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RS-INFO/6000



SINCE 1991 - Montreal/QUE/CAN

Author: Bruno Croft
November 2004

Maintained by Jef Goupil and Bruno Croft



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NOTE: Les francophones: ecrivez-moi en francais svp. **DISCLAIMER:** Use the information in these pages at your own risk! We hope you find them useful, however, these pages are intended for CAC internal use and are not structured according to any corporate standards.



SINCE 1991 - Montreal/QUE/CAN Author: Bruno Croft Maintained by Jef Goupil and Bruno Croft
November 2004



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- [Old link Hardware Manuals](#)
- [pSeries and RS/6000 Installable Options](#)
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- [HMC - Hardware Management Console](#)
- [Cluster Software \(CSM GPFS RSCT and HACMP\)](#)
- [AIX toolbox for Linux applications](#)
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[All 5.2 manuals and releases notes](#)
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- [Cluster 1600 Software Internal](#)

- [PSSP 3.2 Documentation](#)
- [PSSP 3.1.1 Documentation](#)
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*Created: Jun 14 2002 by BJ Croft
Updated: March 2004 BJ Croft*



RSINFO/6000



POWER SUPPLY - FFC 152

Click on any model below

[34XX](#) [6015](#) [6050](#) [6070](#) [6093](#) [6094](#) [7006](#) [7009](#) [7010](#) [7011](#)
[7012](#) [7013](#) [7015](#) [7016](#) [7017](#) [7018](#) [7020](#) [7024](#) [7025](#) [7026](#)
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[7317](#) [7331](#) [7332](#) [9112](#)
[9334](#)

pSeries

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[650-6M2](#) [660-6H1/6M1](#) [680-S85](#) [690-671/681](#)

M/T Model	FRU
34XX All	46G3934 (17G1758)
6015/ 6050/ 6070	See Devices
6093 011/012	6247468 120V
6094 30	6247469 240V 74F3089 100V
7006 41T/41W/ 42T/42W	93H1471, 40H5670, 65G8077
7009 C10	93H1471, 40H5670, 65G8077
7010 120	71F0066

130 43G0322 (00G1274)

140/150 32G1902

160 65G4695

7011 220/230/
250 51G8440 (31F4286)

7012 All 3XX but 91F0844, 71F0068, 81F8282
but 380/390

380/390/39H 52G4764

390 52G4891 Power Switch

397 94H0164

380/390, 52G4764

G02/G30/G40 52G4020

7013 Lower than 570 00G2520, 81F7883, 59F4565
Except 55L

55L 52G7533

570/580 65G7579 <- 51G9708

580H/590/591/
59H/595 8184794, 65G7491

595 40H7442 DC/DC Converter

J30/ J40/ J50 39H9222 < 81H4977

7015 930/950	71F0067 CPU Drawer, Async drawer
970/980	52G1137, 32G2295
97B/98B	65G6995 Stnd AC 88G0053 -48 V DC
990	65G6995
R10	88G0131
R20	88G0134
R24	65G6995 44F5287 SCSI drawer 44F5270
R30 / R40	AC.....11H8275 <-- 11H2709 OR DC -48V 11H8278 <-- 11H2714 11H2712 Cooling Unit

7016 730 71F0069

7017 S70/ S7A	21H7030 AC Bulk 93H3753 AC Box US 93H3754 AC Box WT single phase 93H3682 AC Box WT two phase 07L6658 Bulk Power Supply -48V DC
S70 S7A	07L6656 DC Box (-48V DC) 97H9465 Power Distribution Board 08L1336 I/O Drawer Power Supply

S80/ System 93H3753 AC Box US sigle phase
 S85 Rack 93H3734 AC Box World Trade
 21H7719 AC Bulk Power Supply
 23L7654 Clock/Processor Regulator Card
 23L3603 Memory Regulator Assembly
 23L3393 Power Distribution Harness
 21H7763 Programmable Regulator Assembly

S80/ I/O 09P2935, 08L1336 Power Supply U0.1-V1
 S85 Rack 97H9465 Power distribution board U0.1-X3
 93H6661 Power Distribution Bus Single Phase
 93H6662 Power Distribution Bus 2 or 3 phase
 93H6663 Power Distribution Bus 3 phase

7018 740/741 71F0067

770/771 65G2946, 65G2853

7020 See Devices

7024 E20/ 93H3504, 40H2115
 E30 40H2120 cable with start/stop switch

7025 F30 40H5428 474 Watts
 06H3237 220 Watts

F40 40H5023 575 watts
 12J5701, 06H3237 Optional DASD power
 supply 220 watts
 40H3137 Optional GXT1000 power supply
 226 watts

F50 93H9789, 40H3134

F80/6F1 97P4024, 53P1079, 21P6417, 24L1400

7026 H10 93H8714

H50 93H8958 AC
97H9464 DC -48V #6297 #6298

H70 94H1041 AC
41L4881 DC -48V

H80/6H1 97P4025, 00P3601, CEC AC 645 watts #6282 U1.1
11K0802.
41L5404 CEC DC
97P5253, 00P3918, IO AC 595 watts #6283 U0.X
11K0812
41L5413 IO DC

M80/6M1 53P1040, AC CEC 1100W
24L0728
44L0045 DC CAC 1100W
00P3918, AC IO 595W
53P2399,
11K0812.
41L5413 DC IO

B80 00P2342 AC Redundant
00P2344 DC Redundant
41L5413 DC IO

7028
p610 6C1/6E1 24P6867 - 250 WATT

p630 6C4/6E4 00P5692, 00P4342, 09P5894 - 645 WATT AC #6273

7029
p614 6C3/6E3 97P3867, 53P5617 Base and Redundant

7030 3AT/3BT 52G4764 PS

3CT 52G4764 PS
11H3749 Voltage regulator

7038 6M2 21P4437 AC 1100 Watts

7039 651	44P2134 DCA	
7040 671/681	44P3024, Converter Asm DCA1 to DCA6	U1.18-P1-VX X=1 to 6
	11P3492. Converter Asm DCA1 to DCA6	U1.18-P1-VX X=1 to 6
	11P4741. Converter Asm DCA3 to DCA6	U1.18-P1-VX X=3 to 6 Only
	11P1540	Capacitor Card.
7040/61D	11P3582	DCA
7040-61R/W42	31L8609	Bulk Power Regulator BPR
	11P1598	Bulk Power Controller BPC
	11P1598	Bulk Power Distribution BPD
	11P1598	Bulk Power Enclosure BPE
	44H2790	Integrated Battery Feature IBF
7043 140/240	40H7563	Without Power Factor Correction
140/240	40H7566	With Power Factor Correction (Japan Only)
150	40H7566	With Power Factor Correction - All country
140/150/240	11H6764	power button
140/150/240	73H0438	power switch asm
7044 170	41L5215	
270	24L1968	640W, 97H9337
7046 B50	24L2659	
7133 010/020/ 500/600	88G6202, 32H1698, 88G6364	Fan-and-Power Sup 110/220v
	88G6485 (left or right 010/020)	Back Power Card
	(top or bottom 500/600)	
	07H8989	Power Dist Tray Asm
020/600 Only	32H5750	Fan-and-Power Sup -48v

D40/T40 09L4299 220V AC/DC D40/T40
 05J8390 -48V DC (D40 only)

7203 001 (355MB/670MB)... 00G2960, 81F9128, 23F0047

001 (1GB) 46G3934, 17G1758

7204 320 (320MB) 00G2960, 81F9128, 23F0047

001 (1GB) / 010 46G3934, 17G1758

112/113/114/317/325 87G1642

215/315 2GB Diff 8191380

139 59H3760

7205 311 87G4750

7206 001 46G3934, 17G1758

110 59H3760

7207 001/011 00G2960, 81F9128, 23F0047

012 46G3934, 17G1758

315 87G1642

7208 001 00G2960, 81F9128, 23F0047

011 46G3934, 17G1758

7209 001 46G3934, 17G1758
002 46G3934, 17G1758
003 59H3760, 87G1642

7210 001 46G3934, 17G1758

005 65G7585

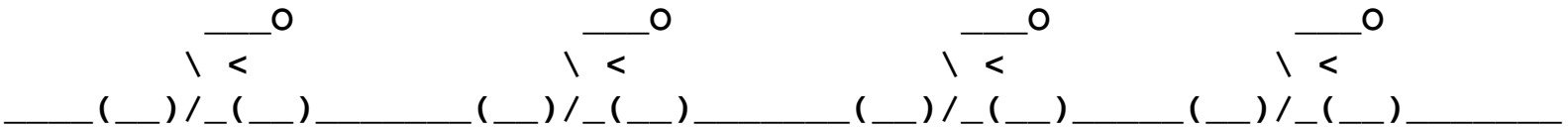
010 87G1642

015 59H3760

7248 ALL 06H8619
7331-205 86G9274
7332 005 46G3934

9112-265 24P6867 250 Watts up to 3
9114-275 53P5617 Base and redundant

9334 010/011/ 07G4833 110v
500/501 07G4834 220v
See FFC 152 for POWER SUPPLY list



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BATTERY

7012 and 7013-not-G____	23F0168
7013-J Series_____	96G4207
7006/7008/7009/7011/ 7024/7025-F40/F50/ 7026-H50/H70	33F8354, 15F8409
7015-ALL.....	02G7237
7025-F80.....	16G8095, 21F9509
Backup Unit.....	59F3876(7015)
7026-6H0/6H1/6M1 H80 and M80.....	16G8095 IO Board Battery
7028-6C4/6E4.....	00P3903 Lithium battery
7043-140/150/240/260/. 7044-170/270 7046-B50/B80	15F8409
7040-681..... 6R1.....	18G8095 44H2790
6015/7020.....	8185417

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Tools Links

- AIX Mega Databases:

North America: [Austin](#) | [Canada](#) | [Dallas](#)

EMEA: [England](#) | [Austria](#)

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- [ASCII / HEXADECIMAL Converter](#)
- [CHRP Analysis: Primary Server](#) | [Backup](#)
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- [Emergency fixes Management](#)
- [FOF](#)
- [GET_VPD](#)
- [Information Center \(LED, IDENTIFIER, FAQs, etc...\)](#)
- [Microcode Discovery Service \(Formerly Inventory Scout \)](#)
- [InfoCenter North America](#)
- [Invscout User's Guide](#)
- [FixDist](#)
- [Prism Document Servers: Dallas](#) | [France](#) | [_](#)
- [_](#)

[Load and Go](#)

- [PFE Austin](#) | [Mainz](#)
- [RSM SSA Tool](#)
- [Service Agent latest code](#)
- [SSA Spare Tool](#)
- [Sense Data Analysis](#)
- [TSKBS: 1](#) | [2](#) | [3](#)
- [Universal Sales Manuals](#)
- [Old Web Error Log Decoder: Dallas](#) | [Mainz](#)

Note: These links are not part of RSINFO web pages and they will open in a separate browser.

Updated: Apr 2004 by Bruno Croft

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InfoCenter

WARNING: In order for the following links to work, IE must be configured with a checkmark under Tools / Advanced / Java (Sun) Use Java 2 v1.3.1)13 for applet. If the links is looping, ensure you don,t have another instance of InfoCenter running. Common links:

- [InfoCenter Home Page](#)
- [Accessing the ASMI using an ASCII console](#)
- [Getting HMC Fixes](#)

Other non InfoCenter links:

Getting HMC Fixes for [p4](#) | [p5](#) servers

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- Download [rsinfo.tar.Z](#) now (Required Winzip to extract on a Win PC)
- Download [tar.exe](#) (Needed to extract rsinfo.tar on a Win PC)
- Download [FC-to-PN](#) for Palm (Requires MobileDB) (Right Click)

WHICH FRU (Field Replacement Unit or Part Number) is the right one ?

By convention, if there are more than one FRU for an item, the current one is the the first one in the list. The other FRUs are obsolete and are there for information only. They are superseded by the first one.

Those superseded FRU are sometimes useful to identify a part or to get the part from stock locations when they still own them.

If you discover a more recent FRU than the one in a multiple list, let me know and I will update it.

Bruno Croft - Creator/Owner of RSINFO since 1991

Sep 2004

Please note that some links have special access requirements

Links Page

RS/6000 LINKS OF INTEREST

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[SSA Manuals](#)

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[7133/7135/7137 Site](#)

[IBM RS/6000 Greenock UK](#)

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- Click on 'AIX Fix Distribution Services'

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[Xyplex](#)

Updated Sep 2004 by Bruno Croft

3151 CONSOLE parameters

ENGLISH

GENERAL	COMMUNICATIONS	KEYBOARD/PRINTER
Machine Mode___IBM3151	Operating mode ECHO	(opt.)Enter__RETURN
Screen_____NORMAL	Line Speed(bps) 9600	Return__FIELD
Row and Col_____24x80	Word length(bits)__8	New Line_____CR
Scroll_____JUMP	Parity_____NO	Send_____PAGE
Auto LF_____OFF	Stop Bit_____1	Insert Char____SPACE
CRT Saver_____ON	Turnaround chr____CR	
LINE WRAP_____ON	(opt.) Interface__RS-232C	
Forcing Insert____LINE	Line Control____IPRTS	
Tab_____FIELD	Break Signal(ms)____500	
	Send Null Suppress__ON	

- 1-Press Ctrl-Setup and ensure the previous parameters
- Use cursor keys to select any field
- Use space bar to display each value
- Press Send to get from a menu to the next one
- 2-Press Send to get to the FUNCTION menu
- 3-Select the SAVE option
- 4-Press the SPACE BAR to save any changes
- 5-Press Ctrl-Setup to exit Setup

```

French Cartr.
94X4123<--
      81X4444
-----
DEC French
38F4375<-----
      94X4117 |
      81X4538 |

```


FRANCAIS

GENERAL	COMMUNICATIONS	CLAVIER/IMPRIMANTE
Mode machine__3151	Mode d'utilisation__ECHO	(opt.) Entree__RETOUR
Ecran_____NORMAL	Vitesse ligne(bps)__9600	Retour ____CHAMPS
Ligne & Colonne_24x80	Longueur caractere__8	Ligne suivante__CR
Defil ecran__PAR SAUT	Parite__NON	Envoi_____PAGE
LF auto_____NON	Bit d'arret_____1	Car. insere_____ESPACE
Protection tube__OUI	Car retournement_CR	
Ret marg auto__OUI	(opt.) Interface RS-232C	
Ins autorise__LIGNE	Controle de ligne__IPRTS	
Tabulation__CHAMPS	Signal intrp(ms)_____500	
	Supp. envoi nuls_____OUI	

1-Press Ctrl-Setup and ensure the previous parameters	French Cartr.
- Use cursor keys to select any field	94X4123<--
- Use space bar to display each value	81X4444
- Press ENVOI to get from a menu to the next one	-----
2-Press ENVOI to get to the FUNCTION menu	DEC French
3-Select the SAUVEGARDE option	38F4375<-----
4-Press the SPACE BAR to save any changes	94X4117 |
5-Press Ctrl-Setup to exit Setup	81X4538



3153

- [3153 Attach and Setup - Quick Summary](#)
- [3153 Console Setup](#)
- [3153 Tips & Info](#)
- [3153 Parts](#)

Oct 31 2001 BJ Croft

FFC

(F A I L I N G - F U N C T I O N - C O D E)

FFCs can be found in the Diagnostics Information manuals.

There are 2 different Diagnostics Information manuals.

One is for old Microchannels RS/6000. The other one is for Multiple Bus Systems (non-Microchannels) RS/6000 and pSeries. You can view or download the Diagnostics Information manuals from the [Information Center](#).

Chapter 31 and 41 are dedicated to the various FFC

Sep 2004 - Bruno Croft

SRN

(S E R V I C E - R E Q U E S T - N U M B E R)

SRNs are part of the Diagnostics Information manuals.

There are 2 Diagnostics Information manuals.

One is for old Microchannels RS/6000. The other one is for Multiple Bus Systems (non-Microchannels).

You can view or download the Diagnostics Information manuals from the [Information Center](#).

If the SRN that you are looking for is not found in the above manuals, it can be a SRN for specific environment like SSA for example. SSA SRN can be found in the various models of the SSA Service guides. See the [SSA Documentation web site](#)

Sep 2004 - Bruno Croft

Feature Code VS Part Number
Thanks to Hartmut Lonzer for his contribution to this section

IMPORTANT NOTES :

- The following page should be used for emergency situation only. This
 - The proper way to get all components of a feature code is to ORDER the feature code number from MKT. It may fail to contain some part of the entire feature code. It should not be used as a common practice.
- There is no 1 to 1 relationship between a FC and FRU. For example: order the appropriate number of FRU to match the FC description.**

How to search: Please use the FIND function of your browser to find a specific FC or FRU number

#0503 -----> E41004-PORT, 8-INIT / 09L2061 SSA ADAPT / 89H5651 16 MB DRAM
#0505 04N6759 4WAY 450MHZ 4MB L2
#0508 04N6772 6WAY 500MHZ 4MB L2
#0509 04N6931 500MHZ CPU 4WAY FACT ONLY
#0701 59H3161 7 GB TAPEDRIVE DUAL ENDED / GRND STRIP=87G1880
#0702 59H2823 DUAL 4GB DRIVES
#0703 59H2842 7331:305 tape library single 20GB drive
#0704 59H2842 7331:305 tape library dual 20GB drive
#0888 92F4520 Token Ring 4/16MB for 7546-01
#1000 Order Validation Code
#1001 73H4802 SUPPORT PROCESSOR OPTION
#1007 -----> EXP.FRAME -135 MHZ WIDE NODES / NO SINGLE P/N
#1008 -----> EXP.FRAME -120 MHZ THIN NODES / NO SINGLE P/N
#1008 86F0921 RISC 6000 ATTACHMENT KIT
#1010 8184692 SOFT TOUCH KEYBOARD US ENG
#1011 46G4232 SPIT ASM 1
#1020 21H4148 1GB DISK DRIVE (MODEL 412/512)
#1030 21H4149 2GB DISK DRIVE (MODEL 413/513)
#1040 21H4150 4GB DISK DRIVE (MODEL 414/514)
#1080 21H4151 9GB DISK DRIVE MODULE
#1085 21H4151 9GB DISK DRIVE MODULE
#1101 81F9038 NON LOCKING SWITCH SELECT
#1110 8184692 SOFT TOUCH KEYBOARD US ENG
#1241 1 of 2 F/W SCSI INTERNAL PCI ADAPTER CABLE (WIDE NODE ONLY)
#1241 2 of 2 SCSI JUMPER=08J6111 / 48VPWECBL=11J5189
#1245 26H7359 HIGH AVAILABILITY CONTROL WORKSTATION CONNECTIVITY
#1500 21H4203 ENHANCED CONTROLLER
#1511 74F3131 4-button cursor and 93H7716
#1512 74F3132 6-button cursor

#1901 86F1119 OPTICS ADAPTER
 #1902 65G5292 OPTICS DAUGHTER CARD, 1-PORT, 1063MBPS (500M)
 #1903 65G5293 OPTICS DAUGHTER CARD, 1-PORT, 1063MBPS (10KM)
 #1904 73H2503 FIBRE CHANNEL ADAPTER/1063
 #1906 40H2648 Fiber Channel/266 Adapter Type 8-A
 #2001 11J3934 TWO 62MHZ THIN NODES EXPANSION DRAWER
 #2001 86F0927 ADAPTER CARD FEATURE OPTION NUMB 46G4151
 #2002 46G4157 RISC 6000 ATT. KIT CABLE SCSI
 #2002 1 of 3 TWO 66MHZ THIN NODE EXPANSION DRAWER
 #2002 2 of 3 PLANNARBOARD=07L9622 / SUP CARD=46H9834
 #2002 3 of 3 ETH RISER=73H1668 / CPU CARD=93H4897
 #2003 1 of 3 ONE 66MHZ WIDE NODE EXPANSION DRAWER CABLES:
 #2003 2 of 3 CPU=46H9312 / I/O=54G3238 / DASD=54G3240 / SUPE=54G3241
 #2003 3 of 3 SWITCH=54G3242 / ASM=54G3243/44/46
 #2004 46G4219 CABLE
 #2005 1 of 2 DRAWER WITH 77M HZ DI NODE CARD PWR=07H6410 CIRK BRKR=07H6411
 #2005 2 of 2 FAN HI=11J3942 CPU CARD=93H4880
 #2005 75G4982 7137: DEC ADAPT
 #2006 -----> EXP. DRAWER - 604 HIGH NODE / NO SINGLE P/N
 #2006 16G8467 CLEAN CARTRIDGE
 #2006 75G4987 7137: SUNADAPTER
 #2006 1 of 5 9076: C4D CPU PLANAR=09J4712 / I/O CRD=35H8682
 #2006 2 of 5 LATERAL PLANAR 1=93H7764 / NODE SUPERVISOR=46H9738
 #2006 3 of 5 POWER SUPPLY=93H6192 / LATERAL PLANAR 2=40H7014 / SIB=40H7012
 #2006 4 of 5 I/O PLANAR=35H8834 / FLEX 1 CBL=94H0314 / FLEX 2 CBL=94H0315
 #2006 5 of 5 FLEX 3 CBL=94H0316 / FLEX 4 CBL=94H0317 / SYSTEM PLAN=35H8778
 #2007 -----> ONE 135MHZ WIDE NODE EXPANSION DRAWER / NO SINGLE P/N
 #2007 21H4039 7137: HP ADAPTER 4M CABLE=P/N 75G5028
 #2007 86G9310 10 CARTRIDGE MAGAZINE
 #2008 -----> TWO 120MHZ THIN NODE EXPANSION DRAWER / NO SINGLE P/N
 #2008 75G5028 7137: ATTACHMENT TO HEWLETT-PACKARD 9000 SERIES 800 4M CABLE
 #2009 87G1603 DATA CARTRIDGE
 #2009 1 of 5 9076: X4D CPU PLANAR=94H0389 / I/O CRD=09J4760
 #2009 2 of 5 LATERAL PLANAR 1=93H7764 / NODE SUPERVISOR=46H9738
 #2009 3 of 5 POWER SUPPLY=93H6192 / LATERAL PLANAR 2=40H7014 / SIB=40H7012
 #2009 4 of 5 I/O PLANAR=35H8834 / FLEX 1 CBL=94H0314 / FLEX 2 CBL=94H0315
 #2009 5 of 5 FLEX 3 CBL=94H0316 / FLEX 4 CBL=94H0317 / SYSTEM PLAN=19H0035
 #2010 75G5028 SUN SPARC SYSTEMS ATTACHMENT KIT 4M CABLE
 #2011 44H3620 7336: BAR CODE READER
 #2011 85G0157 THINKPAD 850: 810MB SCSI-2 HDD
 #2011 86G9336 7331: OPT. BARCODEREADER
 #2013 87G4886 12 CARTRIDGE MAGAZINE WITH STAND P/N 87G5045
 #2014 87G4886 12 CARTRIDGE MAGAZINE
 #2015 87G4885 ADDITIONAL 4 CARTRIDGE MAGAZINE
 #2016 59H2898 5-8MM AME CLEANER CARTRIDGES
 #2021 30H1471 1.2GB SCSI-2 HDD IBM THINKPAD POWER SERIES 850
 #2022 1 of 2 EXPAN DRAWER 2-160MH THIN NODE
 #2022 2 of 2 160MHZ PLANAR=31L7146 S6.0 BASE=21L3218
 #2048 73G2053 7020: Token-ring ISA Adapter

#2050 -----> 332MHZ SMP SINGLE THIN NODE / NO SINGLE P/N
#2051 -----> 332MHZ SMP WIDE NODE / NO SINGLE P/N
#2101 36H9865 CONNECT UPS (TWISTED PAIR ETHERNET ADPTR 5-15 LINE CORD)
#2103 36H9866 CONNECT UPS (TWISTED PAIR ETHRNET ADPT IEC320 LINECORD)
#2110 00G1879 7010: 30 MB FILE / FLEX CABLE=00G2689
#2111 70G9858 PCI SCSI ADAPT TO 2-PORT,8-BIT SE EXT DEV.CBL/TERM=52G4260
#2112 70G9858 PCI SCSI ADAPT TO 2-PORT,8-BIT DIF EXT DEV.CBL/TERM=87G1356
#2113 52G0174 PCI SCSI ADAPT TO SINGLE PORT 8BIT SE EXT DEV.CBL/TERM=52G4260
#2114 52G0173 PCI SCSI ADAPT 16-BIT DIFFERENTIAL EXT Y CABLE / TERM=61G8324
#2114 21H4029 7137: CABLE HACMP RS/6000 ATTACHMENT
#2115 70G9857 PCI SCSI ADAPT TO 2-PORT, 16-BIT SE EXT DEV.CBL / TERM=92F0432
#2116 70G9857 PCI SCSI ADAPT TO 2-PORT, 16-BIT DIFF EXT DEV.CBL/TERM=61G8324
#2117 52G0173 PCI SCSI ADAPT 16-BIT SE EXTERNAL Y CABLE / TERM 16BIT=92F0432
#2118 01K6497 CONVERTER CABLE,VHDCI TO P,MIN I-68PIN TO 68PIN,0.3M
#2120 53F3425 120MB DISK DRIVE / FRU RISER 81F8900
#2121 1 of 2 160MB SCSI DSK DRV=81F8085/SCSI CBL=31F4284/SCSI POWCB=31F4285
#2121 2 of 2 SCSI BRD=6279212 FILE MOUNT=81F9142
#2123 00G2603 160mb Direct Attach Disk Drive
#2201 36H9863 CONNECT UPS (THINWIRE ETHERNET ADAPTER 5-15 LINE CORD)
#2201 88G0324 4 MB TEXTURE MEMORY
#2202 88G0324 4 MB TEXTURE MEMORY
#2203 88G0324 4 MB TEXTURE MEMORY
#2203 36H9864 CONNECT UPS (THINWIRE ETHERNET ADAPTER IEC320 LINE CORD)
#2204 88G0319 COMPOSITE VIDEO OUTPUT OPTION
#2205 88G0320 COMPOSITE VIDEO INPUT OPTION
#2300 53F3427 355MB PORTABLE DISK DRIVE MOD
#2301 40H1654 TOKEN RING NETWORK ADAPTER (5-15 LINE CORD)
#2301 88G0325 16 MB TEXTURE MEMORY
#2302 88G0325 16 MB TEXTURE MEMORY
#2303 88G0325 16 MB TEXTURE MEMORY
#2303 40H1653 TOKEN RING NETWORK ADAPTER (IEC320 LINE CORD)
#2310 53H3429 640MB File
#2311 53H3429 640MB File
#2312 46G2388 7203: 1GB PORTABLE DISK MODULE
#2313 74G6996 2.2 GB DISKDRIVE
#2314 74G8825 4.5 GB PORTABLE MODULE
#2315 59H6926 9.1 GB PORTABLE MODULE
#2320 46G2388 7203: 1GB PORTABLE DISK MODULE
#2340 74G8825 4.5 GB PORTABLE MODULE
#2350 59H6926 9.1 GB PORTABLE MODULE
#2390 51G8237 540MB SCSI Disk Drive & CABLE 43G0779
#2390 43G0656 Multi-Protocol Communication Adapters MP/A
#2391 51G8237 400mb-to-540mb SCSI-2 Disk Drive Select
#2392 51G8237 160mb-to-540mb SCSI-2 Disk Drive Select
#2392 43G0656 Multi-Protocol Communication Adapters MP/A
#2393 06H9543 7248: 540MB SCSI HDD
#2393 06H9543 360MB SCSI SATSUMA2 HDD
#2394 06H9543 540MB SCSI Disk Drive & CABLE 43G0779
#2394 43G0656 Multi-Protocol Communication Adapters MP/A

#2395 82G5933 7248: 720MB SCSI HDD
#2397 52G0124 1080MB SCSI-2 DISK DRIVE (PEGASUS)
#2397 82G5933 720MB SCSI SATSUMA4 HDD
#2398 92F0428 1 GB SCSI SPITFIRE HDD
#2399 92F0440 2 GB SCSI ALLICAT HDD
#2400 32G0258 M-Video Capture Adapter NTSC / CABLE=92F3713 / CABLE=92F3714
#2401 32G0263 M-Video Capture Adapter PAL
#2402 51G8538 Network Terminal Accelerator 256 sessions
#2403 51F8539 Network Terminal Accelerator 2048 sessions
#2404 88G3711 Ultimedia Video I/O Adapter Type 7-5
#2405 88G3717 JPEG Compression Option for Ultimedia Video Adapter
#2408 93H8406 PCI Adapter SCSI-2 Single-Ended F/W Type 4-A
#2409 93H8407 PCI Adapter SCSI-2 Differential F/W Type 4-B
#2410 00G0972 Internal Terminator Card-Edge included with #2410
#2410 11H4779 SCSI-2 High Perf External I/O Controller 52G5484, 52G1171
#2412 93H7896 ENH SCSI-2 F/W ADPTR/A / TERMRESIS=42G3326
#2412 88G5749 7131: Cable SCSI Diff F/W Ctrl-to-tower 4.5m
#2415 88G5749 7131: Cable SCSI Diff F/W Ctrl-to-tower 4.5m
#2415 93H8814 SCSI-2 FAST/WIDE ADAPTER/A (CORVETTE) Type 4-7
#2416 88G5749 7131: Cable SCSI Diff F/W Ctrl-to-tower 4.5m
#2416 11H7660 SCSI-2 DIFF F/W ADAPTER/A (CORVETTE) Type 4-6
#2417 11H7660 SCSI-2 DIFF F/W ADAPTER/A (CORVETTE) Type 4-6
#2418 93H7896 ENH SCSI-2 F/W ADPTR/A / TERMRESIS=42G3326
#2419 93H7896 ENH SCSI-2 F/W ADPTR/A / TERMRESIS=42G3326
#2420 11H2447 SCSI-2 Differential High-Performance External I/O Ctrl
#2421 04N4265 4-DROP SCSI INT CABL
#2422 52G7348 SCSI-2 Differential Y-Cable (Include terminator 52G7350)
#2423 52G7349 SCSI-2 Differential System-to-System Cable
#2424 52G4291 SCSI-2 Fast/Wide Differential System-to-system Cable 0.6m
#2425 52G4233 SCSI-2 Fast/Wide Differential System-to-system Cable 2.5m
#2426 52G4234 SCSI-2 Fast/Wide Differential Y-Cable 0.94m 16-Bit Wide Bus
#2427 52G4349 SCSI-2 Differential Y-Cable 0.765m - Narrow Bus=52G7350
#2430 52G7451 SCSI Internal 6-drop cable narrow including terminator 1.86m
#2431 52G4430 7013-5XX: SCSI Int 6-drop cable with terminator, Wide bus 1.57m
#2432 93H4341 SCSI-2 BACKPLANE TO BLACKPLANE
#2434 65G8085 7006/7009: SCSI Internal 3-drop cable wide bus 0.77m
#2435 52G9501 Cable Adapter-to-Device with 2-connector 1.5 - Wide Bus
#2435 88G5757 9334: Cable Adapter-to-9334-001 8-bit
#2436 52G4337 Cable Adapter-to-Device with 2-conn Wide Bus - 1.5m
#2437 92F2559 Cable System-to-Device with 1-connector 1.5 - Narrow Bus
#2438 88G3636 Cable Adapter-to-Device with 2-conn Narrow Bus - 1.5m
#2439 52G4231 Cable Adapter-to-single-connector device. 1.5m
#2440 11H3928 SCSI CABLE ASM (4-DROP 16BIT) / Terminator = P/N 88G3977
#2441 19H0398 SCSI CABLE TO INTERNAL DEVICE
#2442 12H1169 7024: Internal SCSI cable 4-drop / TERMINATOR=88G3977
#2442 12H1169 Cable SCSI2 ADPT-TO-DEV INT 4-CONN 16-BIT TERM=88G3977
#2443 40H3128 Cable INT 1DROP SCSI TO DASD 6-PAK / TERMINATOR 88G3977
#2444 40H3128 CABLE SE SCSI-2 I/O PLANAR to DEV INTERNAL 7-CONN 8-BIT
#2445 93H6151 INTERNAL ULTRA SCSI CABLE ASSEMBLY

#2446 06H6876 SCSI-2 16-BIT CABLE SUPPORTING 6-PK / TERMINATOR = 88G3977
#2447 06H6876 16-BIT PCI SCSI SE ADAPTER TO 6 SCSI BAYS CABLE
#2448 88G3977 TERMINATOR (16-BIT SCSI BUS)
#2449 35H8668 SCSI-B BUS SUPPORT MODULE
#2450 93H6308 CABLE ASSEMBLY SSA 6-PACK TO PLANAR
#2451 93H4341 SSA 6-pack Daisy-chain cable asm backplane-to-backplane
#2452 59H7210 SSA Blank disk drive module
#2453 93H9822 SSA Cable asm internal backplane-to-bulk connector (SSA external)
#2454 1 of 2 BK-PLN/BLKHD/EXTPORT / 08L7908 SSA CABLE / 24L1695 CONN COVER
#2454 2 of 2 56F0346 SCREW / 92F1294 M3.5 SCREW / 93H4339 CBL BKPL
#2455 1 of 2 SSA CARRIER FOR UPGD / 05J7982 SPRNG FRNT
#2455 2 of 2 05J7983 SPRNG REAR / 05J7985 6-32X187 / 24L0924 DASD TRAY
#2456 11P1373 LC-SC Fibre Channel Converter Cable
#2490 43G1842 7011: First 200MB SCSI-2 Disk Drive
#2491 43G1842 7011: First 200MB SCSI-2 Disk Drive
#2492 43G1842 160 to 200 MB SCSI-2 Disk Drive Select
#2493 08L1319 SCSI-2 F/W PCI RAID ADAPTER
#2494 21H8979 ULTRA-SCSI / 32MB CACHE
#2495 43G1842 7011: First 200MB SCSI-2 Disk Drive
#2496 43G1842 7011: First 200MB SCSI-2 Disk Drive
#2498 1 of 2 ULTRA3 RAID 00N9561 BATT JAPAN / 19K0561 DAUGHTER C
#2498 2 of 2 37L6892 BASE CARD / 37L6902 DAUGHTR CD / 37L6903 BATTERY
#2498 00N9561 BATT JAPAN 7028 6C1
#2500 1 of 2 355MB SCSI Drive (additional)=53F3427
#2500 2 of 2 JUMPER=61X7052 / HD LGC CD=6373521 / CABLE=71F1369
#2502 07N3675 Disk 9.1GB Ultra SCSI 1" 7200 RPM
#2505 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#2506 74G8824 DISK DRIVE 2.2GB / DASD TRAY=06H8631
#2507 74G8824 2.2GB DRIVE(S)
#2508 1 of 2 SINGLE ENDED TO DIF CARD REQUIRED W/MULTIPLE TOWERS
#2508 2 of 2 SE-DE CARD=27H0838 STANDOFF=P/N=27H0863
#2509 93G2972 DISK 9.1GB NON-HOT SWAPPABLE / CARRIER=06H9389 MOD 105
#2510 53F3429 670MB SCSI Disk Drive / JUMPER=61X7052 / HD LGC=6373521
#2510 99F7897 BASE TOWER W/2 1.1GB DISK DRIVES
#2511 99F7897 BASE TOWER W/2 2.2GB DISK DRIVES
#2511 1 of 2 670MB SCSI Disk Drive 355 to 670MB SCSI Disk=53F3429
#2511 2 of 2 JUMPER=61X7052 / HD LGC=6373521
#2512 99F7898 BASE TOWER W/2 4.5GB DISK DRIVES
#2513 21H8734 7131-405 SSA - 9.1GB HOT SWAPPABLE DISKDRIVE
#2515 36G6930 DISK DRIVE 1.0GB
#2516 52G0907 540 SCSI-2 REMOVABLE DISK DRIVE
#2518 90F0894 DISK DRIVE 2GB SCSI-2 (ALLICAT)
#2519 52G0909 810 MB REMOVABLE DISK DRIVE
#2520 52G0909 810 MB REMOVABLE DISK DRIVE
#2529 45G9495 857MB SCSI DISK WITH FRAME
#2529 45G9502 857MB SCSI DISK WITHOUT FRAME
#2530 45G9495 857MB SCSI DISK WITH FRAME
#2531 45G9495 857MB SCSI DISK WITH FRAME 355 to 857mb SCSI Disk
#2532 45G9495 857MB SCSI DISK WITH FRAME 640 to 857mb SCSI Disk

#2533 45G9495 857MB SCSI DISK WITH FRAME 670 to 857mb SCSI Disk Select
#2534 45G9495 857MB SCSI DISK WITH FRAME 800 to 857mb SCSI Disk
#2538 93X0961 320MB FILE
#2539 95X2498 INTERCABLE
#2540 93X0961 320MB FILE
#2541 93X0961 320MB FILE 120 to 320mb SCSI Disk
#2542 93X0961 320MB FILE 640MB SCSI Disk Drive Pair
#2543 53H3427 355 TO 640 MB SCSI DISK SELECT / JUMPER=61X7052
#2545 88G2980 Disk Drive SCSI-2 344MB
#2546 88G2978 250MB SCSI-2 REMOVABLE DISK DRIVE
#2547 88G2980 Disk Drive SCSI-2 344MB
#2548 90F0894 2GB SCSI2 DISK ALLICAT
#2549 36G6930 DISK DRIVE 1.0GB
#2550 1 of 2 1GB SCSI DASD CORSAIR1/SCSI CBL=43G0779/HARDFILE=36G6930
#2550 2 of 2 CORS LOG=55F5000
#2551 1 of 2 1GB SCSI DASD CORSAIR1/SCSI CBL=43G0779/HARDFILE=36G6930
#2551 2 of 2 CORS LOG=55F5000
#2552 1 of 2 1GB SCSI DASD CORSAIR1/SCSI CBL=43G0779/HARDFILE=36G6930
#2552 2 of 2 CORS LOG=55F5000
#2553 1 of 2 1GB SCSI DASD CORSAIR1/SCSI CBL=43G0779/HARDFILE=36G6930
#2553 2 of 2 CORS LOG=55F5000
#2554 1 of 2 1GB SCSI DASD CORSAIR1/SCSI CBL=43G0779/HARDFILE=36G6930
#2554 2 of 2 CORS LOG=55F5000
#2555 36G6930 1GB SCSI-2 Disk Drive
#2556 36G6930 DISK DRIVE 1.0GB
#2557 36G6930 DISK DRIVE 1.0GB
#2558 36G6930 DISK DRIVE 1.0GB
#2559 36G6930 DISK DRIVE 1.0GB
#2560 00G1948 DISK DRIVE SCSI 400mb Turbo Lightning
#2561 43G2406 258MB INTERN.SCSI-2 DISK DRIVE (WAKASA)
#2562 00G1948 800mb SCSI Disk Drive Pair
#2563 00G1948 160 to 400MB SCSI Disk Drive Select
#2564 00G1948 160 to 400MB SCSI Disk Select
#2565 6374682 1GB Differential Disk Drive (9334-011/501)
#2570 52G0061 1,37GB SCSI Disk Drive (Mod 52H,53H,580,950,970 and 980)
#2572 52G0061 400mb to 1,37gb SCSI Disk
#2573 52G0061 670mb to 1,37gb SCSI Disk Select
#2574 52G0061 800mb to 1,37gb SCSI Disk
#2575 52G0061 857mb to 1,37gb SCSI Disk
#2578 52G0061 1.3 GB WANNAMINGO 5.25" SCSI / LOGIC=31G9756
#2580 90F0894 DISK DRIVE 2GB SCSI-2
#2581 90F0894 DISK DRIVE 2GB SCSI-2
#2582 90F0894 DISK DRIVE 2GB SCSI-2
#2583 90F0894 DISK DRIVE 2GB SCSI-2
#2583 90F0894 DISK DRIVE 2GB SCSI-2
#2585 86F0119 2GB SCSI-2 Differential Disk Drive
#2586 86G9101 2GB SCSI-2 FAST/WIDE DISK DRIVE
#2588 86F0119 2 x 1.0GB to 2 x 2.0GB SCSI-2 Differential Disk Drive
#2589 90F0894 DISK DRIVE 2GB SCSI-2

#2590 36G0454 2,4GB SCSI-2 Disk Drive (Mod 52H,53H,550,560 and 580)
#2592 36G0454 400MB to 2,4GB SCSI-2
#2593 36G0454 800MB to 2,4GB SCSI-2
#2594 36G0454 2GB to 2,4GB SCSI-2
#2596 36G0454 2.4GB SCSI 2 DISKDRIVE / 670MB
#2600 1 of 3 INTERNAL CDROM DRIVE CDROM FRU=88G3929
#2600 2 of 3 SCREW=0010170/1621170/42F7304 CLEAN KIT=31F4232
#2600 3 of 3 LIS DEVICE=53F3610 BEZEL KIT=70F9689
#2601 88G3929 Internal CD-ROM CPU Drawer 930
#2601 06H2150 CD-ROM 660MB 2.25" SLIMLINE
#2602 73H1513 INTERNAL CD ROM
#2603 73H1513 INTERNAL CD-ROM-2
#2604 73H1513 BANDERA 600MB SCSI-2 DOUBLE SPEED TRAY LOADING CD-ROM
#2606 73H1513 INTERNAL CD ROM DRIVE
#2607 19H0212 CRU FOR INTERNAL CD ROM ATLANTIS / SCSI CDROM=73H1513
#2608 19H0212 CRU FOR INTERNAL CD ROM ATLANTIS / SCSI CDROM=73H1513
#2609 19H0347 CRU FOR CD ROM BANDERA / CRU NUECES=19H0347
#2610 52G3400 3.5 INCH 2.88MB DISKETTE DRIVE / Cable = P/N 31F4283
#2612 11J8338 1.44 MB DSKT DR / CABLE = P/N 65G4531 / BEZEL = P/N 65G4532
#2613 73H1513 BANDERA 600MB SCSI-2 DOUBLE SPEED TRAY LOADING CD-ROM
#2614 73H1513 BANDERA 600MB SCSI-2 DOUBLE SPEED TRAY LOADING CD-ROM
#2615 40F9781 External 5.25-Inch Diskette Drive Attachment Cable
#2616 1 of 3 4X CD-ROM DRIVE ASM=73H1513 / CLEAN KIT=31F4232
#2616 2 of 3 ADP 50/60=06H6890 / SCREW=1621176 / JUMPER=1675209
#2616 3 of 3 SCSI CDROM=73H1513 / TEST DISK=81F8902
#2617 1 of 3 4X CD-ROM DRIVE ASM=73H1513 / CLEAN KIT 31F4232
#2617 2 of 3 ADP 50/60=06H6890 / SCREW=1621176 / JUMPER=1675209
#2617 3 of 3 SCSI CDROM=73H1513 / TEST DISK=81F8902
#2618 73H2601 8X SPEED TRAY LOADING CD-ROM
#2619 1 of 2 INTERNAL 12-20X, CD-ROM WITH 16-BIT CONNECTOR=93H8055
#2619 2 of 2 BRACKET=07L7341/SCREW=33G3907/BEZEL=93H8048/CLEAN KIT=31F4232
#2620 71F1042 Internal 5.25-inch Diskette Drive
#2621 73H1513 4X CD-ROM DRIVE ASM / CLEAN KIT=31F4232
#2623 04N5967 DVD Drive Black
#2624 97H7610 32X (MAX) SCSI-2 CD-ROM DRIVE / BLACK BEZL=97H7611
#2627 04N5968 DVD Drive White
#2628 09P2645 Internal Auto-docking CD-ROM Drive
#2630 21H5155 INTERNAL 1.2 GB 1/4 INCH CATRIDGE TAPE DRIVE
#2631 21H5155 INTERNAL 1.2 GB 1/4 INCH CATRIDGE TAPE DRIVE
#2632 19H0210 CRU FOR 5 1/4 TAPEDRIVE
#2636 16G8423 150MB Internal 1/4-inch Tape Drive
#2637 16G8423 150MB Internal 1/4-inch Tape Drive CPU Drawer 930
#2638 21H5155 1.2MB Internal 1/4-inch Tape Drive
#2639 07L9009 ULTIMEDIA VIDEO CAPTURE ADAPTE R/S-PCI
#2640 00P4775 IDE DVD-ROM Drive
#2643 40H3483 POWER GXT500 GRAPHICS ADAPTER
#2644 40H3483 POWER GXT500 GRAPHICS ADAPTER
#2645 40H3477 POWER GXT500D GRAPHICS ADAPTER
#2646 40H3477 POWER GXT500D GRAPHICS ADAPTER

#2647 52G0733 7248: VIDEO CAPTURE ADAPTER ENHANCEMENT ADAPTER PN=11H5994
 #2648 8184190 7248: GXT150P ADAPTER / VIDEOCABLE=96H2688 / 96G2689
 #2649 93H5248 ULTIMEDIA VIDEO CAPTURE ADAPTER - PCI
 #2650 93H1527 GXT150M Graphics Subsystem
 #2657 11H6095 PCI S15 GRAPHICS ADAPTER (WEITEK P9100)
 #2660 88G2479 POWER GXT150L GRAPHIC ADAPTER
 #2665 88G2547 ULTIMEDIA POWER GXT155L
 #2700 1 of 2 4-port Multiprot Com Ctrl=52G4322 (8184299/40F9897 required)
 #2700 2 of 2 WRAP 78=40F9902 / 4P MPA-D=11H5676 / MICROCODE=84F7305
 #2701 33F8967 Base card for 4-PORT ISA - Also needs daughter 84F7540
 #2702 71F0162 Multiprot Attachment Cable V.35 6.5ft 34 PIN/V.35WRAP=71F0163
 #2703 1749352 Multiprotocol Attachment Cable V.35 (FRANCE)
 #2704 71F0164 Multiprotocol Attachment Cable X.21 10ft
 #2705 40F9897 4-Port Multiprot Interf. Cable 10ft Cable-T/CABLE ASM=53F2624
 #2706 71F0165 Multiprotocol Attachment Cable EIA-232/V.24 10ft
 #2707 93H5497 EICON ISDN DIVA MCA ADAPTER / ISDN CABLE = P/N 93H5522
 #2708 93H5839 EICON ISDN DIVA PRO 2.0 PCI ADPT / ISDN CABLE=93H5522
 #2709 87H3518 ARTIC960HX 4-PORT T1 RJ45 CBL
 #2710 87H3515 ARTIC960HX 4-PORT E1 RJ45 CBL
 #2711 1 of 3 GT4XI 8BIT GRAPHIC ADAPTER / PERDERNALES 4=11H4912
 #2711 2 of 3 2POS CONN.=51G9225 / RGB CABLE EXT=58F2903
 #2711 3 of 3 PED GRAPHI=88G3988 / P6 PROC=40H3446
 #2712 1 of 2 GT4XI 24BIT GRAPH ADPT PEDERNALES4=11H4913 / PED4 P6=40H3446
 #2712 2 of 2 RGB CB EXT=58F2903 / 2POS CONN=51G9225
 #2712 40H3446 PED4 P6 POWER GT4XI 24BIT GRAPH ADPTR (PEDERNALES 4)
 #2712 67G3361 2.2GB DISK DRIVE
 #2713 1 of 2 GT4I 24BIT GRAPHIC ADAPTER (PEDERNALES4) GR/CRD 24B=11H4913
 #2713 2 of 2 PED4 P2=40H3441 / RGB CB EXT=58F2903 / 2POS CONN=51G9225
 #2713 11H4913 Gt4i Graphics adapter / PROCESSOR=52G4113
 #2713 67G5069 THREE 1.3GB SCSI-2 DISK DRIVE
 #2714 1 of 3 GT4XI 8BIT GRAPHIC ADAPTER PERDERNALES 4=11H4912
 #2714 2 of 3 2POS CONN.=51G9225 / RGB CABLE EXT=58F2903
 #2714 3 of 3 PED GRAPHI=88G3988 / P6 PROC=40H3446
 #2714 88G7057 4.0 GB DISK DRIVE
 #2715 1 of 2 GT4XI 24BIT GRAPH ADPT PEDERNALES4=11H4913 / PED4 P6=40H3446
 #2715 2 of 2 RGB CB EXT=58F2903 / 2POS CONN=51G9225
 #2715 67G5069 FIVE 1.3GB SCSI-2 DISK DRIVES
 #2716 1 of 3 GT4XI 8BIT GRAPHIC ADAPTER PERDERNALES 4=11H4912
 #2716 2 of 3 2POS CONN.=51G9225 / RGB CABLE EXT=58F2903
 #2716 3 of 3 PED GRAPHI=88G3988 / P6 PROC=40H3446
 #2717 1 of 2 GT4I 24BIT GRAPHIC ADAPTER (PEDERNALES4) GR/CRD 24B=11H4913
 #2717 2 of 2 PED4 P2=40H3441 / RGB CB EXT=58F2903 / 2POS CONN=51G9225
 #2718 1 of 2 GT4XI 24BIT GRAPH ADPT PEDERNALES4=11H4913 / PED4 P6=40H3446
 #2718 2 of 2 RGB CB EXT=58F2903 / 2POS CONN=51G9225
 #2719 1 of 2 GT4I 24BIT GRAPHIC ADAPTER (PEDERNALES4) GR/CRD 24B=11H4913
 #2719 2 of 2 PED4 P2=40H3441 / RGB CB EXT=58F2903 / 2POS CONN=51G9225
 #2720 67G5070 2.0GB SCSI-2 DISK DRIVE
 #2720 81F9003 FDDI LAN Adapter Single
 #2722 1 of 2 FDDI LAN ADAPTER DUAL RING=81F9014

#2722 2 of 2 CROSSOVER=81F9012 / HANDLE=90X6626 / HANDLE=90X6627
#2722 81F9004 FDDI Dual Ring Upgrade Kit Adapter
#2723 1 of 2 FDDI-LAN ADPT Fiber Dual Ring Upgrade
#2723 2 of 2 DUAL AD=43G0856 / DIAG=00G2688 / MCODE=8184760 / WRAP=92F9003
#2723 67G5070 FIVE 2.0GB SCSI-2 DISK DRIVES
#2724 1 of 2 FDDI-Fiber Single Ring Adapter=65G1879
#2724 2 of 2 DIAG=00G2688 / MCODE=8184760 / WRAP=92F9003
#2725 1 of 2 FDDI-STP Single Ring Adapter
#2725 2 of 2 FDDI TWIST=65G1878 / DIAG=00G2688 / MCODE=8184760
#2725 67G5070 FIVE 2.0GB SCSI-2 DISK DRIVES
#2726 43G0876 FDDI-STP Dual Ring Adapter
#2731 8185291 E15 GRAPHICS ADAPTER (ENTRY)
#2732 11H6095 S15 GRAPHICS ADAPTER
#2734 40H7496 KEYBOARD/MOUSE ATTACH-CARD
#2734 8184190 IBM POWER GXT150P GRAPHICS
#2735 51G9819 High-Performance Parallel Interface (HIPPI)
#2736 11H3890 KEYBRD/MOUSE ATTCH RISER
#2737 09P2470 4P USB ADP
#2741 73H3405 SYSKONNECT FDDI-LP SAS FOR IBM RS/6000 / P201 DISP=96G2183
#2742 73H3401 SYSKONNECT FDDI-LP DAS FOR IBM RS/6000
#2743 73H3413 SYSKONNECT SK-NET FDDI-UP SAS FOR IBM RS/6000
#2751 51H8700 S/390 ESCON CHANNEL PCI ADAPTER
#2752 54G3360 BMCA NODE TO NODE Y CABLE
#2753 68F7211 BLOCK MULTIPLEXER CHANNEL ADPT Y CABLE / TERMINATOR=6473048
#2754 43G0235 S/390 ESCON Channel Emulator
#2755 02G7425 Block Multiplexer Channel Adapter
#2755 1 of 2 370 PARALLEL CHANNEL=25F9401
#2755 2 of 2 SPACER=40F9969 / WRAP=71F1184 / BUS=8575337 / TAG=8575338
#2756 43G0235 ESCON Control Unit Adapter
#2757 92F6697 System/370 Block Multiplexer Channel Adapter Cable 6ft
#2758 25F9401 System/370 Block Multiplexer Channel Cable Interf Assembly
#2759 65G1828 S/370 Channel Emulator/A Adapter - includes cable 68F7209
#2760 71F1224 7016: Grayscale Graphics Display Adapter / RGB CB EXT=58F2903
#2766 8184016 GTX100 GRAPHICS ADAPTER / GRAPH 8MB = P/N 52G3206
#2767 8184016 GTX150 GRAPHIC ADAPTER / GRAPH 24MB = P/N 52G3207
#2768 43G0681 GT3I GRAPHIC ADPT/RGB CB EXT=58F2903/CARD LATC=59F4089L
#2769 43G0681 GT3I GRAPHIC ADPT/RGB CB EXT=58F2903/CARD LATC=59F4089L
#2770 71F1223 Colour Graphics Display Adapter / RGB CB EXT=58F2903
#2776 93H2945 GT4E GRAPH ADPT RGB CB EXT=58F2903/CARD LATC=59F4089
#2777 1 of 2 POWER Gt3 (8-bit)=00G1117 also require 00G2916(set of 2 cards)
#2777 2 of 2 SCREW=02G7176/SPACER=02G7178/LEGA DISKE=43G1775/RGB CB=58F2903
#2780 1 of 2 GRAPHIC ADAPTER=42F6842 / 71F1117 / 71F1151 / CABLE= 53F3271
#2780 2 of 2 52F3272 / RGB CB EXT=58F2903 / MICROCODE=02G7205
#2781 1 of 2 GRAPHIC ADAPTER=42F6842 / 71F1114 / 71F1151 / CABLE= 53F3271
#2781 2 of 2 52F3272 / RGB CB EXT=58F2903
#2782 42F6889 24-Bit Z-Buff Solid Rendering High Perf 3D Colour
#2783 71F1114 24-Bit Colour Graphics Frame Buffer Upgrade
#2785 24-Bit Pixel Memory Select
#2786 24-Bit Pixel Memory Field Installation

#2790 1 of 3 POWER GT4 8 BIT FEATURE CABLE / PROC.CARD=51G9397
 #2790 2 of 3 CB EXT=58F2903 / CABLE WRAP=70F9662/PIPE CARD=70F9664
 #2790 3 of 3 2POS CONN=51G9225 / PED GRAPHI=88G3988
 #2791 1 of 3 GT4X 24 BIT CABLE / 24BT OPTCD=51G9395/PROC.CARD=51G9397
 #2791 2 of 3 RGB CB EXT=58F2903/PIPE CARD=70F9664/2POS CONN=51G9225
 #2791 3 of 3 3POS CONN=71F0254/PED GRAPHI=88G3988
 #2792 1 of 2 POWER GT4 8BIT TO 24BIT (UPGRADE FEATURE) CABLE=51G9225
 #2792 2 of 2 24BT OPTCD=51G9395/3POS CONN=71F0254
 #2794 1 of 2 POWER Gt4 Performance Upgrade=70F9664
 #2794 2 of 2 MICROCODE=43G0961 / 2POS CONN=51G9225
 #2795 1 of 3 POWER GT4 8 BIT FEATURE / PROC.CARD=51G9397
 #2795 2 of 3 RGB CB EXT=58F2903 / CABLE WRAP=70F9662 / 2POS CONN=51G9225
 #2795 3 of 3 PED GRAPHI=88G3988 / MICROCODE=43G0961
 #2796 1 of 3 POWER GT4 24BIT / 24BT OPTCD=51G9395
 #2796 2 of 3 PROC.CARD=51G9397 RGB CB EXT=58F2903 / CABLE WRAP=70F9662
 #2796 3 of 3 MICROCODE=43G1766 / 2POS CONN=51G9225 / PED GRAPHI=88G3988
 #2800 81F8403 5086 ATTACHMENT ADAPTER / CABLE KIT=P/N 39F8203
 #2801 81F8403 5086 ATTACHMENT ADAPTER / CABLE KIT=P/N 39F8203
 #2802 1 of 2 5086 ATTACHMENT ADAPTER=81F8403/ CABLE KIT=P/N 39F8203
 #2802 2 of 2 SHIP KIT=39F8201 / MICROCODE=81F8102
 #2802 07H7536 7135: 2.2 GB STARFIRE
 #2803 51G8017 7011: GT1B ISO GRAPHIC ADAPTER 1 BIT MONO
 #2804 51G8017 7011: GT1B ISO GRAPHIC ADAPTER 1 BIT MONO
 #2804 07H7537 7135: 4.5 GB STARFIRE
 #2805 93H2945 GT4E GRAPH ADPT RGB CB EXT=58F2903 / CARD LATC=59F4089
 #2806 1 of 3 POWER GT4 8BIT FEATURE CABLE=51G9224 / PROC.CARD=51G9397
 #2806 2 of 3 RGB CB EXT=58F2903 / CABLE WRAP=70F9662 / 2POS CONN=71F0253
 #2806 3 of 3 PED GRAPHI=88G3988 / MICROCODE=43G0961
 #2807 1 of 3 POWER GT4 8 BIT FEATURE CABLE=51G9224 / PROC.CARD=51G9397
 #2807 2 of 3 CB EXT=58F2903 / CABLE WRAP=70F9662 / PIPE CARD=70F9664
 #2807 3 of 3 2POS CONN=71F0253 / PED GRAPHI=88G3988
 #2808 74F3158 MICRO CHANNEL ADAPTER
 #2809 8184016 GTX150 GRAPHIC ADAPTER / GRAPH 24MB = P/N 52G3207
 #2810 22F9758 Graphic Input Device Adapter / GIO CABLE=6247480
 #2811 6247480 Graphics Input Device Cable 6.9ft Cable-F
 #2812 93H2945 GT4E GRAPH ADPT RGB CB EXT=58F2903/CARD LATC=59F4089
 #2813 93H2945 GT4E GRAPH ADPT RGB CB EXT=58F2903/CARD LATC=59F4089
 #2815 1 of 3 POWER GT4 24BIT / CABLE=51G9224 / 24BT OPTCD=51G9395
 #2815 2 of 3 PROC.CARD=51G9397 / RGB CB EXT=58F2903 / CABLE WRAP=70F9662
 #2815 3 of 3 MICROCODE=43G1766 / 2POS CONN=71F0253 / PED GRAPHI=88G3988
 #2816 1 of 3 POWER GT4 8 BIT FEATURE CABLE=51G9224 / PROC.CARD=51G9397
 #2816 2 of 3 CB EXT=58F2903 / CABLE WRAP=70F9662 / PIPE CARD=70F9664
 #2816 3 of 3 2POS CONN=71F0253 / PED GRAPHI=88G3988
 #2817 1 of 3 GT4X 24 BIT CABLE=51G9224/24BT OPTCD=51G9395/PROC.CARD=51G9397
 #2817 2 of 3 RGB CB EXT=58F2903 / PIPE CARD=70F9664/2POS CONN=71F0253
 #2817 3 of 3 3POS CONN=71F0254 / PED GRAPHI=88G3988
 #2818 74F3158 7235 POWER GTO ACC. FEATURE
 #2819 74F3158 7235 POWER GTO ACC. FEATURE
 #2820 40H3571 7250 ATTACHMENT ADAPTER POWER GXT1000

#2821 67G3022 2.0 GB FILE
 #2823 07L7495 GXT2000P 3D ENTRY GR / 60G1994 BRACKET
 #2823 07H7536 7135: 2.2 GB STARFIRE
 #2825 1 of 2 POWER GXT3000P GRAPHIC ADAPTER= 24L0030
 #2825 2 of 2 BRACKET=07L9067 / BRKT TIEDN=08L0325 / SCREW=08L0358
 #2826 00P2429 GXT4000P GRAPHICS ADAPTER / 04N7533 DONGLE
 #2827 00P2368 GXT6000P GRAPHICS ADAPTER / 04N7533 DONGLE
 #2828 1 of 3 SCSI HI-PERF. EXTERN I/O CTRL. 50 POS CON=00G0972
 #2828 2 of 3 WRAP PLUG=07F3132 / SCSI TERM=15F6743 / FUSE=40F9736
 #2828 3 of 3 SCSI CARD=51G9425 / FRU M.CODE=91F0620
 #2829 1 of 3 SCSI HI-PERF. EXTERN I/O CTRL.50 POS CON=00G0972
 #2829 2 of 3 WRAP PLUG=07F3132 / SCSI TERM=15F6743 / FUSE=40F9736
 #2829 3 of 3 SCSI CARD=51G9425 / FRU M.CODE=91F0620
 #2830 11K0313 GXT130P PCI 2D GRAPH /75H8319 BRKT BLANK
 #2831 11H4779 SCSI-2 High-Performance Internal I/O Controller
 #2832 31F4221 SCSI Controller Cable 5ft / TERMINATOR=52G4260 / WRAP=00G0968
 #2833 32G0397 Cable Integr.SCSI adap->device 1.5m/TERM=52G4259/WRAP=00G0968
 #2834 70F9188 CABLE SCSI INTEGRATED TO SINGLE ENDED EXT DE SCSI TERM=51G7736
 #2835 1 of 3 SCSI HI-PERF. EXTERN I/O CTRL. 50 POS CON=00G0972
 #2835 2 of 3 WRAP PLUG=07F3132 / SCSI TERM=15F6743 / FUSE=40F9736
 #2835 3 of 3 SCSI CARD=51G9425 / FRU M.CODE=91F0620
 #2836 32G0397 SCSI 2 CONTROLLER CABLE / TERM 51G7736
 #2837 33F4606 SCSI Cable Controller->first-2 connector-device / WRAP=00G0968
 #2837 93H5107 MVP POWER MULTI-MONITOR ADAPTER
 #2838 8191425 SCSI CABLE (EXCL. 7011) SCSI 2 CONTROLLER / WRAP=00G0968
 #2838 08L0895 POWER GXT120P GRAPHIC ADAPTER-PCI
 #2839 8191425 SCSI 2 CONTROLLER CABLE(7011) to device / SCSI TERM=51G7736
 #2839 93H7983 POWER GXT110P GRAPHICS ADAPTER
 #2840 88G2838 5080 COAX COMMUNICATION ADAPTER
 #2840 33F4607 SCSI Cable Device-to-2connector-Device
 #2841 03N4169 GXT300P 2D GRAPHICS
 #2841 1 of 2 1.5M Cable SCSI-2 Fast/Wide Adapter/A to first device=52G4531
 #2841 2 of 2 SCSI TERMINATOR=51G7736
 #2842 92F2559 Cable SCSI-2 Fast/Wide Adapter/A to first device/TERM=52G4260
 #2843 07H7537 7135: 4.5 GB STARFIRE
 #2843 1 of 2 CABLE SCSI SE 1.5M 2 CONTROLLER-TO-1ST DEVICE=52G4337
 #2843 2 of 2 16BFW CBL=52G9501 TERMINATOR=61G8324 TERM 16BIT=92F0432
 #2844 52G4337 7131: Cable SCSI-2 Differential controller to tower
 #2844 52G4337 SCSI-2 CONTROLLER TO FIRST DEVICE TERMINATOR=61G8324
 #2845 52G4291 SYSTEM Y CABLE TO DEVICE .6 M.
 #2845 41L5958 3DX(GXT550P)
 #2846 52G4233 Cable Dev-to-Dev Wide Bus 2.5m (#2412/2416)
 #2847 79X3795 Terminator SCSI-Diff 50-pin low density - Narrow
 #2847 87G1356 Terminator SCSI-Diff 50-pin low density - Narrow
 #2848 74G8511 7204: Cable SCSI-Diff 7204-215 to 7204-215
 #2848 00P5758 GXT135P Graphics Adapter 1-X
 #2849 00P5758 GXT135P Graphics Adapter with Digital Support.
 #2850 93H9297 POWER GXT800M GRAPHIC ADAPTER
 #2851 93H6264 POWER GXT250P PCI Graphics Adapters

#2852 93H6267 POWER GXT255P PCI Graphics Adapters
 #2853 93H5440 POWER GXT800P GRAPHICS ADAPTER DIMM=39H8702
 #2854 87G1358 Cable Adapter-to-7204-2xx differential device 0.6m
 #2854 93H0028 POWER GXT500P GRAPHICS ADAPTER
 #2855 93H0029 POWER GXT550P GRAPHICS ADAPTER
 #2856 21F9043 SCSI CABLE 1.5 M
 #2856 93H2399 7250 ATTACHMENT ADAPTER DIMM=39H8706
 #2857 21F9044 SCSI CABLE 4 M.
 #2858 56F0382 SCSI CABLE 6 M.
 #2859 21F9045 SCSI CABLE 20 M.
 #2859 73H5440 POWER GXT800P WITH TEXTURE GRAPHIC ADAPTER
 #2860 17G1934 TERMINATOR
 #2860 52G9921 7204-112: Cable SCSI device-to-device wide 0.5m
 #2860 1 of 3 Serial Optical Channel Converter (SOCC)=59F2969
 #2860 2 of 3 CABLE 6MTR=46F2440 / CABLE 10MTR=46F2441 / CABLE 20MTR=46F2442
 #2860 3 of 3 CABLE 60MTR=46F2443/ CABLE 100MTR=46F2444/ OPTIC WRAP=56F0203
 #2861 67G1263 14M SCSI CABLE W/TERMINATOR P/N 61G8324 & INTERPOS 92F0324
 #2861 87H3405 ARTIC960HX 4-PORT EIA-232 CABLE
 #2862 87H3396 ARTIC960HX 4-PORT RS-449 CABLE
 #2863 87H3408 ARTIC960HX 4-PORT X.21 CABLE
 #2864 87H3399 ARTIC960HX 4-PORT X.35(DTE)CABLE
 #2865 87H3402 ARTIC960HX 4-PORT EIA-530 CABLE
 #2866 46F2440 SOCC 20ft (6m) Cable-KK
 #2867 46F2441 SOCC 33ft (10m) Cable-KK
 #2867 52G4233 2.5M SCSI CABLE AND TERMINATOR=61G8324
 #2868 46F2442 SOCC 65.5ft (20m) Cable-KK
 #2868 88G5746 7131: Cable SCSI Diff tower-to-tower 18.0m (#2412/2416)
 #2869 46F2443 SOCC 197ft (60m) Cable-KK
 #2869 88G5748 14M SCSI CABLE TOWER TO TOWER (NO TERMINATOR)
 #2870 46F2444 SOCC 328ft (100m) Cable-KK
 #2870 88G5747 12M SCSI CABLE TOWER TO TOWER (NO TERMINATOR)
 #2871 52G0174 SCSI-1.5M CABLE TERMINATOR=52G4260
 #2871 87H3795 ARTIC960RXD QUAD DTA,T1,100 OHM,3M 4-PORT
 #2872 70G9858 SCSI-2 F/W PCI-BUS ADPT CABLE 1.0M WITH TERMINATOR P/N 52G4260
 #2872 54F0740 ARTIC960RXD QUAD DTA,T1,100 OHM,15M EXTENSION
 #2873 06H6036 SCSI-2 F/W PCI-BUS ADPT CABLE 1.0M WITH TERMINATOR P/N 92F0432
 #2873 87H3791 ARTIC960RXD QUAD DTA,T1,100 OHM,15M BALANCED 3M 4-PORT CABLE
 #2874 52G4233 SCSI2 FW PCI ADAPTER CABLE 2.5M / SCSI TERMINATOR P/N 92F0432
 #2874 05F2045 ARTIC960RXD QUAD DTA,E1,120 OHM
 #2875 87H3521 ARTIC960RXD QUAD DTA,E1,75 OHM,UNBALANCED 1.8M 4-PORT CABLE
 #2876 70G9857 1.0M SCSI CABLE AND TERMINATOR (P/N 61G8324)
 #2876 87H3629 ARTIC960RXD QUAD DTA,E1,75 OHM,UNBALANCED 1.8M 4-PORT CABLE
 #2877 08L1215 ARTIC960RXD QUAD DTA H. 100 4-DROP CABLE
 #2878 08L1217 ARTIC960RXD QUAD DTA H. 100 4-DROP CABLE
 #2879 08L1219 ARTIC960RXD QUAD DTA FOUR H.100 TO SC BUS CONVERTER CABLE
 #2882 70G9857 7026 7131 7248 7317 7043 1M SCSI CABLE TOW-TO-TOWER (NO TERM)
 #2883 59H2891 1.0M SCSI CABLE AND TERMINATOR=61G8324
 #2884 52G4291 7131: Cable SCSI F/W Ctrl-to-tower 0.6m
 #2885 88G5749 7131: Cable SCSI Diff F/W Ctrl-to-tower 4.5m

#2887 52G9501 7131: Cable SCSI F/W Ctrl-to-tower 1.5m
 #2888 59H2891 NARROW SE CABLE TERMINATOR=92F0432
 #2893 88G5749 SCSI cable 4.5m
 #2895 07H8985 SSA CABLE 1.0M
 #2896 70G9858 1.0M NARROW SE DEVICE-TO-DEVICE
 #2896 32H1465 7131: SSA Cable 2.5m
 #2897 88G6404 7131: SSA Cable 5.0m
 #2898 32H1466 7131: SSA Cable 10.0m
 #2899 88G6406 7131: SSA Cable 25.0m
 #2900 36H9862 ADDITIONAL EXT BATTERY PACK (FOR MODELS U11 AND U13)
 #2900 1 of 2 4.5GB ULTRA-SCSI 16-BIT DISK DRIVE=83H7105
 #2900 2 of 2 SCREW=1147429 JUMPER=65F1103
 #2901 67G1259 7135: Cable .6m for 7135-to-7135
 #2901 1 of 2 4.5GB F/W ULTRA SCSI DASD MODULE=83H7105
 #2901 2 of 2 ADDR CABLE=06H7691 CARRIER=06H9389 SCREW=1147429
 #2902 67G1260 7135: 2.4 Metre SCSI-2 16-Bit Differential Cable
 #2902 88G5750 7134: 2.4 Metre SCSI-2 16-Bit Differential Cable
 #2902 1 of 2 4.5GB F/W ULTRA SCSI DASD MODULE=83H7105
 #2902 2 of 2 ADDR CABLE=06H7691 CARRIER=06H9389 SCREW=1147429
 #2902 88G5750 SCSI CABLE 2.4 M.
 #2903 1 of 2 4.5GB ULTRA-SCSI 16-BIT DISK DRIVE=83H7105
 #2903 2 of 2 SCREW=1147429 JUMPER=65F1103
 #2904 1 of 2 9.1GB ULTRA-SCSI 16-BIT 1-INCH (25MM) HIGH DISK DRIVE=59H6926
 #2904 2 of 2 Isolator=00G3272 Screw=0316807 Addr Jumper=45G9800
 #2905 67G1261 7135: 4.5 Metre SCSI-2 16-Bit Differential Cable
 #2905 88G5749 7134: 4.5 Metre SCSI-2 16-Bit Differential Cable
 #2905 61G2905 TRACKPOINT LATIN SPANISH
 #2906 34L2233 9.1GB 10K rpm Ultra SCSI Disk 80-LVD Enhanced Disk
 #2907 88G5755 9334: Cable adapter-to-9334-500 narrow bus 2.38m
 #2907 1 of 2 4.5GB ULTRA-SCSI 16-BIT DISK DRIVE=83H7105
 #2907 2 of 2 SCREW=1147429 JUMPER=65F1103
 #2908 1 of 2 9.1GB Ultra-SCSI 16-bit 1-inch (25MM) high disk drive=59H6926
 #2908 2 of 2 ISOLATOR=00G3272 SCREW=0316807 ADDR JUMPER=45G9800
 #2909 61G2909 TRACKPOINT CANADIAN-FRENCH
 #2909 25L3100 7015,7026,7043,9076: 18.2GB Ultra SCSI disk 1" 25L3100
 #2909 9076: Pair of 9.1GB disk (2 x 25L3101)
 #2909 59H6926 9.1GB ULTRA-SCSI DISK DRIVE
 #2909 1 of 4 18.2GB DRIVE / 0038442 SCREW 6-32 / 04G1559 SCREW
 #2909 2 of 4 07N3674 18GB DRIVE / 11H2704 ISOLATOR / 11K0196 ID CABLE
 #2909 3 of 4 1147429 SCREW / 21H0793 SHUNT / 40H0847 BRACKET
 #2909 4 of 4 45G9800 ADDR JUMP / 93H2482 AUTODOCK1 / 93H9808 SPACER
 #2910 76H2698 9.1GB ULTRA-SCSI 16-BIT DISK DRIVE
 #2911 36H9868 POWERPASS (110-127V)
 #2911 61G2911 NUMPAD CANADIAN FRENCH
 #2911 1 of 2 9.1GB F/W ULTRA SCSI DASD MODULE=76H2698
 #2911 2 of 2 ADDR CABLE=06H7691 CARRIER=06H9389 SCREW=1147429
 #2912 67G1262 7135: 12.0 Metre SCSI-2 16-Bit Differential Cable
 #2912 88G5747 7134: 12.0 Metre SCSI-2 16-Bit Differential Cable
 #2913 1 of 2 9.1GB ULTRA-SCSI 16-BIT HOT SWAP DISK DRIVE=59H6926

#2913 2 of 2 ADDR CABLE=06H7691 CARRIER=06H9389 SCREW(4x)=1147429
 #2913 36H9869 POWERPASS (208-240V)
 #2914 51G8568 SCSI-2 Passthru Terminator Cable 1.5m (5ft) 50 PIN
 #2914 67G1263 7135: 14.0 Metre SCSI-2 16-Bit Differential Cable
 #2914 88G5748 7134: 14.0 Metre SCSI-2 16-Bit Differential Cable
 #2915 00G0959 SCSI Ctrl Passthru Terminator Cable 5ft (9334 order rsF9171)
 #2915 70F9171 9334: SCSI PASSTHROUGH TERMINATOR CABLE
 #2916 00G0959 SCSI Passthru Terminator Cable Select
 #2916 70F9171 9334: SCSI PASSTHROUGH TERMINATOR CABLE
 #2917 45G2860 SCSI PASSTHROUGH TERMINATOR CABLE D/T 9334
 #2917 76H2698 9.1GB ULTRA-SCSI 16-BIT DISK DRIVE
 #2918 1 of 2 18.2GB ULTRA SCSI 16 / 06H9389 CARRIER
 #2918 2 of 2 07N3674 18GB DRIVE / 11K0196 ID CABLE / 1147429 SCREW
 #2918 67G1264 7135: 18.0 Metre SCSI-2 16-Bit Differential Cable
 #2918 70F9188 9334: Integrated SCSI adapter-to-9334-500
 #2918 88G5746 7134: 18.0 Metre SCSI-2 16-Bit Differential Cable
 #2918 45G2860 SCSI Passthrough Terminator Cable
 #2919 61G8323 7135: Cable Interposer Differential 68pin-to-50pin
 #2919 1 of 2 9.1GB DRIVE / 06H9389 CARRIER / 07N3675 9.1G DRIVE
 #2919 2 of 2 11K0196 ID CABLE / 1147429 SCREW / 59H6926 9.1G DRIVE
 #2920 93H6594 PCI TOKEN-RING ADAPTER
 #2920 45G2858 9334-500: External Cable SCSI-2 - 2.38m
 #2920 50G0460 7135: Interposer Wide 16-Bit Hi-Perf
 #2920 50G0460 INTERPOSER
 #2921 6427171 POWER CORD ADPTR FOR 7013-J01/ J30 (110-127V)
 #2921 -----> 1MB SIMM=59F4581 / 4P MULTIIF=61G2961
 #2921 67G0593 7204-215: Cable SCSI-Diff Adapter-to-Device 7204-215 4.75m
 #2921 1 of 2 IBM ARTIC960 COPROCESSOR (1MB)=61G2916 / AIB PLUG=53G0632
 #2921 2 of 2 1MB SIMM=59F4581 / 4P MULTIIF=61G2961
 #2922 52G4327 9334: Cable Adapter-to 9334-011 - Narrow bus 4.75m
 #2922 61G2919 AIB CABLE OPTION EIA 232 25PIN CONN=33F8985
 #2923 61G2924 AIB CABLE OPTION EIA 530 (RS422) / EIA530 PLUG=53G0639
 #2923 95X2494 Cable SCSI-Diff Adapter-to-Device 8.0m
 #2923 39H8915 POWER CORD ADPTR FOR 7013-J01/ J30 (208-240V)
 #2924 88G5757 9334: Cable Adapter-to-9334-011
 #2924 1 of 2 IBM ARTIC960 COPROCESSOR 4MB=61G2916 / AIB PLUG=53G0632
 #2924 2 of 2 4P MULTIIF=61G2961 / 4 MB DRAM=70F9973
 #2925 95X2492 Cable SCSI-Diff Device-to-Device 9334-011 and 7204-215 2.0m
 #2925 34F0008 7010: 2PT RS 232 CD ASYNC
 #2926 52G4232 9334: Cable adapter-to-9334-500 narrow bus 1.5m
 #2926 61G2934 AIB CABLE OPTION ISO 4902 V.36 / V.36 PLUG 53G0641
 #2927 61G2929 AIB CABLE OPTION ISO 4903 X.21 / X21 PLUG
 #2928 1 of 2 IBM ARTIC960 COPROCESSOR 8MB=61G2916 / AIB PLUG=53G0632
 #2928 2 of 2 4P MULTIIF=61G2961 / 8 MB=71G6450
 #2929 61G2916 ARTIC960 COPROCESSOR, 8-PORT EIA-232 / 8MB MEMORY=85F7463
 #2930 11H8607 8-Port Async Adapter EIA-232
 #2931 11H5969 8-Port Asynchronous EIA-232 ISA Adapter Type 3-8
 #2931 70F9188 Cable SCSI-Diff Adapter-to-Device 9334-501 1.48m
 #2931 67G0589 1.48M CABLE

#2932 52G4326 Cable, adapter-to-9334-501 8-bit 1.5m
#2932 1 of 2 8 PORT ASYNCHRONOUS ADAPTER - EIA-232/422A, ISA BUS=40H6632
#2932 2 of 2 WRAP CONNECTOR=6298964
#2933 45G2858 Cable SCSI-Diff Adapter-to-Device 9334-501 2.38m
#2933 73H3384 128-Port Asynchronous Controller ISA Type 3-9
#2933 67G0590 2.38M CABLE
#2934 12H1204 7010: DB25M-to-DB25F(IEA-232CBL) Serial Cable-I
#2934 88G5758 9334: Cable, Adapter-to-9334-501 8-bit 2.38m
#2935 61G2916 ARTIC960 COPROCESSOR, 6-PORT V.36 / 8MB MEMORY=85F7463
#2935 67G0566 Cable SCSI-Diff Adapter-to-Device 9334-501 4.75m
#2936 6323741 7010/7007: Async Cable EIA-232/V.24 10ft
#2936 88G5759 9334: Cable, Adapter-to-9334-501 8-bit 4.75m
#2937 00G2907 7007: PRINTER/TERMINAL INTERPOSER EIA-232
#2937 58F2861 PRINTER / TERMINAL INTERPOSER
#2937 67G0562 9334-501: Cable SCSI-Diff Adapter-to-Device 8.0m
#2938 61G2916 ARTIC960 COPROCESSOR, 8-PORT X.21 / 8MB MEMORY=85F7463
#2938 88G5760 9334: Cable, Adapter-to-9334-501 8-bit 8.0m
#2938 8191425 SCSI-2 INT/EXT INTEGRATED CONTROLLER CABLE
#2939 95X2498 Cable SCSI-Diff Device-to-Device 9334-501 2.0m
#2939 71G5053 ARTIC960 8-PORT EIA-232 CABLE
#2940 52G4757 8 PORT ASYNC ADAPTER EIA-422A
#2941 11H3796 ARTIC960 6-PORT V.36 CABLE
#2942 06H2146 ARTIC960 8-PORT X.21 CABLE
#2943 1 of 2 93H6541 8-PORT ASYNCHRONOUS ADAP RS232
#2943 2 of 2 11H5967 Cable + box
#2944 1 of 2 128-PORT ASYNCHRONOUS ADAPTER PCI BUS EIA-232/RS-422=93H6545
#2944 2 of 2 TERMINATOR=43G0926 WRAP PLUG=43G0928
#2945 30F8966 CABLE-K ASYNC EIA/422 29m (65.5ft) WRAP PLUG=30F9159
#2946 97H7782 622MBS ATM FIBR ADPR
#2947 1 of 2 ARTIC960HX 4-PORT SELECTABLE PCI ADAPTER=87H3427
#2947 2 of 2 Wrap Plug=87H3311 / Card POP=87H3413 / 8MB Dimm=87H3621
#2948 1 of 2 ARTIC960HX 4-PORT T1/E1 PCI ADAPTER=87H3428
#2948 2 of 2 CDPOP=87H3427 / WRAP PLUG=87H3502 / 8MB DIMM=87H3621
#2949 87H3701 ARTIC960HX DSP RESOURCE PCI AD ADAPTER CDPOP=87H3427
#2950 51G9246 8-Port Async Adapter STD 188 / CABLE 8/16=53F3048
#2951 93H5263 2-PORT CABLE, V.24 / EIA-232 / 25PIN CONN=33F8985
#2952 93H5264 2-PORT CABLE, V.35 / V.35 WRAP=71F0163
#2953 93H5265 2-PORT CABLE, V.36 / EIA-449 WRAP=73H2508
#2954 93H5267 2-PORT CABLE, X.21 / X.21 WRAP=40F9904
#2955 11H5762 16-Port Async Adapter EIA-232
#2956 11H5762 8-port to 16-port Async Adapter EIA-232D
#2957 52G4739 16-Port Async Adapter EIA-422A
#2959 43G0656 1-PORT Multi-Protocol Communication Adapters MP/A
#2960 51G9060 X.25 Interface Co-Processor/2
#2961 40H1937 X.25 Interface CO-Processor ISA Adapter
#2961 71G6458 X.25 ADPTRSHORT ISA 43P SERIES
#2962 93H6086 2-PORT MULTIPROTOCOL SDLC X.25 PCI/SHORT ADAPTER
#2963 99G9547 TURBOWAYS 155 PCI UTP ATM ADAPTER
#2964 07L6605 ETHERNET 10/100MBPS MCA ADAPTER 9-Q

#2965 07F3150 X.25 Att.Cable X.21 10ft (3 Meter) D/T 7012/13/15/16/30
 #2965 07F3151 X.21 CABLE / WRAP=07F3153 D/T 7008/9/11/13/24/25/26/43/7317
 #2966 07F3160 X.25 Attachment Cable V.24 10ft (3 Meter) / WRAP=07F3163
 #2967 07F3170 X.25 Att.Cable V.35 10ft (3 Meter) D/T 7012/13/15/16/30
 #2967 07F3171 V.35 CABLE / WRAP=07F3173 D/T 7008/9/11/13/24/25/26/43/7317
 #2968 94H0823 10/100 MBPS ETHERNET PCI ADAPT
 #2969 09P2098 GIGABIT ETHERNET - SX PCI ADAPTER 07L8916
 #2970 1 of 2 TR High-Per.Network Adapter 4/16MB
 #2970 2 of 2 TR CARD=00G2652 / CABLE=6339098 / DISKETTE=43G0615
 #2971 73G2053 16-BIT TOKEN RING ADAPTER ISA 40P
 #2971 93H5686 4/16MB Token Ring Adapter, ISA (Short)
 #2972 86H2123 Auto Token-Ring LANstreamer MC32 8-S
 #2973 51G8202 7010: Token-Ring Adapter Select 4/16Mbps
 #2974 92G7695 Token Ring 4/16mb for 7010-130 (120 16F1144 150=51G8202)
 #2974 93F0331 TOKEN RING FOR 7010
 #2975 00P1690 1GB ETHERNET ADP UTP
 #2976 53F3926 X.25 Attachment Cable X.21 20ft (6 METER) / WRAP=07F3153
 #2977 53F3927 X.25 Attachment Cable V.24 20ft (6 METER) / WRAP=07F3163
 #2978 53F3928 X.25 Attachment Cable V.35 20ft (6 METER) / WRAP=07F3173
 #2979 04H8098 Auto LANstreamer Token-Ring PCI adapter us / EMEA = 04H8104
 #2980 1 of 2 Ethernet High-Performance LAN Adapter (802.3)
 #2980 2 of 2 ETHERNET CD=00G3368 / FIRMWARE=32G0082 / DIAGNOSTIC=88G3890
 #2981 48G7170 RS/6000 43P SERIES ETHERNET ADPTER ISA (SHORT) PN=60G3994
 #2982 XOCME1E 7020: PS/2 Adapter/A for Ethernet Network (No P/N)
 #2982 92F0005 7010: 802.3 ETHERNET CABLE
 #2983 43G2814 ETHERNET ADAPTER / CONNECTOR TWI = P/N 43G2820
 #2984 73G9821 TURBOWAYS 100 ATM Adapter
 #2985 93H1902 Ethernet T2 BNC/RJ-45 PCI Adapter - Type 8-Y
 #2986 94H0385 3COM 10/100 MBPS PCI FAST ETHERLINK XL FOR POWERPC SYST
 #2987 93H7766 Ethernet T5 RJ-45/AUI PCI Adapter - Type 8-Z
 #2988 21H3890 TURBOWAYS 155 PCI ATM FIBER ADAPTER
 #2989 72H3043 TURBOWAYS 155 ATM ADAPTER
 #2990 42F6717 3270 Connection Adapter MKT 22F0189
 #2990 22F9743 TCA/DCA ADAPTER FOR U.S. TRMCAB=30F8966
 #2991 42F6717 3270 CONNECTION ADAPTER -WORLD TRADE
 #2992 93H4020 ETHERNET/FDX HI PERF AUI/RJ45 MC ADPTR
 #2993 93H4036 ETHERNET 10MBPS BNC MC ADPTR
 #2994 07L6601 ETHERNET 10/100MBPS MCA ADAPTER 9-K
 #2995 09F1801 Multiport Interface Cable(3m) 53F3048
 #2996 43G0463 16-Port Interface Cable EIA-232(3m) Cable-L 53F3048
 #2997 43G0462 16-Port Interface Cable EIA-422A 53F3048
 #2998 93H5513 TURBOWAYS 25 ATM PCI ADAPTER
 #2999 73H1685 VIDEO STREAMING ADAPTER (MCA)
 #3000 76H2697 DISK: 4.5GB SCSI-2 F/W 1-INCH (25MM)
 #3001 21F9046 MULTIPLE ATTACHMENT KIT EXT S-CBL FOR D/T 7137
 #3001 36G6930 1 GB DASD
 #3001 1 of 2 REMOTE POWER ON D/T 7133,7134,7135 / 7133PWR CC=07H9160
 #3001 2 of 2 RPWR CTRL=67G5181 / CTRL CABLE=67G1555 / POWER CAB=42F6839
 #3001 96G4408 4.5GB SCSI-2 F/W DISK DRIVE MODULE

#3002 1 of 2 9.1GB ULTRA 10K LVD / 06H9389 CARRIER / 11K0196 ID CABLE
#3002 2 of 2 1147429 SCREW / 34L7393 9.1G ULTRA
#3003 88G6202 POWER/COOLING UNIT
#3003 07G4859 9333: 10 to 3 Metre Serial-Link Cable Select
#3003 83H7105 DISK: 4.5GB SCSI-2 F/W 1-INCH (25MM)
#3004 31H7969 DISK DRIVE MODULE LOCK ASSY / KEY=07H8238 LOCK DASD=07H8239
#3004 76H2697 DISK: 4.5GB SCSI-2 F/W 1-INCH (25MM)
#3005 1 of 2 4.5GB ULTRA-SCSI 16-BIT DISK DRIVE=83H7105
#3005 2 of 2 SCREW=1147429 JUMPER=65F1103
#3006 88G6203 7133: -48 V DC INPUT POWER / CABLE=P/N 67G3032
#3006 74G7719 7137: 4 MB CACHE
#3007 83H7105 DISK: 4.5GB SCSI-2 F/W 1-INCH (25MM)
#3008 1 of 2 9.1 GB 10 KRPM ULTRA D / 06H9389 CARRIER / 08L1155 AIR DUCT
#3008 2 of 2 11K0196 ID CABLE / 1147429 SCREW / 34L2232 9.1GB 10K
#3009 93H9005 BASE 4.5GB F/W DASD
#3010 93G2972 DISK: 9.1GB SCSI-2 F/W
#3010 07G4860 9033/34: STANDARD/ADDITIONAL 10-METER
#3011 96G4409 9.1GB SCSI-2 F/W DISK DRIVE MODULE
#3012 76H2698 9.1GB ULTRA-SCSI 16-BIT DISK DRIVE
#3013 93G2972 DISK: 9.1GB SCSI-2 F/W
#3013 93G2972 DISK: 9.1GB SCSI-2 F/W
#3015 93G2972 DISK: 9.1GB SCSI-2 F/W
#3016 93G2972 DISK: 9.1GB SCSI-2 F/W
#3017 93G2972 DISK: 9.1GB SCSI-2 F/W
#3019 1 of 2 9.1GB F/W ULTRA SCSI / 06H9389 CARRIER / 11K0196 ID CABLE
#3019 2 of 2 1147429 SCREW / 76H2698 9.1G HD
#3020 09L2261 7133 MOD20: BLACK COVER
#3021 03N3301 9.1GB ULTRA2 SCSI U2
#3023 03N3302 18.2GB 1" Ultra2 SCSI Disk
#3025 00P1517 9.1GB ULTRA2 10K U2
#3026 00P1518 18.2GB 10K RPM Ultra2 SCSI Disk
#3027 09P4868 9.1GB 80-pin 10k RPM
#3028 1 of 2 4.5GB ULTRA-SCSI 16BIT HOT SWAP DISK DRIVE
#3028 2 of 2 4.5GB HDD=83H7105 TRAY=97H9336 SCREW,DASD=44H4266
#3029 1 of 2 9.1GB ULTRA-SCSI 16-BIT HOT SWAP DISK DRIVE
#3029 2 of 2 9.1GB HDD=59H6926 TRAY=97H9336 SCREW,DASD=44H4266
#3030 74G6995 1.1GB SE Disk Drive Starfire
#3031 74G6996 2.2GB SE Disk Drive Starfire
#3031 06H3370 7248: 2.0GB HD / CABLE=93H6991 - Now subs to 2.2GB 76H0955
#3032 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#3033 74G8824 2.2GB DRIVE(S) F/W DASD TRAY=06H8631
#3034 74G8824 2.2GB DRIVE(S) F/W DASD TRAY=06H8631
#3034 74G7008 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3035 93G2972 DISK 9.1GB NON-HOT SWAPPABLE / CARRIER=06H9389
#3035 74G6995 1.1GB SE Disk Drive Starfire
#3036 74G6995 1.1GB SE Disk Drive Starfire
#3037 74G6996 2.2GB SE Disk Drive Starfire
#3038 74G6996 2.2GB SE Disk Drive Starfire
#3039 74G6996 2.2GB SE Disk Drive Starfire

#3040 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#3041 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#3042 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#3043 74G8824 2.2GB DRIVE(S) F/W DASD TRAY P/N=06H8631
#3044 74G8824 2.2GB DRIVE(S) F/W DASD TRAY P/N=06H8631
#3045 74G8824 2.2GB DRIVE(S) F/W DASD TRAY P/N=06H8631
#3046 59H6923 SP: 18.2GB SCSI
#3046 74G7008 7043: 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3047 74G7008 7043: 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3048 74G7008 7043: 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3049 74G7008 7043: 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3050 19H0207 CRU FOR 1.1 GB DISK DRIVE STARFIRE
#3050 67G5118 ADDITIONAL PROGRAMMABLE ARRAY CONTROLLER D/T 7135
#3052 19H0207 CRU FOR 1.1 GB DISK DRIVE STARFIRE
#3053 19H0203 CRU FOR 2.2 GB DISKDRIVE STARFIRE
#3054 19H0208 CRU OF STAREFIRE 4.5 GB DISK DRIVE
#3055 31H7731 ADDITIONAL ARRAY CONTROLLER
#3056 74G8824 2.2GB SCSI-2 FAST/WIDE DISK DRIVE
#3057 74G7008 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3059 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#3069 74G8824 DISK DRIVE 2.2GB / DASD TRAY=06H8631
#3070 09P0618 9.1GB SSA BHC HOTSWP
#3071 59H6259 4.5GB SSA HOT SWAP DISK DRIVE / SSA TOOL=32H7059
#3072 21H8734 9.1GB SSA HOT SWAP DISK DRIVE / SSA TOOL=32H7059
#3073 93H9006 4.5GB SSA HOT SWAP DISK DRIVE BOOK MODULE
#3074 05J6446 9.1GB SSA MERLIN PROCESSOR UPGRADE
#3077 09P0620 18.2GB 10K RPM SSA Disk F80/6F1
#3078 1 of 2 9.1GB SSA Diks / 03N2837 9.1GB SSA / 08L1155 AIR DUCT
#3078 2 of 2 09L4251 CARRIER / 1147429 SCREW
#3079 03N4139 9.1GB SSA 10K RPM Disk F80 6F1
#3080 83H7105 DISK DRIVE 4.5GB F/W 1-INCH HIGH HOT SWAP DISK DRIVE
#3082 1 of 2 DISK DRIVE 1.1GB F/W HOT SWAP STARFIRE=74G7006
#3082 2 of 2 ADDR.CABLE=06H7691
#3083 74G8824 DISK DRIVE 2.2GB / DASD TRAY=06H8631
#3084 74G7008 DISK DRIVE 4.5GB F/W HOT SWAP / ADDR.CABLE=06H7691
#3085 99F7897 HOT SWAPPABLE 1.1GB DISK DRIVE
#3086 99F7897 HOT SWAPPABLE 2.2GB DISK DRIVE
#3087 99F7898 HOT SWAPPABLE 4.5GB DISK DRIVE
#3087 74G7006 DISK DRIVE 1.1GB / DASD TRAY=06H8631
#3087 99F7898 HOT SWAPPABLE 4.5GB DISK DRIVE
#3088 74G8824 2.2GB DRIVE(S) F/W DASD TRAY P/N=06H8631
#3088 1 of 2 DISK: 7131-105 - 9.1GB HOT SWAPPABLE DISKDRIVE=93G2972
#3088 2 of 2 CARRIER= P/N 06H9389
#3089 21H8734 DISK: 7131-405 SSA - 9.1GB HOT SWAPPABLE DISK DRIVE
#3090 93G2972 9.1GB SCSI-2 F/W HOT SWAP DISK DRIVE CARRIER=06H9389
#3091 00G1277 POWER Control Cable 33ft
#3091 83H7105 4.5GB SCSI-2 F/W 1-INCH HIGH HOT SWAP DISK DRIVE
#3091 93G2972 9.1GB SCSI-2 F/W HOT SWAP DISK DRIVE CARRIER=06H9389
#3092 74G7008 DISK DRIVE 4.5GB F/W HOT SWAP / ADDR.CABLE=06H7691

#3093 74G8824 7043: 2.2GB SCSI-2 FAST/WIDE DISK DRIVE
#3093 08L7915 7133 MOD20: RAIL KIT
#3094 74G7008 7013: DISK DRIVE 4.5GB F/W DASD DIFF MODULE
#3095 07H1119 DISK DRIVE (ORION) 2.1GB SCSI-2 F/W
#3096 93H7151 2.1 GB SCSI-2, 5400 RPM HARD DISK DRIVE
#3097 93H7151 2.1 GB SCSI-2, 5400 RPM HARD DISK DRIVE
#3098 74G7008 4.5GB SCSI-2 FAST/WIDE DISK DRIVE
#3099 76H0955 7248: 2.2GB Hard Disk Drive Upgrade from 1.2GB base.
#3099 88G6202 POWER/COOLING UNIT
#3100 1 of 2 ADV GRAPH VRAM12MEG=65G4889 VRAM16MEG=65G4890
#3100 2 of 2 DRAM16MEG=65G4891
#3100 07H7781 9333 857mb Serial Link Disk Drive Subsystem
#3100 8529214 7007: Parallel Printer Cable 6.9ft
#3100 1525612 7010: PRINTER ADAPTER CABLE
#3100 1 of 2 9333: 857MB SERIAL DISK DRIVE=70F9042 / STORAGE=07H7779
#3100 2 of 2 CSP 857MB=07H7781
#3101 07H8230 DISK DRIVE SSA 1.1 GB
#3101 1 of 2 18.2GB U-SCSI 16-BIT / 06H9389 CARRIER / 07N3674 18GB DRIVE
#3101 2 of 2 11K0196 ID CABLE / 1147429 SCREW
#3102 67G0535 9333: 2.0GB Serial-Link Disk Drive
#3102 34L7391 pSeries: 18.2GB 10K RPM Ultra SCSI Disk
#3103 07N3674 pSeries: 18.2GB 10K RPM 1" Ultra SCSI Disk
#3104 1 of 2 18.2GB 10K RPM 1" Ultra SCSI Disk / 06H9389 CARRIER
#3104 2 of 2 07N3674 18GB Drive / 11K0196 ID CABLE / 1147429 SCREW
#3105 8509386 Serial Printer Adapter Cable (X-Station)
#3106 8286170 7010: DUAL ASYN SERIL CABLE
#3107 31F4590 Serial Dual Port Cable 7010-130/140/150,7006,
#3107 31G4126 SERIAL PORT CONVERTER CABLE D/T 7008,7009
#3108 8286194 Serial Adapter Connector (X-Station)
#3108 6450242 7010: SERIAL ADAPTER CONNECTOR
#3108 07H8230 DISK DRIVE SSA 1.1 GB
#3109 1 of 2 CABL SCSI-RAID EXPCI / 04N2271 CABLE, SIG / 1614920 SCREW
#3109 2 of 2 24L1695 CONN COVER / 56F0346 SCREW / 76H0524 CABLE
#3110 69F9821 9333: 1,07gb Serial-Link Disk Drive / LOGIC=07G5173
#3110 34L7392 pSeries: 18.2GB 10K RPM Ultra2 SCSI Disk
#3110 07N3782 pSeries: 18.2GB 10K RPM Ultra3 SCSI Disk
#3111 69F9821 9033: 1.07GB SERIAL DISK DRIVE CARD DEVICE=07G5173
#3112 03N3873 9.1 GB Ultra SCSI Disk.
#3113 03N3874 18.2 GB Ultra SCSI Disk.
#3115 1 of 3 9.1GB IN MEDIA BAY / 07N3675 9.1G DRIVE / 1147429 SCREW
#3115 2 of 3 21H0793 SHUNT / 45G9800 ADDR JUMP / 88G3977 16BITTERM
#3115 3 of 3 93H7680 DASD PLATE
#3116 1 of 3 9.1GB IN MEDIA BAY / 07N3675 9.1G DRIVE / 1147429 SCREW
#3116 2 of 3 21H0793 SHUNT / 45G9800 ADDR JUMP / 88G3977 16BITTERM
#3116 3 of 3 93H7680 DASD PLATE
#3116 07H8230 DISK DRIVE SSA 1.1 GB
#3116 89H6171 16MB CACHE
#3117 07N3776 18.2GB 10K RPM Ultra SCSI Hot Swap Disk
#3119 07N3774 36.4GB 10KRPM DRIVE

#3120 00G1278 RS6K: External SCSI Controller Cable 4.75m (15.5ft)
 #3120 67G0535 9333: 2.0GB Serial-Link Disk Drive
 #3121 51G7633 External SCSI-2 Controller Cable (mod 9xx)
 #3121 51G8569 SCSI CABLE 4.75 METER EXTERNAL 50 PINS M/T 7015
 #3122 65G6879 SERIAL TO RE-IPL PORT CABLE FO R DRAWER/DRAWER
 #3123 65G6887 SERIAL TO RE-IPL PORT CABLE FO R RACK/RACK
 #3124 1 of 2 88G4853 Cable: Serial to Serial Port for Rack to Rack - 3.7m
 #3124 2 of 2 DB-25 Female to DB-25 Female.
 #3125 88G4854 Cable: Serial to Serial Port for Rack to Rack - 8-meter
 #3126 90H9795 REMOTE I/O CABLE - DRAWER-DRAWER
 #3127 21H7377 REMOTE I/O CABLE - RACK-RACK
 #3128 07N3780 36.4GB 10KRPM DRIVE
 #3129 00P1519 36.4GB ULTRA2 SCSI
 #3130 31F4222 SCSI Device-to-Device Cable 2.2ft (0.3M)Cable-VV
 #3131 73H3142 CABLE SCSI-RAID, INT PORT TO EXT CONNECTOR
 #3132 40H7351 6.0M 16-BIT SCSI-2 SUBSYSTEM- TO-ADAPTER CABLE
 #3133 40H7353 CABLE 3M, DRWR TO F/W MC SCSI ADAPTER (SE OR DIFF)
 #3134 40H7352 CABLE 6M, DRWR TO F/W MC SCSI ADAPTER (SE OR DIFF)
 #3137 88G5747 CABLE 12M, DRWR TO F/W DIFF MC SCSI ADAPTER INTERPOSER=50G0460
 #3138 88G5746 CABLE 18M, DRWR TO F/W DIFF MC SCSI ADAPTER INTERPOSER=50G0460
 #3139 09P1709 INT SCSI IPL DSK-EXT
 #3140 74G8824 2GB DASD
 #3141 74G7008 4GB DASD
 #3142 44L0005 500MHZ RIO Cable 3M
 #3143 97H7490 500MHZ RIO Cable 6M
 #3144 97H7491 500MHZ RIO Cable 15M
 #3150 31L7197 CABLE ASM / S1 PORT TO CONTROL
 #3151 31L7196 CABLE ASM / SAMI SP ATTACH
 #3152 00P1517 9.1GB 10K Ultra3 SCSI Disk Drive
 #3159 09P3924 73.4GB Disk Drive
 #3199 07H8230 1.1 GB SSA DISK DRIVE MODULE
 #3200 65G4887 VIDEO OUPUT OPTION VOO BRD / VOO/RS CBL=65G4894
 #3201 88G6197 2.2GB SSA DISK DRIVE MODULE
 #3208 88G6197 2.2GB SSA DISK DRIVE MODULE
 #3216 88G6197 2.2GB SSA DISK DRIVE MODULE
 #3234 6495268 7208: SCSI SYSTEM TO DEVICE (4M)
 #3236 6495269 7208: SCSI SYSTEM TO DEVICE (12M)
 #3246 21F4980 7208: SCSI SYSTEM TO DEVICE (20M)
 #3250 51G8290 Cable Graphics 13W3 to 3BNC
 #3251 09G3862 13W3 TO 3-BNC, ID=V100 DISPLAY CABLE
 #3252 09G3541 77 HZ CABLE ISO 6091-19I
 #3253 88G4483 13W3 TO 3-BNC, ID=1010 DISPLAY CABLE
 #3257 82G3257 KEYBOARD BULGARIA
 #3259 82G3259 TRACKPOINT HUNGARY
 #3261 82G3261 TRACKPOINT ICELAND
 #3263 82G3263 TRACKPOINT POLAND
 #3265 82G3265 TRACKPOINT ROMANIA
 #3267 82G3267 TRACKPOINT RUSSIA
 #3269 82G3269 TRACKPOINT SERBIA

#3271 82G3271 TRACKPOINT SLOVAKIA
#3273 82G3273 TRACKPOINT TURKEY
#3275 82G3275 TRACKPOINT TURKEY
#3277 82G3277 TRACKPOINT YUGOSLAVIA
#3280 82G3280 ENHANCED KEYBOARD CAN./FRENCH
#3294 82G3294 ENHANCED KEYBOARD LATINSPANISH
#3299 88G6197 2.2GB SSA DISK DRIVE MODULE
#3369 06H3369 1GB DRIVE (FOR MODELS WITH 1GB DRIVE)
#3370 76H0955 2GB DRIVE (FOR MODELS WITH 2GB DRIVE)
#3397 93H7151 7248: 1GB SCSI HDD PN 84G8976
#3401 09L2273 4.5GB SSA DISK DRIVE MODULE - Starfire
#3404 09L2273 4.5GB SSA DISK DRIVE MODULE - Starfire
#3408 09L2273 4.5GB SSA DISK DRIVE MODULE - Starfire
#3416 09L2273 4.5GB SSA DISK DRIVE MODULE - Starfire
#3499 09L2273 4.5GB SSA DISK DRIVE MODULE - Starfire
#3530 70F9042 857MB SERIAL DASD / CSP 857MB=07H7781
#3550 69F9821 1.07GB SERIAL DASD
#3551 69F9821 1.07GB SERIAL DASD
#3552 67G0535 2.0 GB SERIAL - LINK DASD #9272
#3600 -----> POWERDISPLAY 16 (REF. MT.6091 MOD 16) NO SINGLE P/N
#3601 -----> POWERDISPLAY 19 (REF. MT 6091 MOD 19I NO SINGLE P/N
#3603 -----> POWERDISPLAY 16S (REF MT 1091 MOD 051) NO SINGLE P/N
#3606 -----> POWERDISPLAY 19 (REF. MT 6091 MOD 19I NO SINGLE P/N
#3607 -----> CANARY 17" DISPLAY (REF M/T 7091-017) NO SINGLE P/N
#3608 -----> POWERDISPLAY 20 NO SINGLE P/N
#3609 -----> POWERDISPLAY 20 NO SINGLE P/N
#3611 96G2183 P201 COLOR MONITOR NH (PLUTO)
#3612 96G2130 P50 COLOR MONITOR NH (PLUTO)
#3613 96G3020 P70 COLOR MONITOR NH (PLUTO) 17"
#3614 96G2167 P200 COLOR MONITOR NH (PLUTO)
#3615 96G2183 P201 COLOR MONITOR NH (PLUTO)
#3614 96G2167 P200 COLOR / MERLIN PROCESSOR UPGRADE / MONITOR NO=96G3040
#3615 96G2183 P201 DISPLAY / MERLIN PROCESSOR UPGRADE
#3617 11L2908 G52 COLOR MONITOR, NORTHERN HEMISPHERE
#3618 60H9118 G52 COLOR MONITOR, EQUATORIAL
#3619 60H9116 G52 COLOR MONITOR, SOUTHERN HEMISPHERE
#3620 61H0400 P72 COLOR MONITOR
#3621 61H0412 P92 COLOR MONITOR
#3622 61H0424 P202 COLOR MONITOR
#3623 61H0213 IBM P72 COLOR MONITOR STEALTH GREY CAPTURE CABLE
#3625 61H0223 IBM P92 COLOR MONITOR STEALTH GRAY AND CABLE
#3626 61H0234 IBM P202 COLOR MONITOR STEALTH GRAY AND CABLE
#3627 1 of 2 BLACK P76 MONITORS / 61H3600 N HEM DISP / 61H3610 OPT NH DIS
#3627 2 of 2 61H3611 DISP/JAPAN / 61H3613 S H DISPLY
#3628 1 of 2 BLACK P260 21" DISP / 04N7160 BLKP260 NH
#3628 2 of 2 04N7168 BLKP260 JP / 04N7170 BLKP260 SH
#3629 1 of 2 WHITE P76 MONITORS / 61H3596 P76N.H.PR / 61H3608 P76 NH OPT
#3629 2 of 2 61H3609 P76 W/JAPN / 61H3612 P76 W/S.H
#3630 1 of 2 WHITE P260 MONITORS / 04N7156 P260W NHP

#3630 2 of 2 04N7167 P260W US/J / 04N7169 P260W SH
 #3636 9114-275: 6736-HB0 L200P 31P9263
 #3690 8184111 PC DISPLAY CONVERTER CABLE FOR GT1/GT1B GRAPHICS ADAPTER
 #3749 -----> Maintenance kit 7010 / NO P/N AVAILABLE
 #3750 00G3325 WRAP PLUG
 #3751 -----> Diagnostic Diskette Kit / NO P/N AVAILABLE
 #3752 1 of 2 WRAP PLUGS / 00G2380 WRAP PLUG / 22F9689 WRAP PLUG
 #3752 2 of 2 6298964 WRAP PLUG / 71F0690 WRAP PLUG / 71F1167 ETH WRPPLG
 #3822 09P0624 9076: 36.4 SSA Disk Drive
 #3901 09L2274 ONE 9.1GB SSA DISK DRIVE MODUL
 #3908 09L2274 ONE 9.1GB SSA DISK DRIVE MODUL
 #3916 09L2274 ONE 9.1GB SSA DISK DRIVE MODUL
 #3925 40H6328 Cable 9-25 pin
 #3926 80G0597 Cable 9pin to 25pin 4meters - requires interposer
 #4000 1 of 2 DISK DRIVE EXPANSION UNIT SCSI CABLES=67G5105 / 67G5106
 #4000 2 of 2 67G5138 / 67G5139 / FRONT COVER=67G1480
 #4001 1 of 2 HI PERF SWITCH / CABL / HPS SW=46G5632 / ND1-ND8 CBL=46G5971-8
 #4001 2 of 2 ND9-ND16 CBL 46G7035-42 TB0 HPS CD=89G2333
 #4001 75G5028 7137: PCI SIGNAL CABLE - 4.0M
 #4001 92F0102 2MB SIMM Memory 70NS (models 25x only)
 #4001 67G3318 9333: MULTI-ATTACHMENT, PATHS 1-4
 #4002 1 of 2 HI PERF SWITCH / CABL / HPS SW=46G5632 / ND1-ND8 CBL=46G5971-8
 #4002 2 of 2 ND9-ND16 CBL 46G7035-42 TB0 HPS CD=89G2333
 #4002 46G4219 7137: MCA SIGNAL CABLE - 4.0M
 #4002 51G8553 7010: 4MB SIMM Memory
 #4002 67G3013 EXPANSION
 #4002 67G3318 9033: MULTI-ATTACHMENT, PATHS 5-8
 #4003 1 of 2 HI PERF SWITCH / CABL / HPS SW=46G5632 / ND1-ND8 CBL=46G5971-8
 #4003 2 of 2 ND9-ND16 CBL 46G7035-42 TB0 HPS CD=89G2333
 #4003 04H8190 8MB SIMM Memory
 #4003 51G8554 7010: 8MB SIMM Memory
 #4003 21H4029 SIGNAL CABLE - 10.0M HACMP
 #4003 05J8382 7133 MODX40: SSA INTERFACE CONTROLLER CARD FOR SUN SBUS
 #4004 1 of 2 HI PERF SWITCH / CABL / HPS SW=46G5632 / ND1-ND8 CBL=46G5971-8
 #4004 2 of 2 ND9-ND16 CBL 46G7035-42 TB0 HPS CD=89G2333
 #4004 65G4615 7010: 8MB DIMM MEMORY
 #4005 1 of 2 HI PERF SWITCH / CABL / HPS SW=46G5632 / ND1-ND8 CBL=46G5971-8
 #4005 2 of 2 ND9-ND16 CBL 46G7035-42 TB0 HPS CD=89G2333
 #4005 90X8624 7010: PS/2 1MB SIMM Memory Expansion Kit (X-Station)
 #4005 73G3125 8MB MEMORY MODULE 40P
 #4005 -----> 7135: DESKSIDE MINI RACK / NO SINGLE P/N
 #4006 92F0104 7010: PS/2 2MB Memory Expansion Kit (X-Station)
 #4007 75X5894 7010: PS/2 0,5MB Video Memory Expan.Kit (X-Station 120 only)
 #4007 -----> HIGH PERFORMANCE SWITCH ASM. LC-8 / NO SINGLE P/N
 #4008 1 of 2 SCALABLE PWR PARAL.SWITCH-8 AND SCALABLE PWR PAR SWITCH
 #4008 2 of 2 NO SINGLE P/N
 #4008 59F4433 8MB SD1 Memory Card Option (+ 8 SIMMS 59F4581)
 #4010 1 of 3 HIGH-PERFORMANCE SWITCH TBS ASM=26H3233 CABLES:
 #4010 2 of 3 SUP=46G5583 DATA=46G5587 EXT=46G7014 48V 54G3015

#4010 3 of 3 SENSE=54G3304 NONAME=46G5584/86/89/90/92
 #4010 59F4433 BASE CARD 8-16MB SD1 Memory Option (+ 8 SIMMS 59F4582)
 #4011 93H5582 7006: 16MB SIMM memory
 #4011 8184379 7010: 16MB SIMM memory
 #4011 -----> SCALABLE PWR PAR SWITCH UNIQUE / NO SINGLE P/N
 #4011 92G5582 16 MB SIMM MEMORY
 #4011 84G4324 7249: IBM THINKPAD POWER SERIES 850 32MMB TOTAL MEM
 #4011 32H6999 7133 MODX40: SSA RAID ADAPTER FOR PC SERVER
 #4012 93H5583 32 MB SIMM MEMORY
 #4012 73G3253 7010: 32 MB SIMM MEMORY
 #4012 09L2069 7133 MODX40: SSA RAID CLUSTER ADAPTER FOR PC SERVER
 #4013 88G2972 7007: 8 MB SIMM MEMORY
 #4013 09L2130 7133 MODX40: SSA RAID CLUSTER ADAPTER FOR PC SERVER
 #4014 88G2974 7007: 16 MB SIMM MEMORY
 #4014 92G7429 32MB MEMORY MODULE 70NS 40P
 #4015 88G2976 7007: 32 MB SIMM MEMORY
 #4016 59F4433 BASE CARD 8-16mb SD1 Memory Option (+ 8 SIMMS 59F4582)
 #4018 17H5426 HIGH PERF. SWITCH ADAPTER-2
 #4019 65G4617 7010: 32MB DUAL IN LINE MEM. MODULE (DIMM)
 #4020 26H7241 TB3 ADAPTER
 #4022 21L3892 SP SWITCH MX ADAPTER
 #4023 92G7282 MODELS WITH 64MB MEM INSTALLED (2X32MB) IBM RS/6000 NOTEBOOK
 #4024 04H8190 8MB SIMM MEMORY
 #4025 92G5582 16 MB SIMM MEMORY
 #4026 93H5583 32 MB SIMM MEMORY
 #4027 88G2974 7007: 16 MB SIMM MEMORY
 #4028 88G2976 7007: 32 MB SIMM MEMORY
 #4029 21L3874 256MB SF5 MEMORY CARD / 64MB DIMM=0798796 (4x)
 #4030 21L3874 256MB SF5 MEMORY CARD / 64MB DIMM=0798796 (16x)
 #4031 65G4617 7010: 32MB DUAL IN LINE MEM. MODULE (DIMM)
 #4032 59F4433 32MB HD1 Memory Select (+ 8 SIMMS 59F4582) 2 Cards
 #4032 81F8926 32MB HD1 MEMORY CARD / 4MB DRAM=70F9973 (8x)
 #4033 59F4433 8-32MB HD1 Memory Select (+ 8 SIMMS 59F4581)
 #4033 81F8926 32MB HD1 MEMORY CARD / 4MB DRAM=70F9973 (8x)
 #4034 81F8926 16-32 S1.5 Select (+ 8 SIMMS 70F9973)
 #4035 81F8926 64MB HD1 Memory Card (+ 8 SIMMS 70F9976)
 #4036 81F8926 16-64MB HD1 Memory Sel(model 320/930) + 8 SIMMS 70F9976)
 #4040 88G3893 7030-390/3BT: .5MB L2 cache
 #4040 1 of 4 SANTA CRUZ 1 / 08L7906 LED CABLE / 09L1693 COVER
 #4040 2 of 4 09L1760 SHIM / 09L2104 65MB DIMM / 09L2105 CACHE
 #4040 3 of 4 09L2290 BRACKET / 09L2292 COVER SET / 27H0621 SSA ADAPT
 #4040 4 of 4 32H7046 WRAP CABLE / 44L0305 BATTERY PACK
 #4041 88G4012 7030-390/3BT: 1MB L2 cache
 #4041 8185175 POWER SERIES L2 CACHE 256KB 40P
 #4042 75H5463 0.5MB TO 1MB L2 CACHE SELECT
 #4043 93H4602 7006: 0.5MB L2 cache (riser card)
 #4044 65G7929 7009: 1MB L2 Cache (CPU feature card)
 #4045 88G3894 0.5 L2 CACHE MEMORY
 #4046 88G4012 1.0 L2 CACHE MEMORY

#4050 70F9976 64MB PROCESSOR CARD SIMM MEM.
#4051 21L3872 128MB PROCESSOR CARD SIMM MEM.
#4052 21L3873 256MB PROCESSOR CARD SIMM MEM.
#4053 52G4801 32MB PROCESSOR CARD / DRAMM 4MB=70F9973 (8x)
#4054 1 of 2 64MB HD3 MEMORY CARD SELECT MEM BS 4.6=52G4801
#4054 2 of 2 4MB DRAM=70F9973 8MB DRAM=70F9976 9238
#4055 21L3872 128 MB MEMORY /MEM BASE 4.6=52G4801 Order 8 SIMM
#4056 52G4801 256MB MEMORY BASE CARD + 8 x 21L3873 32MB SIMM
#4057 21L3217 64MB S5 MEMORY + 8MB SIMM=21L3220 (8x)
#4058 21L3217 128MB S5 MEMORY + 16MB SIMM=21L3872 (8x)
#4059 21L3217 256MB S5 MEMORY + 32MB SIMM=21L3873 (8x)
#4060 39F8228 LPFK, Dials or Tablets Serial Cable (6ft) Cable-HH
#4061 39F8302 LPFK, Dials or Tablets Power Cable (6ft) Cable-JJ
#4063 52G4801 8MB HD3 Memory Card + 8 x 59F4581 SIMM
#4065 59F4436 32MB HD2 Memory Card model 7013-540 only
#4066 52G4801 16MB HD3 Memory Card + 8 x 59F4582 SIMM
#4067 52G4801 32MB HD3 Memory Card + 8 x 70F9973 SIMM
#4068 59F4582 16to32MB HD3 Memory Select (order qty 8 SIMMS)
#4069 1 of 2 64MB HD3 MEMORY CARD SELECT MEM BS 4.6=52G4801
#4069 2 of 2 4MB DRAM=70F9973 8MB DRAM=70F9976 9238
#4070 1 of 2 64MB HD3 MEMORY CARD SELECT MEM BS 4.6=52G4801
#4070 2 of 2 4MB DRAM=70F9973 8MB DRAM=70F9976
#4070 73G3233 7248: 4MB MEMORY MODULE 74G1187
#4071 1 of 2 64MB HD3 MEMORY CARD SELECT MEM BS 4.6=52G4801
#4071 2 of 2 4MB DRAM=70F9973 8MB DRAM=70F9976
#4071 52G4801 32MB to 64MB HD3 Memory Card (order 16 SIMMS 70F9976)
#4072 93H5582 7248: 16MB MEMORY MODULE PN 57G8901
#4072 93H5582 7248 43P SERIES 16MB MEMORY MODULE PN=57G8901
#4073 93H5583 7248 43P SERIES 32MB MEM MODULE PN=74G1020
#4073 04N3033 32 POS MEMORY BOARD / 44H8167 FILLER
#4074 70F9976 16 to 64MB HD3 Memory (mod 340) (order qty 8)
#4075 1 of 2 16POSITION MEM BOARD / 04N4808 MEM RISER / 23L8127 MEMCD FILR
#4075 2 of 2 44H8167 FILLER
#4076 21L3217 32MB S5 MEMORY + 4MB SIMM=39H8924 (8x)
#4077 21L3217 64MB S5 MEMORY + 8MB SIMM=21L3220 (8x)
#4078 21L3217 128MB S5 MEMORY + 16MB SIMM=21L3872 (8x)
#4079 21L3217 256MB S5 MEMORY + 32MB SIMM=21L3873 (8x)
#4080 73G3233 4MB MEMORY MODULE 43P SERIES
#4081 73G3224 8MB MEMORY MODULE 43P SERIES
#4082 93H5582 16MB MEMORY MODULE 43P SERIES
#4083 93H5583 32MB MEMORY MODULE 43P SERIES
#4085 75H5463 1MB SYNCHRONOUS L2 CACHE
#4086 21L3218 32MB S6 MEMORY CARD / 4MB SIMM=21L3219 (8x)
#4087 21L3218 64MB S6 MEMORY CARD / 8MB SIMM=21L3220 (8x)
#4088 21L3218 64MB S6 MEMORY CARD / 16MB SIMM=21L3872 (4x)
#4089 21L3218 256MB S6 MEMORY CARD / 32MB SIMM=21L3873 (8x)
#4090 21L3872 128 MB MEMORY /MEM BASE 4.6=52G4801 Order 8 SIMM
#4091 21L3872 16 to 128MB Memory (order qty 8)
#4092 21L3872 128 MB MEMORY /MEM BASE 4.6=52G4801 Order 8 SIMM

#4093 21L3875 MEMORY EXPANSION FEATURE (16 POS)
#4094 21L3872 128 MB MEMORY /MEM BASE 4.6=52G4801 Order 8 SIMM
#4095 52G4801 256MB MEMORY BASE CARD + 8 x 21L3873 32MB SIMM
#4096 52G4801 256MB MEMORY BASE CARD + 8 x 21L3873 32MB SIMM
#4097 52G4801 256MB MEMORY BASE CARD + 8 x 21L3873 32MB SIMM
#4098 1 of 2 MEMORY EXPANSION FEATURE (16 POS) LVL 4.0
#4098 2 of 2 MEMORY EXPAN.=07L7065 FILLER=44H8167(16x) FILLER=97H9431(1x)
#4100 07L9758 1024MB(2X512MB)DIMMS
#4101 42H2774 64MB EDO DRAM DIMM MEMORY SELECT
#4102 93H6822 128MB EDO DRAM DIMM MEMORY SELECT
#4105 93H7688 S70 DIMM MEMORY CARD SET
#4106 07L7729 BASE 128MB (4X32MB) DIMMS 200PIN
#4107 1 of 2 64MB (2X32MB) DIMMS, 200 PIN 10NS SDRAM
#4107 2 of 2 32MB DIMM=07L7729 FILLER=44H8167
#4108 65G4615 8 MB DIMM MEMORY
#4109 19H0288 16MB DIMM MEMORY KIT (4XDIMMS)
#4110 93H4702 256MB(2X128MB) / 44H8167 FILLER
#4111 42H2771 8MB EDO DRAM DIMM MEMORY
#4112 42H2772 16MB EDO DRAM DIMM MEMORY
#4113 42H2773 7043-140/240 7025-F40 32MB EDO DRAM DIMM MEMORY
#4114 42H2774 64MB EDO DRAM DIMM MEMORY
#4115 1 of 3 128MB EDO DRAM DIMM MEMORY 7025/26 93H6821
#4115 2 of 3 7043/140 93H6823
#4115 3 of 3 7043/240 93H6822
#4116 19H0288 16 MB DIMM MEMORY
#4117 19H0289 32MB DIMM MEMORY KIT (4XDIMMS)
#4118 35H8751 64MB DIMM MEMORY KIT (4XDIMMS)
#4119 07L9030 512MB(2X256MB) DIMM / FILLER=44H8167
#4120 09P0550 512MB(2X256MB)DIMMS
#4121 09P0491 1024MB(2X512MB)DIMMS
#4128 07L7729 32MB EDO DRAM DIMM MEMORY
#4129 42H2774 64MB EDO DRAM DIMM MEMORY
#4130 88G2976 32MB SIMM MEMORY
#4130 1 of 3 128MB EDO DRAM DIMM MEMORY 7025/26 93H6821
#4130 2 of 3 7043/140 93H6823
#4130 3 of 3 7043/240 93H6822
#4131 10L5417 1024MB(2X512MB),DIMM / 44H8167 FILLER
#4132 65G4617 32MB DIMM MEMORY
#4133 93H4702 1GM MEMORY (8x128MB),DIMM
#4134 07L9030 512MB(2X256MB) DIMM / 44H8167 FILLER
#4135 10L5417 4096MB (4GB) MEMORY
#4138 09P3218 L3 cache 128MB (4 x 32MB) 400MHz
#4139 09P3219 L3 cache 128MB (4 x 32MB) 400MHz
#4140 35H8694 64MB G Series Base Memory Card + 16MB DIMM 19H0288 (need 4)
#4141 35H8694 128MB G Series Memory Card + 32MB DIMM 19H0289 (need 4)
#4142 93H4357 256MB Memory Card Select + 16 x 19H0288 16MB DIMM
#4143 93H4357 512MB MP Memory Card + 16 x 19H0289 (32MB DIMM)
#4144 93H4357 128MB MEM SMP RIOLOBO BASE + 8x16MB DIMM 19H0288
#4145 93H4357 256MB SMP MEM RIOLOBO BASE + 32MB DIMM 19H0289 (8 needed)

#4145 19H0284 256MB MRB4 BASE CARD + 32MB SIMM 19H0271 (8 needed)
 #4146 19H0259 512MB SMP NFX MEM CARD COMPLETE
 #4146 93H4357 512MB SMP SF5 MEM BASE CARD + 32MB DIMM 19H0289 (16 needed)
 #4146 93H4357 512MB SMP MEMORY
 #4147 19H0284 256MB MRB4 BASE CARD + 32MB SIMM 19H0271 (8 needed)
 #4148 19H0259 512MB SMP NFX MEM CARD COMPLETE
 #4149 19L1808 64MB SDRAM DIMM,168PIN
 #4150 19L1809 128MB SDRAM DIMM,168PIN
 #4151 35H8694 32MB G SERIES MEM BASE CARD+19H0287 8MB SIMM (4 needed)
 #4152 35H8694 64MB G Series Base Memory Card + 16MB DIMM 19H0288 (need 4)
 #4153 35H8694 128MB G Series Memory Card + 32MB DIMM 19H0289 (need 4)
 #4154 21L3874 512MB SF5 MEMORY CARD FOR 604 NODES / 64MB DIMM=0798796
 #4154 21L3874 512MB SF5 MEMORY CARD FOR 604E NODES / 32MB DIMM=19H0289
 #4155 40H2668 64MB SMP MEM RIOLOBO COMPLETE CARD (Includes SIMM)
 #4155 93H4357 64MB SMP MEM RIOLOBO BASE CARD + 8MB DIMM=19H0287 (8 needed)
 #4155 19H0283 64MB SMP MEM MRB2 + 19H0240 8MB MD2 SIMM (8 needed)
 #4155 93H4357 64MB SMP MEM NFX BASE CARD + 8 x 8MB DIMM 19H0287
 #4156 21L3874 128MB (604) NFX CARD - also requires (16 x 19H0287 8MB DIMM)
 #4156 93H4357 128MB MEM SMP RIOLOBO BASE + 8x16MB DIMM 19H0288
 #4157 19H0284 256MB MRB4 BASE CARD + 32MB SIMM 19H0271 (8 needed)
 #4157 21L3874 256MB (604) NFX CARD - also requires (16 x 19H0288 16MB DIMM)
 #4158 19H0259 512MB SMP NFX MEM CARD COMPLETE
 #4158 21L3874 512MB (604) NFX CARD - also requires (16 x 19H0289 32MB DIMM)
 #4159 35H8694 64MB MEM MRE BASE CARD + 4x16MB 19H0288
 #4160 35H8694 64MB MEM MRE BASE CARD + 4x16MB 19H0288
 #4161 35H8694 64MB MEM MRE BASE CARD + 4x16MB 19H0288
 #4162 0798796 BASE 256MB SMP DIMMS ON 1GB CARD
 #4163 35H8694 64MB MEM MRE BASE CARD + 4x16MB 19H0288
 #4164 39H9837 64MB DIMM MEMORY
 #4165 0798796 (4x) 256MB SMP DIMMS ON 1GB MEM CARD + NFX BASE=21L3874
 #4165 21L3874 256MB SF5 MEMORY CARD FOR 604 NODES / 16MB DIMM=19H0288
 #4166 0798796 (4x) 256MB SMP DIMMS ON 1GB MEM CARD + NFX BASE=21L3874
 #4167 0798796 1GB SMP DIMMS ON 1GB CARD + MEM BASE=93H4357
 #4167 21L3874 1GB SF5 MEMORY CARD / 64MB DIMM=35H8751 (16x)
 #4168 73H3451 128MB DIMM MEMORY
 #4169 29L3302 256MB SDRAM DIMM, 168PIN
 #4169 19L1810 256MB SDRAM DIMM,168PIN
 #4170 90H9828 256MB MEM
 #4171 90H9831 512MB R1 MEMORY GROUP / FILLER P/N 21H6950
 #4173 90H9834 1024MB R1 MEM GROUP(4X256MB)/FILLER P/N=21H6950/1024MB=97H6204
 #4174 90H9834 1024MB R1 MEM GROUP(4X256MB)/FILLER P/N=21H6950/1024MB=97H6204
 #4175 90H9837 2048MB R1 MEMORY GROUP (4X512MB) / 1024MB=97H6213
 #4176 90H9837 2048MB R1 MEMORY GROUP (4X512MB) / 1024MB=97H6213
 #4177 90H9840 4096MB R1 MEMORY GROUP (4X1024MB) / 4096MB=97H6226
 #4178 90H9840 4096MB R1 MEMORY GROUP (4X1024MB) / 4096MB=97H6226
 #4179 97H6244 8192MB R1 Memory (4X2048MB CARDS)
 #4180 97H6244 8192MB R1 Memory (4X2048MB CARDS)
 #4181 53P5604 7040: 8GB Memory I
 #4182 53P5628 7040: 8GB Memory O

#4183 53P5606 7040: 16GB Memory I
#4184 53P5630 7040: 16GB Memory O
#4185 0798796 256MB SMP DIMM ON 1GB CARD MODEL UPDATE ONLY MEM BASE=93H4357
#4186 0798796 256MB SMP DIMM KIT
#4188 53P5608 7040: 32GB Memory
#4189 53P5632 7040: 32GB Memory
#4190 8184190 6015 7020: GXT150P ADAPTER / VIDEOCABLE 96H2688 + 96G2689
#4190 23L7566 1024MB (4 X 256MB)
#4191 23L7570 2048MB (4 X 512MB)
#4192 04N4994 4096MB (4 X 1024MB)
#4193 04N5004 8192MB (4 X 2048MB)
#4194 04N5011 16384MB (4 X 4096MB)
#4195 04N5531 32768MB H99 MEMORY (4 x 8192MB)
#4196 53P5603 7040: 4GB Memory I
#4197 53P5627 7040: 4GB Memory O
#4201 91F0629 7010: 1MB Video Memory Upgrade Kit (X-Station 130 only)
#4201 36G3296 DISK DRIVE 2.0GB OBSOLETE CAN NOT BE ORDERED
#4202 36G3298 TAPE DRIVE MODULE 2.3GB 8MM CAN NOT BE ORDERED
#4203 36G3297 DISK DRIVE MODULE 2.4GB OBSOLETE CAN NOT BE ORDERED
#4204 92F3337 7010: PS/2 4mb Video Memory Expansion Kit (X-Station-130 only)
#4204 36G3299 TAPE DRIVE MODULE 5GB 8MM OBSOLETE CANNOT BE ORDERED
#4205 36G3300 TAPE DRIVE MODULE 2GB 4MM OBSOLETE CANNOT BE ORDERED
#4205 65G4548 7010: PERS. COMPUT. INTERCONNECT PCI BUS CONNECTOR
#4206 36G3301 CD ROM MODULE OBSOLETE CANNOT BE ORDERED
#4206 74F3158 7235 POWER GTO ACC. FEATURE
#4207 93G1472 DISKDRIVE MODULE 2GB OBSOLETE CANNOT BE ORDERED
#4207 51G7773 POWER GT1X GRAPHICS ADAPTER
#4208 10G8659 POWER Gt1 Adapter (mod220)
#4208 93G1474 DISKDRIVE MODULE 4GB OBSOLETE CANNOT BE ORDERED
#4209 00G2393 POWER Gt1 VRAM Upgrade
#4210 43G0681 GT3I GRAPHIC ADPT/RGB CB EXT=58F2903 / CARD LATC=59F4089L
#4210 99F5797 ETHERNET PROC. CARD OBSOLETE CANNOT BE ORDERED
#4211 93H2945 GT4E GRAPH ADPT RGB CB EXT=58F2903 / CARD LATC=59F4089
#4212 51G7773 POWER GT1X GRAPHICS ADAPTER
#4213 52G3282 13W3 TO 15-PIN D-SHELL to 13W3 CONVERTER CABLE for DISPLAY
#4214 51G8290 7010: 13W3 TO 3BNC 60/77HZ DISPLAY CABLE Xstation to 6091
#4215 93F0331 TOKEN RING FEATURE X-Station / TOKEN RISER = P/N 59F3736
#4216 59F3736 7010: TOKEN RISER X-STATION / RISER SCREW = P/N 70F9995
#4217 58F2901 7010: 6091 Att Cable Cable-WW 6ft 15-D-to-5BNC
#4217 58F2903 This cable comes with the adapter and has no feature code.
#4218 6339098 7010: Token-Ring Adapter Cable X-Station only
#4219 09G3541 6091-19i (77HZ-ISO) CABLE, POWERDISPLAY 17/19/20 13W3-to-3BNC
#4220 70F9814 7010: Ethernet Connector Converter
#4221 73H1668 ETHERNET AUI/THIN RISER
#4222 00G1276 ETHERNET TWISTED PAIR RISER
#4223 1 of 2 Ethernet 10Base2 Transceiver (Thin Cable)
#4223 2 of 2 CONVERTER=02G7437 / T-CABLE=02G7434 / WRAP PLUG=02G7433
#4224 1 of 2 Ethernet 10BaseT Transceiver (Twisted Pair)
#4224 2 of 2 CONVERTER=02G7431 / T-CABLE=02G7434 / WRAP PLUG=00G2380

#4225 65G4381 System Board 7010-140 Token-Ring Integrated
#4226 65G1977 System Board 7010-140 Ethernet Integrated
#4226 65G4634 7010: W #4203) ETHERNET WITH 4MB VRAM DESIGNATOR
#4227 51G8563 SUN COMPATIBLE DISPLAY CONVERTER CABLE
#4228 09G3588 POWER GT1 TO 5 BNC CONNECTOR CABLE
#4228 52G0895 GT1 HIGH DENSITY 15-PIN-D TO 1091 5-BNC CABLE
#4229 09G3589 POWER GT1X 13W3 TO 5 BNC CONNECTOR CABLE (POWERdisplay)
#4230 43G0681 POWER Gt3i
#4230 05G3675 STORAGE PROC CARD - OBSOLETE - CANNOT BE ORDERED
#4231 93H2945 POWER Gt4e
#4232 74F3158 7235 POWER GtO Accelerator Adapter Select
#4233 65G4622 7010: 2MB TOKENRING PLANAR
#4233 65G4635 7010: W #4203) TOKENRING WITH 4MB VRAM DESIGNATOR
#4234 96G2689 Cable P Series Monitor ID - 13W3-to-13W3 1010
#4235 96G2688 Cable P Series Monitor ID - 15-D-to-13W3 1010
#4235 36G3313 WRITE ACCELERATOR CARD OBSOLETE CANNOT BE ORDERED
#4236 40H2934 3W3 TO 13W3 DISPLAY CABLE
#4237 96G1712 Cable P201 15-D-to-13W3 - DDC/1010
#4238 96G2156 Cable P-Series Monitor ID - 15-D-to-13W3
#4239 39H8683 15-D ADAPTER TO 3BNC ID CABLE
#4240 96G2157 Cable P Series Monitor DDC 13W3-to-13W3
#4240 05G3681 16MB CACHE STORAGE CARD OBSOLETE CANNOT BE ORDERED
#4240 96G2157 DDC 13W3 TO 13W3 DISPLAY CABLE
#4241 60H7742 Cable P201 only 13W3-to-13W3 DDC/1010
#4242 07L9633 6 FOOT EXTENDER CABLE FOR DISPLAY(15 PIN D SHELL TO 15 PN)
#4242 36G3314 64MB CACHE STORAGE CARD OBSOLETE CANNOT BE ORDERED
#4243 36G3453 64MB ADDITIONAL CACHE STORAGE MODULE
#4243 09P4020 7316: 7-foot VGA cable
#4244 09P4021 7316: 12-foot VGA cable
#4245 09P4022 7316: 20-foot VGA cable
#4244 1 of 2 64MB CACHE STORAGE CARD=05G3681 / CARD ASM=36G3453
#4244 2 of 2 OBSOLETE CANNOT BE ORDERED / JUMPER=61X7052
#4280 36G3321 5-SLOT STORAGE SHELF OBSOLETE CANNOT BE ORDERED
#4285 05G3678 4 SHELF POWERSUPPLY OBSOLETE CANNOT BE ORDERED
#4290 05G3672 EMPTY SHELF COVER ORDER ON EMERGENCY BASIS ONLY
#4291 36G3218 EMPTY SLOTCOVER ORDER ON EMERGENCY BASIS ONLY
#4301 09J4712 DUAL POWERPC 604 112MHZ PROC CARD WITH 1MB L2 CACHE
#4302 35H8748 601 PROCESSOR CARD (CPU)
#4304 09J4712 DUAL 604 112MHZ UPGRADE WITH 1MB L2 CACHE PER PROCESSOR
#4306 11H7517 POWERPC 604E 166MHZ PROC CARD WITH 512KB L2 CACHE
#4307 93H2679 POWERPC 604E 166MHZ 1-WAY PROCESSOR
#4308 73H3614 POWERPC 133MHZ 604 PROC CARD WITH 512MB L2 CACHE
#4309 73H4768 POWERPC 604E 166MHZ 2-WAY PROCESSORS
#4310 93H7143 POWERPC 604E 200MHZ PLUGGABLE
#4311 93H9018 POWERPC 604E, 332MHZ, 1-WAY PROCESSOR CARD WITH 256KB CACHE
#4312 93H3233 166MHZ POWERPC 604E PROCESSOR UPGRADE
#4313 93H2431 166MHZ POWERPC 604E PROCESSOR 512KB L2 CACHE
#4314 93H2431 166MHZ POWERPC 604E PROCESSOR 512KB L2 CACHE
#4315 93H6023 233MHZ PLUGGABLE PROCESSOR UPGRADE

#4317 94H1008 RS64 II PROCESSOR CARD, 1 / 41L5604 FILLER CD
#4318 93H6023 233MHZ PLUGGABLE PROCESSOR UPGRADE
#4319 94H1008 RS64 II PROCESSOR CARD, 2 / 41L5604 FILLER CD
#4320 21L3216 POWERPC 604E, 332MHZ, 2-WAY PROCESSOR CARD WITH 2X256KB CACHE
#4321 93H9004 2.2GB SCSI-2 F/W HOT SWAP DISK DRIVE BOOK MODULE
#4322 93H9005 4.5GB SCSI-2 F/W HOT SWAP DISK DRIVE BOOK MODULE
#4324 94H0389 604E SMP 2W, 200MHZ, 2MB/PROC
#4325 93H9005 4.5GB SCSI-2 F/W HOT SWAP DISK DRIVE BOOK MODULE
#4326 59H6926 9.1GB ULTRA-SCSI HOT SWAP DISK DRIVE BOOK MODULE
#4328 59H6926 9.1GB ULTRA-SCSI HOT SWAP DISK DRIVE BOOK MODULE
#4330 93H1572 SCSI CABLE, 1.5M, LEFT BAYS
#4331 93H1573 SCSI CABLE, 1.5M, RIGHT BAYS
#4332 93H1574 SCSI CABLE, 3.0M, LEFT BAYS
#4333 93H1575 SCSI CABLE, 3.0M, RIGHT BAYS
#4334 40H7398 DIFF/SE CONVERTER, BUS #1 SCREW=1621170 NUT=1622401
#4335 40H7398 DIFF/SE CONVERTER, BUS #2 SCREW=1621170 NUT=1622401
#4336 94H0389 604E SMP, 200MHZ, 2MB/PROC L2,
#4337 -----> MEDIA BAY MODULE OPTION SCREW=1673984 and ????
#4339 93H2232 REDUNDANT POWER MODULE OPTION
#4340 93H5163 233MHZ 604E PROCESSOR 1MB L2 CACHE
#4341 93H5163 233MHZ 604E PROCESSOR 1MB L2 CACHE
#4342 94H1169 PROCESSOR, 1-WAY,630, 200MHZ
#4344 93H3456 233MHZ 604E PROCESSOR WITH 512 KB L2 CACHE
#4345 93H3456 233MHZ 604E PROCESSOR WITH 512 KB L2 CACHE
#4347 1 of 2 POWERPC 604E 332MHZ PLUGGABLE PROCESSOR UPGRADE
#4347 2 of 2 332MHZ PLANAR=93H9334 HEATSNKFAN=09P5421
#4348 09P5763 POWERPC 604E 375MHZ PLUGGABLE PROCESSOR
#4349 09P0277 PROC 1WY 630+ 333MHZ / 03N4134 FAN
#4350 74F3158 7235 POWER GTO ACC. FEATURE
#4351 07H8985 SSA INTERCONNECT CABLE, 1.0M
#4352 32H1465 SSA INTERCONNECT CABLE, 2.5M
#4353 03N3493 8DROP H100 CABLE
#4354 1 of 3 ULTRA DIFF/SINGLE-ENDED CONV BUS #1
#4354 2 of 3 SCREW=1621170 / SPACER=74G8269 / BRACKET=93H8008
#4354 3 of 3 JUMPER CABEL=93H8282 / DE/SE CONC=93H9007
#4355 1 of 3 ULTRA DIFF/SINGLE-ENDED CONV BUS #2
#4355 2 of 3 SCREW=1621170 / SPACER=74G8269 / BRACKET=93H8008
#4355 3 of 3 JUMPER CABEL=93H8282 / DE/SE CONC=93H9007
#4356 93H9018 POWERPC 604E3 332MHZ 1-WAY PROCESSOR CARD
#4357 93H8945 POWERPC 604E3 332MHZ 2-WAY PROCESSOR
#4358 93H9018 POWERPC 604E3 332MHZ 1-WAY PROCESSOR CARD
#4359 93H8945 POWERPC 604E3 332MHZ 2-WAY PROCESSOR
#4360 09P0272 PROC 1WY 630+ 400MHZ
#4361 09P0399 1-WAY, 630+ 375MHZ
#4362 09P0406 2-WAY, 630+ 375MHZ
#4363 09P5764 7043-150 250MHZ PLANAR
#4364 09P0943 1-WAY, 630+ 450MHZ
#4365 09P0143 2-WAY, 630+ 375 8MB
#4402 93H4702 9076: 2GB Memory (16 x 128MB DIMM 93H4702)

#4403 93H4702 9076: 3GB Memory (24 x 128MB DIMM 93H4702)
#4404 93H4702 9076: 4GB Memory (32 x 128MB DIMM 93H4702)
#4412 07L9030 9076: 4GB Memory (16 x 256MB DIMM 07L9030)
#4413 07L9030 9076: 6GB Memory (24 x 256MB DIMM 07L9030)
#4414 07L9030 9076: 8GB Memory (32 x 256MB DIMM 07L9030)
#4421 07L9758 9076: 4GB Memory (8 x 512MB DIMM 07L9758)
#4445 09P4478 450MHz Processor 2-way 8MB I2cache
#4451 53P3224 1GB (4 x 256MB) DIMMs
#4452 53P3226 2GB (4 x 512MB) DIMMs
#4453 53P3230 4GB (4 x 1GB) DIMMs
#4454 53P3232 8GB (4 x 2GB) DIMMs
#4480 53P4242 7040: 4GB Memory I 567MHz
#4481 53P4273 7040: 4GB Memory O 567MHz
#4482 53P4247 7040: 8GB Memory I 567MHz
#4483 53P4278 7040: 8GB Memory O 567MHz
#4484 53P4252 7040: 16GB Memory I 567MHz
#4485 53P4283 7040: 16GB Memory O 567MHz
#4486 53P4259 7040: 32GB Memory I 567MHz
#4487 53P4290 7040: 32GB Memory O 567MHz
#4488 53P4266 7040: 64GB Memory I 567MHz
#4489 53P4297 7040: 64GB Memory O 567MHz
#4950 68G5268 2MB Flash Memory for 7010-150
#4951 03N3952 4PT ENET 10/BASE T
#4952 68G5269 4MB Flash Memory for 7010-150
#4954 65G4632 7010: 10MB PCMCIA FLASH MEMORY
#4955 65G4540 7010: PCMCIA FLASH ATTACHMENT
#4956 65G4633 7010: 20MB PCMCIA FLASH MEMORY
#4958 10J0593 CRYPTOGRAPHIC ADAPTR
#4959 00P1476 4/16/100 TOK RNG PCI / 04H7648 WRAP PLUG
#4961 09P1421 4-Port 10/100 Ethernet Base-TX
#4962 09P5023 PCI 10/100 Ethernet
#5000 TSP Specify Code
#5002 07H9163 0.18M SSA COPPER CABLE
#5004 Color Display Stand for 8512
#5006 31H7960 0.6 M SSA COPPER CABLE
#5008 07H8985 0.80M SSA COPPER CABLE
#5009 Aix Operating System Preload
#5010 AIX DirectTalk/6000 Preload
#5010 07H8985 0.80M SSA COPPER CABLE
#5020 RS-232 Cable for 5085
#5020 32H1465 2.00M SSA COPPER CABLE
#5025 32H1465 2.00M SSA COPPER CABLE
#5033 21L3220 S6 MEMORY MES UPGRADE KIT, 32MB TO 64MB
#5034 21L3872 S6 MEMORY MES UPGRADE KIT, 32MB TO 128MB
#5035 21L3873 S6 MEMORY MES UPGRADE KIT,32MB TO 256MB
#5036 21L3872 S6 MEMORY MES UPGRADE KIT,64MB TO 128MB
#5037 21L3873 S6 MEMORY MES UPGRADE KIT,64MB TO 256MB
#5038 21L3873 S6 MEMORY MES UPGRADE KIT,128MB TO 256MB
#5040 IEEE 488 for IEEE Attachment

#5040 11H2447 SCSI-2 Diff,High-Performance Ext. I/O Ctrl (for 3490E model C)
#5040 05H3886 3490: Interposer Diff SCSI-2 61G8323 TERMINATOR 61G8324
#5050 RS-232 Cable for PC Attachment
#5050 88G6404 5.00M SSA COPPER CABLE
#5060 6180 Programming manual
#5064 1 of 2 64MB HD3 MEMORY CARD SELECT MEM BS 4.6=52G4801
#5064 2 of 2 4MB DRAM=70F9973 8MB DRAM=70F9976 9238
#5070 Supplies Kit
#5100 32H1466 7133: SSA Copper Cable 10m
#5105 62G1023 3490: Cable Differential SCSI-2 F/W Cable - 0.5m
#5106 05H4644 3590: Cable SCSI - 0.6 meter
#5109 09L3393 2104: 7200 RPM Ultra2 9.1GB LVD hard disk
#5112 05H4649 3590: Cable SCSI - 12 meters
#5112 62G1019 3490: Cable Differential SCSI-2 F/W Cable - 12m
#5118 05H4650 3590: Cable SCSI - 18meters
#5118 62G1020 3490: Cable Differential SCSI-2 F/W Cable - 18m
#5118 09L3394 2104: 7200 RPM Ultra2 18.2GB LVD hard disk
#5125 62G1021 3490: Cable Differential SCSI-2 F/W Cable - 25m
#5128 05H4647 3590: Cabel SCSI - 2.8 meters
#5128 62G1017 3490: Cable Differential SCSI-2 F/W Cable - 2.8m
#5129 21L3872 128 MB MEMORY /MEM BASE 4.6=52G4801 Order 8 SIMM
#5134 05H4645 3590: Cable SCSI - 3.4 meter
#5136 09L3395 2104: 7200 RPM Ultra2 36.4GB LVD hard disk
#5138 05H4646 3590: Cable SCSI - 4 meters
#5145 05H4648 3590: Cable SCSI - 4.5 meters
#5145 62G1018 3490: Cable Differential SCSI-2 F/W Cable - 4.5m
#5200 32H1466 10.0M SSA COPPER CABLE
#5200 04N6930 500MHZ 2WCPU PROC
#5201 04N4765 1WAY 450MHZ 2MB L2 / 04N2934 FILLER / 44H8167 FILLER
#5202 03P0062 RS64-III 2-way 450MHz processor card
#5203 04N6931 500MHZ 4WCPU PROC
#5204 03P0070 RS64-III 4-way 450MHz processor card
#5206 03P0085 RS64-III 6-way 500MHz processor card
#5209 09L3391 2104: 10000 RPM Ultra2 9.1GB LVD hard disk
#5212 49G6458 12M SCSI CABLE FOR M/T 3570 / 7208
#5218 49G6459 18M SCSI CABLE FOR M/T 3570 / 7208
#5218 09L3392 2104: 1000 RPM Ultra2 18.2GB LVD hard disk
#5245 49G6457 4,5M SCSI CABLE FOR M/T 3570 / 7208
#5250 88G6406 25.0M SSA COPPER CABLE
#5301 35H8750 DUAL 2WAY 601 PROC CARD 0.5MB/L2 PROCESSOR
#5302 35H8750 DUAL 2WAY 601 PROC CARD 0.5MB/L2 PROCESSOR
#5303 09J4714 604 1W, BASE, 112MHZ, 0.5MB L2 (FOR G40)
#5304 93H6274 604e SMP 2-WAYS 187MHZ PROCESSOR CARD WITH 2MB L2 CACHE
#5304 93H6274 187MHz is now 200MHZ with last P/N 93H6274
#5305 09J4714 604 1W, BASE, 112MHZ, 0.5MB L2 (FOR G40)
#5306 93H6274 187MHz is now 200MHZ with last P/N 93H627
#5307 35H8750 DUAL 2WAY 601 PROC CARD 0.5MB/L2 PROCESSOR
#5308 93H6274 187MHz is now 200MHZ with last P/N 93H627
#5310 90H9662 POWERPC-1 PROCESSOR, 4W SMP, 125MHZ, 4MB L2 CACHE (RIGHT HAND)

#5311 90H9694 POWERC-1 PROCESSOR 4W SMP 125MHZ 4MB L2 CACHE(LEFT HAND)
 #5312 08L1473 RS64-2 PROCESSOR,4-WAY SMP,262MHZ 8MB L2 CACHE(RIGHT HAND)
 #5313 08L1474 RS64-2 PROCESSOR,4-WAY SMP 262MHZ 8MB L2 CACHE LEFT HAND
 #5314 08L1473 RS64-2 PROCESSOR,4-WAY SMP,262MHZ 8MB L2 CACHE(RIGHT HAND)
 #5316 08L1473 RS64-2 PROCESSOR,4-WAY,262 MHZ,8MB L2 CACHE (RIGHT HAND)
 #5317 08L1474 RS64-2 PROCESSOR,4-WAY,262 MHZ,8MB L2 CACHE (LEFT HAND)
 #5318 09P0158 450MHZ 6W PROC RTHND
 #5319 09P0159 450MHZ PROC LEFT HND
 #5320 21P4511 S-STAR6W 600MHZ PROC
 #5321 21P4517 S-STAR6W 600MHZ PROC
 #5500 1 of 2 7133: SSA Fiber extender (pair)
 #5500 2 of 2 OPT LINK= 32H7048 / WRAP PLUG 32H7049 / NAPPA EXT=02L7789
 #5604 32H1465 7133: Cable SSA 2.5m
 #5605 88G6404 7133: Cable SSA 2.5m
 #5704 32H1465 7133: Cable SSA 2.5m
 #5705 88G6404 7133: Cable SSA 2.5m
 #5706 32H1466 7133: Cable SSA 10m
 #5707 88G6406 7133: Cable SSA 25m
 #5801 07H9163 7133: Cable 0.18m
 #5803 07H8985 7133: Cable SSA 0.8m
 #5904 32H1465 7133: Cable SSA 2.5
 #5905 88G6404 7133: Cable SSA 2.5m
 #5922 86F0921 PS/2 HIGH AVAILABLE DISK ARRAY OPTION NUMBER 86F0923
 #5930 06H9543 6015: 270MB Disk Drive
 #5933 82G5933 7020: 720MB SCSI HDD PN 66G9694
 #5992 21H7375 JTAG 3MT CEC-PRIM DR
 #5993 97H7486 JTAG 6MT CEC PRIME I/O
 #6000 21H7375 JTAG CEC TO PRIM 3M
 #6002 -----> ASYN ADAPTER 6193 / ASYN F2 CARD=53F3621 ASYN PLAN=59F3785
 #6003 93H3561 8 MCA SLOT EXPANSION (80mb/s)
 #6004 07L7346 SYSTEM TO SYSTEM POWER CABLE, 2.5 M
 #6005 1 of 2 DUAL POWER CTRL CABLE / POWERCON EXT=00G1277
 #6005 2 of 2 WASHER=1622347 / SCREW=1624779 / CABLE=42F6839
 #6006 61G8326 SCSI Cable 0.6m
 #6006 09P1251 I/O DRAWER TO DRAWER POWER CONTROL CABLE 3M (SPCN)
 #6007 21H9358 I/O RACK TO RACK POWER CONTROL CABLE 15M (SPCN)
 #6008 21F9469 PWR CONTROL CBL 6MTR (SPCN)
 #6010 51G8572 KEYBOARD US 101 KEYS + KBD CABLE=1394608
 #6011 1394543 KBD 102 KEYS BELGIAN DUTCH/FRENCH + KBD CABLE=1394609
 #6012 1394541 KEYBOARD 102 KEYS CANADIAN FRENCH
 #6013 1394544 KEYBOARD 102 KEYS DANISH + KBD CABLE 1394609
 #6014 1394545 KEYBOARD 102 KEYS FINNISH + KBD CABLE 1394609
 #6015 1394546 KEYBOARD 102 KEYS FRENCH + KBD CABLE 1394609
 #6016 1394542 KEYBOARD 102 KEYS GERMAN + KBD CABLE 1394609
 #6017 1394547 KEYBOARD 102 KEYS ITALIAN + KBD CABLE 1394609
 #6018 88G3936 KEYBOARD 102 KEYS BRAZILIAN
 #6019 1394548 KEYBOARD 102 KEYS NORWEGIAN + KBD CABLE 1394609
 #6020 1394549 KEYBOARD 102 KEYS PORTUGUESE + KBD CABLE 1394609
 #6021 1394550 KEYBOARD 102 KEYS SPANISH + KBD CABLE 1394609

#6022 1394551 KEYBOARD 102 KEYS SWISS + KBD CABLE 1394609
#6023 1395985 KEYBOARD 102 KEYS UK ENGLISH + KBD CABLE 1394609
#6024 1395968 KEYBOARD 102 KEYS ICELANDIC + KBD CABLE 1394609
#6025 1396077 KEYBOARD 102 KEYS TURKISH + KBD CABLE 1394609
#6026 1396078 KEYBOARD 102 KEYS GREEK + KBD CABLE 1394609
#6027 1396080 KEYBOARD 102 KEYS HEBREW + KBD CABLE 1394609
#6028 1396079 KEYBOARD 102 KEYS ARABIC + KBD CABLE 1394609
#6030 30F9388 KEYBOARD 102 KEYS JAPANESE - KANJI)
#6031 02G7352 KEYBOARD 102 KEYS KOREAN
#6033 02G7353 KEYBOARD 102 KEYS CHINESE TRADITIONAL - TAIWAN
#6034 43G2778 KEYBOARD DUTCH
#6035 43G2775 KEYBOARD TURKEY
#6041 76H5084 3 BUTTON MOUSE
#6045 61G8328 SCSI Cable 4.5m
#6081 11P0463 BLK TRIM KIT NO DOOR
#6082 -----> WHITE TRIM KIT NO DR / 05N6803 TRIM 42U / 11P0489 WHITE TRIM
#6083 1 of 2 IBM FRT DR BLK / 11P0319 F DOOR BLK / 31L7540 SCRWM5X8
#6083 2 of 2 31L7545 PLATE / 31L7547 HINGE,DOOR / 31L8594 SCRW M5X12
#6085 1 of 2 OEM FRT DR WHITE / 05N4865 HINGE WHIT / 05N4866 LATCH PLAT
#6085 2 of 2 11P0318 DOOR WHT / 31L7540 SCRWM5X8 / 31L8594 SCRW M5X12
#6086 11P0423 SIDE ATTACH KIT BLK
#6087 11P0424 SIDE ATTACH KITWHITE
#6088 1 of 2 FR DOOR B/C 1.8M RK / 21P4042 HINGE / 21P4043 BRACKET
#6088 2 of 2 21P4049 DOOR BL/CP / 31L7540 SCRWM5X8 / 31L8594 SCRW M5X12
#6090 -----> TOP CABLE ACESS AND CONCRETE BOLT-DOWN / NO SINGLE P/N
#6091 -----> RAISED FLOOR BOLT-DOWN / NO SINGLE P/N
#6092 -----> TOP CBL ACC.+CONCRET BOLT-DOWN WITH DC INPUT PWR/NO SINGLE P/N
#6093 -----> RAISED FLOOR BOLT-DOWN WITH DC INPUT POWER / NO SINGLE P/N
#6094 1 of 2 TOP CABLE ACCESS FOR EXTERNAL I/O DEVICES (NOT FOR EMEA)
#6094 2 of 2 TOP PLATE=52G1605 / EPO MODUL=70F9715
#6095 42F6841 POWER CORD FOR PDU TO EXTERNAL I/O DEVICE (NOT FOR EMEA)
#6098 05N6478 OPT BLACK SIDE PANEL
#6099 05N6477 OPT WHITE SIDE PANEL
#60XX 1394609 CABLE FOR KEYBOARDS
#6100 -----> DASD DRAWER (HARRIER I) / NO SINGLE P/N
#6104 31L8302 RK / RK SIDE ATTCH KIT
#6105 05N4658 RK / RK WHT SIDE ATTCH KIT
#6106 1 of 2 OPT WHITE FRONT DOOR / 05N4865 HINGE WHIT / 05N4866 LATCH PLAT
#6106 2 of 2 12K0456 FR DOOR WH / 31L7540 SCRWM5X8 / 31L8594 SCRW M5X12
#6107 05N6800 BLACK TRIM KIT NO DR
#6108 05N6802 WHITE TRIM KIT NO DR
#6110 1 of 3 DC POWER DISTRIBUTION PANEL FOR CPU RACK / SCREW=93H4919
#6110 2 of 3 SCREW=1621230 / GND CABLE=40H0456 / GND JUMPER=65G3503
#6110 3 of 3 COVER=93H4918
#6112 -----> DUAL POWER DISTRIBUTION PANEL I/O DRAWER / NO SINGLE P/N
#6115 1 of 2 DC POWER DISTRIBUTION PANEL FOR STORAGE RACK / PDP OEM=93H7919
#6115 2 of 2 SCREW=162130/ GND CABLE=40H0456/ COVER=93H4918 / SCREW=93H4919
#6116 -----> DC PWR DISTRIBUT. SELECT FOR MULTIPURPOSE RACK / NO SINGLE P/N
#6120 61G8329 SCSI Cable 12m

#6130 70F9042 857MB SERIAL DASD / CSP 857MB=07H7781
 #6132 44L0033 CEC POW CON CABL 2MT
 #6133 70F9042 857MB SERIAL DASD / CSP 857MB=07H7781
 #6135 07G4859 SERIAL LINK DISK DRAWER SELECT WITH DC INPUT POWER
 #6136 97H7328 CEC POW CON CABL 6MT
 #6137 76H0473 24/48GB 4MM DDS-2 TAPE AUTO LOADER INT (VERT) (HIDALGO)
 #6138 19H0204 CRU FOR INTERNAL 8MM TAPE SNOWBIRD
 #6139 19H0213 CRU FOR 4 MM INTERN. TAPEDRIVE RHAPSODY
 #6140 61G8327 SCSI Cable 14m
 #6140 56F0091 1/2 9 TRACK TAPE DRIVE DRAWER
 #6141 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6141 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6141 3 of 3 ISOLATOR=00G3295
 #6141 59H3159 5GB/10GB 8MM INT TAPE DRIVE / MEDIA KIT 21H5162
 #6142 59H3481 4mm 4GB/8GB Tape drive / 4MM CART=8191149 / SCREW=1621176
 #6143 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6143 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6143 3 of 3 ISOLATOR=00G3295
 #6144 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6144 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6144 3 of 3 ISOLATOR=00G3295
 #6145 59H3481 TAPE DRIVE ASM (4GB) FOR M/T 7131 and 7009
 #6146 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6146 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6146 3 of 3 ISOLATOR=00G3295
 #6147 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6147 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6147 3 of 3 ISOLATOR=00G3295
 #6147 59H3159 5GB/10GB 8MM INT TAPE DRIVE + MEDIA KIT 21H5162
 #6148 59H3159 5GB/10GB 8MM INT TAPE DRIVE + MEDIA KIT 21H5162
 #6148 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6148 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6148 3 of 3 ISOLATOR=00G3295
 #6149 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE 8MM=16G8421 / ISOLATOR=00G3294
 #6149 2 of 3 SCREW=0010170 /MEDIA KIT=21H5162 RAIL=42F7344
 #6149 3 of 3 ISOLATOR=00G3295
 #6150 -----> BACKUP OPTION / NO SINGLE P/N
 #6151 02G7552 Battery Backup Extender Cable 10ft
 #6151 16G8404 2GB 4MM TAPE DRIVE
 #6152 59H3480 7248: 4GB 4MM SCSI TAPE DRIVE PN=8185415
 #6152 59H3536 7020: 4GB 4MM TAPE DRIVE
 #6153 76H0474 24/48GB 4MM DDS-2 TAPE AUTOLOADER INT / CARTRIDGE=21F8763
 #6154 1 of 2 20/40GB 16-BIT 8MM INTERNAL TAPEDRIVE=59H2839 / SCREW=33G3907
 #6154 2 of 2 TEST_TAPE=59H2677 DATATAPE=59H2678 CLEAN TAPE=59H2898
 #6155 07G4860 SERIAL LINK ADDITIONAL SYSTEM ATTACH CABLE
 #6156 1 of 2 20/40GB 16-BIT 8MM INT.TAPE DRIVE=59H4120 / CLEAN TAPE=59H2898
 #6156 2 of 2 SCREW=33G3907 / TEST TAPE=59H2677 / DATA TAPE=59H2678
 #6158 19P0802 20/40GB 4mm DDS-4 Internal Tape Drive
 #6159 1 of 3 INTERNAL 12/24GB 4MM INTERNAL TAPE DRIVE=59H3879

#6159 2 of 3 ADP 50/60=06H6890 / SCREW(4x)=33G3907 / 4MM TAPECL=21F8763
 #6159 3 of 3 DATA CART=59H3465 / CARTRIDGE=59H3466 / BEZEL BLACK=59H4118
 #6160 93H8406 9-TRACK 1/2" TAPE DRAWER AND PCI SCSI ADAPTER
 #6171 1 of 2 POWER DISTRIBUTION UNIT SIDE MOUNT, SINGLE PHASE
 #6171 2 of 2 PDU WT=93H6451 / PDB US W/T=93H6661
 #6173 1 of 2 POWER DISTRIB UNIT SIDE MOUNT,THREE PHASE / LNCORD 32A=88G4763
 #6173 2 of 2 PDH 2 PH=93H6662/SCREW=00G1268/L WASHER=1622346/SCREW=1624779
 #6174 1 of 2 POW DISTR UNIT 3-PHASE, SIDE MOUNT, SWISS / LNCORD 16A=88G4764
 #6174 2 of 2 PDU SWISS=93H6663/SCREW=00G1268/L WASHER=1622346/SCREW=1624779
 #6175 93H3512 CLUSTER POWER CONTROLLER / CPC CABLE=93H4735+93H4364
 #6176 68X3874 NULL MODEM CABLE: CPC TO TTY 3METER
 #6177 93H4735 NULL MODEM CABLE: CPC TO CPC
 #6178 93H4364 NULL MODEM CABLE: CPC TO CPU
 #6180 61G8330 SCSI Cable 18m
 #6180 12H1605 PWR CONTRL INTERPOSER CABLE 3M
 #6185 09P2653 20/40GB 4mm Internal Auto-docking Tape Drive
 #6190 -----> TOP CABLE ACCESS/GUIDE WITH AC POWER No parts
 #6191 -----> OPTIONAL DC POWER / NO SINGLE P/N
 #6192 -----> TOP CABLE ACCESS/GUIDE WITH DC POWER No parts
 #6193 -----> OPT 1KW P/S 18W/24W / 21H7719 1KW POWSUP / 87G6045 PWR FILLER
 #6194 -----> OPT PROG PWR REG / 21H7475 FILLER / 21H7763 PREGULATOR
 #6195 -----> OPT PROCESSOR POWREG / 23L3606 REG FILLER / 23L3613 PWR SUPPLY
 #6196 24L0965 PWR REG 2W/4W CONFGS
 #6197 24L0964 PWR REG 2W/4W/6W/8W
 #6202 39H8179 ULTIMEDIA ADAPTER
 #6203 09P2544 Ultra3 SCSI
 #6204 11K0671 ULTRA SCSI DIFF EXT.
 #6205 03N3606 2INT-P/2EXT-VHDCI / 75H8319 BRKT BLANK
 #6206 93H3809 PCI SINGLE-ENDED ULTRA SCSI ADAPTER
 #6207 40H6595 PCI DIFFERENTIAL ULTRA SCSI ADAPTER
 #6208 93H8406 PCI SCSI-2 F/W SINGLE ENDED ADAPTER
 #6209 93H8407 PCI SCSI-2 F/W DIFFERENTIAL ADAPTER
 #6210 67G3284 Serial-Link Hi-Perf Disk Drive Subsystem Adapter (40mb/s)
 #6211 00G3357 Serial-Link Hi-Perf Disk Drive Subsystem Adapter (80mb/s)
 #6212 67G3284 HI-PERF. DISK DRIVE SUBSYSTEM ADAPTER 40/80MB/SEC
 #6213 67G3284 HI-PERF. DISK DRIVE SUBSYSTEM ADAPTER 40/80MB/SEC
 #6214 11H3614 HI-PERF ADPT.CARD (MAYFLOWER)
 #6215 09L2061 PCI SSA, 4-PORT, MULTI- INITIATOR ADAPTER / 16MB DRAMM=89H5651
 #6216 40H5707 ENHANCED SSA 4-PORT ADAPTER (MAYFLOWER)
 #6217 89H5617 IBM SSA 4-PORT RAID ADAPTER (SARATOGA) / 4MB 70NSMM=73G3233
 #6218 96H9875 PCI Adapter SSA 4-Port RAID 4-J
 #6218 73G3233 4MB DRAM for PCI adapter 4-J
 #6218 96H9875 IBM PCI SSA 4-PORT RAID ADAPTER / 4MB 70NSMM=73G3233
 #6219 84H9706 MICRO CHANNEL SSA MULTI INIT./RAID EL ADAP./16MB DRAM 89H5651
 #6220 -----> SCSI I/O DRAWER, 7EIA / NO SINGLE P/N
 #6221 93H9005 BASE 4.5GB F/W DASD
 #6222 89H5650 SSA FAST-WRITE CACHE
 #6223 -----> SCSI I/O DRAWER, -48VDC, 7EIA / NO SINGLE P/N
 #6224 -----> DASD DRAWER (HARRIER I) / NO SINGLE P/N

#6225 1 of 2 SSA(40MBS)2W/RAID / 09L2104 65MB DIMM / 09L2105 CACHE
#6225 2 of 2 34L5388 40MB RAID5 / 44L0305 BATTERY PK / 75H8319 BRKT BLANK
#6226 -----> SCSI-2 DRAWER / NO SINGLE P/N
#6227 24L0023 GIGABIT FIBRE CHANNEL ADAPTER FOR PCI BUS
#6227 09P1173 FCAL(100MBS) PCI EXT
#6228 09P5080 Gigabit Fibre Channel 32/64 PCI Adapter 4-W
#6229 88G0053 DC INPUT CPU ENCLOSURE SELECT
#6230 34L5388 40MBS 2WAY RAID5
#6231 09L5585 128MB DIMM
#6235 09L2105 32MB Fast-Write option cache
#6280 00P2342 REDUNDANT AC POW SUP
#6281 00P2344 REDUNDANT DC POW SUP
#6282 1 of 2 REDUN AC PWR 645 CEC / 00P2401 PWR CORD / 03N2829 PS FILLER
#6282 2 of 2 11K0802 CEC AC PWR / 11K0868 CLIP LINCD
#6283 1 of 2 REDUN AC PWR 595 I/O / 00P2401 PWR CORD / 03N2829 PS FILLER
#6283 2 of 2 11K0812 I/OPWR SUP / 11K0868 CLIP LINCD
#6284 1 of 2 REDUNDANT AC P/S CEC / 24L0728 1100W PWR / 24L0768 PS FILLER
#6284 2 of 2 42F6841 CABLE ACDC
#6285 09P0942 DC POW CBL 3PIN/3PIN
#6286 09P1280 DC POW CBL 3PIN/5PIN
#6290 09P1794 MODULAR AC POWER SUPPLY
#6291 11H8278 MINUS 48 VOLT DC
#6292 93H6189 AC POWER SUPPLY
#6293 11H8278 MINUS 48 VOLT DC
#6294 40H4838 REDUNDANT POWER SUPPLY FOR 7027
#6295 89X2629 EXTRA BIFURCATED POWER CORD FOR 7027
#6296 08L1336 REDUNDANT AC POWER SUPPLY / PS BLANK=93H8954
#6297 97H9464 MODULAR DC POWER SUPPLY / PS BLANK=93H8954
#6298 97H9464 MODULAR DC POWER SUPPLY / PS BLANK=93H8954
#6299 41L4881 MODULAR DC POWER SUPPLY
#6300 54F0738 Digital Trunk Adapter
#6301 51G8018 M-Audio Capture Playback Adapter
#6302 39H8179 Ultimedia Audio Adapter
#6303 1 of 2 7010: BUS AUDIO ADPTR CARD=65G4488 / AUDIO RISER=65G4536
#6303 2 of 2 BEZEL BLAN=65G4522
#6305 80G0417 Digital Trunk Dual Adapter
#6306 40G6290 SPEECH ACCELERATOR I / DIAG=40G6292 / PUBS=40G6294
#6307 40G6291 SPEECH ACCELERATOR II / DIAG=40G6292 / PUBS=40G6294
#6308 12H1504 PERSONAL MICROPHONE
#6309 1 of 2 DIGITAL TRUNK QUAD ADPTR / SBUS CABLE=10J2253 QAUD AIB=10J2272
#6309 2 of 2 CABLE KIT=51H4325 / SDPOP=39H8084 / 4MB DRAM=70F9973
#6310 -----> TELEX MICROPHONE HC SPEAKER=8185213 H/C MICROP=8185290
#6310 1 of 2 ARTIC960RXD QUAD DIGITAL TRUNK PCI ADAPTER
#6310 2 of 2 DTXA EIB=09J8829 DTXA BASE=87H3734
#6311 47L8851 RTIC960RTE, DTRA ADP
#6320 -----> 10EIA AC I/O DRAWER / NO SINGLE P/N
#6321 1 of 4 PRIM I/O DRAWER GROUP / 06H2792 PLATE ASM / 07L7814 3.5 DISK
#6321 2 of 4 75H8319 BRKT BLANK /92F1294 M3.5 SCREW / 93H2452 CABLE
#6321 3 of 4 93H2453 M/K CBL / 93H2454 DISKT CABLE / 93H8043 PARAL CABLE

#6321 4 of 4 93H8046 SER CABLE
#6322 08L1189 SUPPORT PROCESSOR GROUP
#6323 1 of 3 SEC I/O DRAWER GROUP / 0438548 SCREW 4-40 / 06H2792 PLATE ASM
#6323 2 of 3 07L9875 FOAMFILLER / 75H8319 BRKT BLANK / 92F1294 M3.5 SCREW
#6323 3 of 3 93H2449 PLATE / 94H0136 BLANK BEZL / 97H9480 BLANKBEZEL
#6324 -----> PRIMARY 5EIA I/O DRW / NO SINGLE P/N
#6325 -----> SECONDRY 5EIA AC I/O / NO SINGLE P/N
#6326 09P1767 SERVICE PROCESSOR
#6327 -----> SECONDRY 5EIA DC I/O / NO SINGLE P/N
#6400 32G1412 64 PORT ASYNC CONTROLLER / WRAP PLUG = P/N 53F3663
#6401 00G1109 25M CABLE M/T 7013
#6401 43G0893 16-Port Async Concentrator
#6401 43G0893 64 PORT ASYNC CONTROLLER
#6401 00G1109 25M CABLE M/T 7013
#6401 43G0893 64 PORT ASYNC CONTROLLER
#6402 59F3432 RJ45-to-DB-25 Converter Cable 1ft Cable-P (Qty 4) (64-Port)
#6403 32G1412 64 PORT ASYNC CONTROLLER / WRAP PLUG = P/N 53F3663
#6405 73G4627 AMPLIFIED SPEAKERS (US POWER SUPPLY) SPEAKER PWRSUPPLY 04H5588
#6406 73G4527 AMPLIFIED SPEAKERS (UK POWER SUPPLY) SPEAKER PWRSUPPLY 10H2838
#6407 73G4527 AMPLIFIED SPEAKERS (EUROPE POW SUP) SPEAKER PWRSUPPLY 10H2840
#6422 1 of 2 11H8085 SCSI 6-PK(#3), BK PLN/PWR CBL/ SCSI ADAPTER
#6422 2 of 2 CBL 16 BIT 06H6660 / POWER CABLE 39H9994
#6422 1 of 2 93H8406 SCSI 6-PK(#3), BK PLN/PWR CBL/ SCSI ADPTR+CBL
#6422 2 of 2 CBL 16 BIT=06H6660 / POWCBL=39H9994
#6423 1 of 3 6-PACK BACKPLANE JUMPER CAB / DASD CARD=40H0114
#6423 2 of 3 STRAP CBL=40H0423 / DASD PWRSP=40H4840 / PS BLANK=40H4913
#6423 3 of 3 SCREW M3.5=8185165 / JUMPER=93H2485
#6424 1 of 3 6-PACK BACKPLANE ADAPT CAB / DASD CARD=40H0114
#6424 2 of 3 STRAP CBL=40H0423 / CABLE 1DRP=40H3128 / DASD PWRSP=40H4840
#6424 3 of 3 PCI SCSI2=93H8406 / SCREW M3.5=8185165
#6425 1 of 3 SCSI 6-PK SELECT PCI / 06H6876 SCSI CBL / 07N3675 9.1G DRIVE
#6425 2 of 3 1147429 SCREW / 21H0793 SHUNT / 45G9800 ADDR JUMP
#6425 3 of 3 88G3977 16BITTERM
#6427 -----> SSA 2X6-PACK WITH 4.5GB SCSI I PL DISK, SELECT / NO SINGLE P/N
#6500 1 of 3 UPGRADE DASD CARRIER / 05J7982 SPRNG FRNT / 05J7983 SPRNG REAR
#6500 2 of 3 05J7985 6-32X187 / 21F9599 SCREW / 24L0901 SHIELD
#6500 3 of 3 24L0924 DASD TRAY / 24L1082 INTERPOSER
#6501 1 of 11 3.5" Disk Drive mounting hardware - See multiple below
#6501 2 of 11 Cage half heigh for 3.5" disk drive=00G3254 / Fan 90MM=00G3277
#6501 3 of 11 Isolator,fan=81F7977(4x) / Guard,fan=32G0219
#6501 4 of 11 Screw,fan guard (2x)=1621192 / NUT,FAN GUARD (2x)=1622403
#6501 5 of 11 Isolator, file(8-bit except 540MB) (4x)=00G3272
#6501 6 of 11 Screw, file(8-bit except 540MB) (4x)=1621309
#6501 7 of 11 Isolator, file(16bit) (4x)=11H2496
#6501 8 of 11 Screw,file(16bit)(4x)=0038443
#6501 9 of 11 Plate, half height drive (8-bit except 540MB)=00G3273
#6501 10of 11 Plate, half height drive (16-bit)=11H2495
#6501 11of 11 Screw, plate=1673983 / Fan cable=32G0218
#6503 04N5867 I/O HUB DUAL RIO LPS

#6505 97H9336 3.5" SCSI DASD CARRIER, ENHANCED MES ONLY (TRAY)
 #6506 65G1877 INCREMENTAL COOLING FAN
 #6507 1 of 3 RACK-MOUNTING KIT FOR MACHINE 7319
 #6507 2 of 3 SCREW=1624779 / ACDC CABLE=42F6841 / SLIDE LEF=65G5090
 #6507 3 of 3 SLIDE=65G5091 / NUT CLIP=74F1823
 #6508 24L1940 KIT DSK IN MEDIA BAY / 33G3907 SCREW
 #6509 1 of 2 MEDIA BAY DISK DR MOUNTING KIT
 #6509 2 of 2 SCREW=33G3907 / BRACKET=65G8295
 #6510 1 of 3 DISK TRAY/HDW 6 DROP CABLE /
 #6510 2 of 3 BRACKET=11H3765 / CABLE 6DROP=11H3929 / FAN CABLE=32G0218
 #6510 3 of 3 BRCKT DASD=52G0229 / RETAINER=52G0268 / SCREW=78X8993
 #6511 1 of 2 MEDIA TO DISK BAY CONVERSION HARDWARE /
 #6511 2 of 2 RAIL=00G3296 / BRACKET=11H7598 / SCREW=1621187
 #6512 1 of 3 DISK TRAY/HDW 6 DROP CABLE /
 #6512 2 of 3 BRACKET=11H3765 / CABLE 6DROP=11H3929 / FAN CABLE=32G0218
 #6512 3 of 3 BRCKT DASD=52G0229 / RETAINER=52G0268 / SCREW=78X8993
 #6513 92F0324 INTERPOSER, 16 TO 8-BIT SCSI CABLE CONVERTER
 #6516 96G4406 HOT PLUGGABLE 16-BIT DISK ENCLOSURE
 #6517 1 of 2 MEDIA DEVICE MOUNTING KIT /
 #6517 2 of 2 RAIL=00G3296 / SCREW (4x)=1621187 / CONVERTER=92F0324
 #6518 -----> DISK MOUNTING KIT / ISOLATOR=00G3272 (4x) SCREW 0316807 (4x)
 #6519 1 of 2 SCSI 6-PACK HOT SWAP BACK PLANE=93H2166
 #6519 2 of 2 STRAP CBL=40H0423 SCREW M3.5=8185165
 #6521 1 of 2 2ND SIX SCSI HOT SWAP BAYS KIT / 12J5701 220W P/S /
 #6521 2 of 2 POW CABLE 2DP=39H9994 / DASD CARD=40H0114 / CABLE DRP=40H3128
 #6522 1 of 2 3RD SIX SCSI HOT SWAP BAYS KIT / CBL 16 BIT=06H6876
 #6522 2 of 2 DASD CARD=40H0114 / PCI SCSI2=93H8406
 #6523 1 of 2 SIX SCSI BAYS KIT - NON HOT SWAP / POWCBL 2DP=39H9994
 #6523 2 of 2 SCSI BUSCD=40H1432 LOCK BAR=40H4939 SCREW M3.5=8185165
 #6524 1 of 2 MEDIA MOUNTING HARDWARE FOR SCSI DRAWER / SCREW=1621170
 #6524 2 of 2 INSERT=44F5266/44F5267 RFI SHIELD=70F9198
 #6525 -----> 5.25 DISK MOUNT HDW SCSI DRAWER / SCREW=44F5268 PLATE=70F9052
 #6526 1 of 3 3.5" DISK MOUNT HDW SCSI DRAWER WASHER = 1622316 NUT = 1622401
 #6526 2 of 3 AIRDUCT = 62G4993 MOUNTING = 67G0564 PLA INSERT = 67G0644
 #6526 3 of 3 GROMMET = 67G0645 SCREW M4 = 67G0646
 #6528 1 of 2 HOT SWAP CARRIER FOR F/W SCSI DISK DRIVE
 #6528 2 of 2 CARRIER=06H9389 / ADDR CABLE=06H7691 / SCREW=1147429
 #6529 -----> CENTRAL OFFICE FEATURE / NO SINGLE P/N
 #6530 1 of 2 RACK MOUNT HARDW SCREW=1624779/SCREW=32G1536 NUT CLIP=74F1823
 #6530 2 of 2 RAIL CLIP=32G1541/RAIL RIGHT=32G1570 RAIL LEFT=32G1591
 #6531 1 of 3 19 INCH EQUIP. RACK MTG. HDW. / SCREW=32G1536
 #6531 2 of 3 RAIL CLIP=32G1541 RAIL SET=32G1542
 #6531 3 of 3 RAIL RIGHT=32G1570 RAIL LEFT=32G1591 BUSHING=53F3496
 #6532 1 of 4 RACK MOUNT ENVIRONMENTALLY HARDENED OPTION /
 #6532 2 of 4 CABLE LED=00G2230 / BATTERY=23F0168 / FRONT FAN=32G1528
 #6532 3 of 4 CBL DSKET=40F9925 / SPACER=40F9969 / FAN ASM=40F9979
 #6532 4 of 4 I/O GROUND=81F9030.
 #6533 1 of 3 RACK MOUNTING KIT FOR FACTORY INSTALLATION SCREW=1621844
 #6533 2 of 3 WASHER=1622320 SCREW=1624779 BLANK BEZEL=41F0636

#6533 3 of 3 ACDC CABL=42F6841 16BFW CBL=52G9501 RS485 SIF=96G4259
 #6535 1 of 2 2ND SIX SCSI BAYS KIT 220W P/S=12J5701 / POWCBL 2DP=39H9994
 #6535 2 of 2 SCSI BUSCD=40H1432 / CABLE 1DRP=40H3128 / LOCK BAR=40H4939
 #6536 1 of 2 3RD SIX SCSI BAYS KIT 06H6876 CBL 16 BIT / POWCBL 2DP=39H9994
 #6536 2 of 2 SCSI BUSCD=40H1432 / LOCK BAR=40H4939 / PCI SCSI2=93H8406
 #6537 1 of 2 SIX SCSI BAYS KIT - NON SWAP
 #6537 2 of 2 DASD CARD=40H0114 POWERCABLE=39H9994 SCREW M3.5=8185165
 #6538 93H4341 SSA 6-PACK BACK PLANE CHAIN CABLE
 #6539 1 of 2 SSA 6-PACK BACK PLANE W/I / 09L2105 CACHE / 92F1294 M3.5 SCREW
 #6539 2 of 2 93H4341 BKPLNE CBL / 93H6321 CDPOP FRU
 #6540 1 of 3 IPL DSK MNT HDW/CBLS / 00G1268 SCREW PLNR / 00P1676 CBL MEDIA
 #6540 2 of 3 03K8992 I/O BRACKT / 03N2897 DASD BRKT / 03N2899 BRKT BLNK
 #6540 3 of 3 09P1449 CBLDASDPWR
 #6543 -----> SSA ADDITIONAL 2-PACK CONFIGURATION / NO SINGLE P/N
 #6546 1 of 2 WHITE RACK OPTION / 05N4867 WHITE RK / 21L4290 ACCS PLATE
 #6546 2 of 2 31L7540 SCRWM5X8 / 51H9502 VELCRO TIE
 #6547 1 of 2 ULTRA SCSI 6-PK BKPL / 08L1468 BPK BKPLNE / 39H9994 POWCBL 2DP
 #6547 2 of 2 92F1294 M3.5 SCREW
 #6547 87G1632 5.0gb 8mm differential tape drive (9334-501)
 #6548 1 of 2 REDUNDANT 200V POWER / 24L1400 PWR SUPPLY / 24L1723 PWR FILLER
 #6548 2 of 2 24L1730 FAN ASMBLY / 24L1738 FAN FILLER
 #6549 12J5701 220W POW SUP FOR 2ND & 3RD SSA OR SCSI BACKPLANE SCREW=8185165
 #6550 1 of 3 MEDIA/DISK DRIVE OPTION SCREW=1621182/STANDOFF=27H0863
 #6550 2 of 3 CBL INTERN=40H4893/CBL POWER=40H4894/BACKPLANE=40H7259
 #6550 3 of 3 DIF REPEAT=40H7398/CBL SIGNAL=40H7403
 #6551 1 of 3 MEDIA/DISK DRIVE OPTION SCREW=1621182/STANDOFF=27H0863/
 #6551 2 of 3 245W PS=40H4838/LOGIC=40H4847/CBL INTERN=40H4893/
 #6551 3 of 3 CBL POWER=40H4894/BACKPLANE=93H2166/CBL
 #6552 1 of 2 OPT. TWIN INITIATOR FEATURE (MOD HSC ONLY) STANDOFF=27H0863
 #6552 2 of 2 245W PS=40H4838/SCSIREPCRD=40H4869
 #6553 1 of 3 SCSI 6-PACK HARDWARE / 04N2920 CABLE,SIG / 04N3392 SCREW
 #6553 2 of 3 04N4308 DRIVER / 04N6795 CAGE/ELECT / 24L1729 DASD FILER
 #6553 3 of 3 24L1761 CABLE PWR /24L1827 SHIELD /75G2878 SCREW M3.5
 #6554 1 of 4 SSA(40) 6-PK HARDWRE / 04N2920 CABLE, SIG / 04N3392 SCREW
 #6554 2 of 4 04N4270 SSA BKPLN / 23L8107 SSA FILLER / 24L1729 DASD FILER
 #6554 3 of 4 24L1761 CABLE PWR / 24L1827 SHIELD / 75G2878 SCREW M3.5
 #6554 4 of 4 86G7648 PW CORD US / 93H4341 BKPLNE CBL
 #6555 1 of 2 DUAL SCSI IPL BAY OP / 04N2920 CABLE, SIG / 04N3392 SCREW
 #6555 2 of 2 04N4555 DASD BKPLN / 75G2878 SCREW M3.5
 #6560 11K0034 TRAY, DISK IN MEDBAY / 33G3907 SCREW
 #6561 09P1689 TRAY, DISK MDBAY / 09P1651 FAN ASMBLY / 33G3907 SCREW
 #6562 1 of 3 RUGGED CEC CVR/BRACE / 04N6185 BRACKET /04N6485 SCREW
 #6562 2 of 3 21P4498 SHEAR WEB / 21P4500 CRD BRAKET / 21P4501 BRACKET
 #6562 3 of 3 26H7213 RAIL SCREW / 44H8203 SCREW / 75G2878 SCREW M3.5
 #6599 93H8878 OPTIONAL KEYBOARD SPEAKER CBL
 #6600 93H8120 QUIET TOUCH KEYBOARD, U.S. ENGLISH
 #6601 93H8132 QUIET TOUCH KEYBOARD, FRENCH
 #6602 93H8138 QUIET TOUCH KEYBOARD, ITALIAN
 #6603 93H8133 QUIET TOUCH KEYBOARD, AUSTRIAN GERMAN

#6604 93H8151 QUIET TOUCH KEYBOARD, UK ENGLISH
#6605 93H8146 QUIET TOUCH KEYBOARD, SPANISH
#6606 93H8154 QUIET TOUCH KEYBOARD, JAPANESE
#6607 93H8124 QUIET TOUCH KEYBOARD, BRAZILIAN PORTUGUESE
#6608 93H8121 QUIET TOUCH KEYBOARD, CANADIAN FRENCH
#6609 93H8126 QUIET TOUCH KEYBOARD, BELGIAN FRENCH
#6610 44H3973 BATTERY PACK (MODELS B63,B64, B67,B68)
#6610 93H8127 QUIET TOUCH KEYBOARD, BELGIAN DUTCH
#6611 44H3974 BATTERY PACK (MODELS B69,B70)
#6611 93H8147 QUIET TOUCH KEYBOARD, SWEDISH/FINNISH
#6612 93H8130 QUIET TOUCH KEYBOARD, DANISH
#6612 44H3975 BATTERY PACK (MODELS B30,B50)
#6613 93H8128 QUIET TOUCH KEYBOARD, BULGARIAN
#6613 1 of 2 BATTERY PACK - BATTERY+CHARGER / F/C 6613=44H6610
#6613 2 of 2 CABLE=44H6612 / BATTERY=44H6613 / CHARGER=44H6614
#6614 93H8148 QUIET TOUCH KEYBOARD, SWISS, FRENCH/GERMAN
#6614 44H6611 BATTERY PACK - 2 BATTERIES (NO CHARGER)
#6616 93H8139 QUIET TOUCH KEYBOARD, NORWEGIAN
#6617 93H8131 QUIET TOUCH KEYBOARD, DUTCH
#6618 93H8141 QUIET TOUCH KEYBOARD, PORTUGUESE
#6619 93H8134 QUIET TOUCH KEYBOARD, GREEK
#6620 93H8135 QUIET TOUCH KEYBOARD, HEBREW
#6621 93H8136 QUIET TOUCH KEYBOARD, HUNGARIAN
#6622 93H8137 QUIET TOUCH KEYBOARD, ICELANDIC
#6623 93H8140 QUIET TOUCH KEYBOARD, POLISH
#6624 93H8142 QUIET TOUCH KEYBOARD, ROMANIAN
#6625 93H8145 QUIET TOUCH KEYBOARD, SLOVAKIAN
#6626 93H8129 QUIET TOUCH KEYBOARD, CZECH
#6627 93H8149 QUIET TOUCH KEYBOARD, TURKISH
#6628 93H8150 QUIET TOUCH KEYBOARD, TURKISH
#6629 93H8123 QUIET TOUCH KEYBOARD, LA SPANISH
#6630 93H8125 QUIET TOUCH KEYBOARD, ARABIC
#6632 93H8144 QUIET TOUCH KEYBOARD, YUGOSLAVIAN/CYRILLIC
#6633 93H8156 QUIET TOUCH KEYBOARD, KOREAN
#6634 93H8155 QUIET TOUCH KEYBOARD, CHINESE/US
#6635 93H8122 QUIET TOUCH KEYBOARD, CANDIAN FRENCH
#6636 93H8157 QUIET TOUCH KEYBOARD, THAILAND
#6638 93H8143 QUIET TOUCH KEYBOARD, RUSSIAN
#6639 93H8152 QUIET TOUCH KEYBOARD, YUGOSLAVIAN/LATIN
#6640 93H8153 QUIET TOUCH KEYBOARD, U.S. ENGLISH ISO9995 (EMEA)
#6894 65G6874 REMOTE RE-IPL PORT /INTERFACE / CABLE RES=65G6880
#6900 82G3278 ENHANCED KEYBOARD - U.S. ENGLISH
#6901 1391402 ENH KEYB - FRENCH
#6902 1393395 ENH KEYB - ITALIAN
#6903 1391403 ENH KEYB - GERMAN/AUSTRIAN
#6904 1391406 ENH KEYB - UK ENGLISH
#6905 1391405 ENH KEYB - SPANISH
#6906 79F0167 ENH KEYB - JAPANESE PS/2
#6907 64F7707 ENH KEYB - BRAZILIAN/PORTUGUESE

#6908 82G3279 ENH KEYB - CANADIAN FRENCH
#6909 1391526 ENH KEYB - BELGIAN DUTCH
#6910 1391526 ENH KEYB - BELGIAN FRENCH
#6911 1391411 ENH KEYB - SWEDISH/FINNISH
#6912 1391407 ENH KEYB - DANISH
#6913 1399583 ENH KEYB - BULGARIAN
#6914 1395881 ENH KEYB - SWISS FRENCH
#6915 1395882 ENH KEYB - SWISS GERMAN
#6916 1391409 ENH KEYB - NORWEGIAN
#6917 1391511 ENH KEYB - DUTCH
#6918 1391410 ENH KEYB - PORTUGUESE
#6919 1399046 ENH KEYB - GREEK
#6920 1391408 ENH KEYB - HEBREW
#6921 1399581 ENH KEYB - HUNGARIAN
#6922 1391407 ENH KEYB - ICELANDIC
#6923 1399580 ENH KEYB - POLISH
#6924 1399582 ENH KEYB - ROMANIAN
#6925 1399571 ENH KEYB - SLOVAK
#6926 1399570 ENH KEYB - CZECHOSLOVAKIAN
#6927 1393286 ENH KEYB - TURKISH
#6928 8125409 ENH KEYB - TURKISH
#6930 8131596 ENHANCED KEYBOARD - ARABIC
#6933 06H5286 ENH KEYB - KOREAN
#6935 1393990 ENH KEYB - TRADITIONAL CHINESE
#7000 -----> I/O RACK / NO SINGLE P/N
#7001 -----> I/O RACK CENTRAL OFFICE FEATURE / NO SINGLE P/N
#7001 05H6926 SUN DEVICE DRIVER
#7002 1 of 2 Realtime Interface Co-Processor Multiport/2 Adapter 0,5mb
#7002 2 of 2 CD W/O MEM=09F1888/256K SIP=16F2267/DIAG=43G2259/MCODE=51G9532
#7003 -----> I/O RACK, CENTRAL OFFICE FEATURE WITH DC(-48V) / NO SINGLE P/N
#7004 09F1962 Realtime Interface Co-Processor Multiport/2 Adapter 1,0mb
#7006 53F2603 Portmaster Adapter/A / 1MB=53F2662 & #7042, #7044 or #7046
#7008 53F2603 Portmaster Adapter/A / 2MB=53F2666 & #7042, #7044 or #7046
#7017 1 of 2 ARTIC960HX 4-PORT SELECTABLE PCI ADAPTER=87H3427
#7017 2 of 2 WRAP PLUG=87H3311 / CARD POP=87H3413 / 8MB DIMM=87H3621
#7022 09F1958 Multiport/2 4-Port RS-232 Interface Board
#7022 09F1955 ARTIC MULTIPORT/2 EIB 4 PORT 232
#7022 85G0156 THINKPAD NI-MH BATTERY PACK
#7024 09F1888 Multiport/2 6-Port RS-232C Synchronous Interface Board
#7024 91F7963 ARTIC MULTIPORT / 2 EIB 6 PORT SYNC / CABLE=15F8866
#7026 09F1952 Multiport/2 8-Port RS-232C Interface Board / WRAP=16F2476
#7028 09F1952 Multiport/2 8-Port RS-422A Interface Board
#7028 59F2977 ARTIC MULTIPORT/2 EIB 8 PORT 422 / WRAP=16F2478
#7030 09F1952 Multiport/2 RS-232/RS-422 Interface Board
#7030 09F1958 ARTIC MULTIPORT/2 EIB 4-232 / 4-422 / WRAP=16F2478
#7032 39H1266 THINKPAD 850 LSUB BATT + 85G2677 BATT WT = NIMH BATTERY PACK
#7036 1 of 3 1.8M/I/O RACK AC OPT / 05N4868 BLACK RK / 11P0724 BLK DOOR
#7036 2 of 3 31L7533 HINGE ASM / 31L8313 LEVL WRNCH / 31L8594 SCRW M5X12
#7036 3 of 3 51H9502 VELCRO TIE

#7037 1 of 7 2M I/O RACK(42U)AC / 00P2200 PDB 1PH US / 00P2201 PDB 2PHASE
#7037 2 of 7 00P2202 PDU SWISS / 05N4661 SHIP BRACE / 09P1418 MNTG HDWRE
#7037 3 of 7 11P0313 2M RK FRAM / 11P0722 R DOOR BLK / 1624779 SCREW
#7037 4 of 7 31L7533 HINGE ASM / 31L8305 TIP PLATE / 31L8313 LEVL WRNCH
#7037 5 of 7 31L8594 SCRW M5X12 / 51H9502 VELCRO TIE / 74F1823 NUT M5
#7037 6 of 7 88G4763 LNCORD 32A / 88G4764 LNCORD 16A / 93H9151 TIP FOOT R
#7037 7 of 7 97H9754 IAEI BLACK / 97H9755 3UNIT BLK
#7042 53F2612 8-port RS-232 Interface Board/A (req #7108/100PIN CONN=15F8848
#7044 53F2615 8-port RS-422 Interface Board/A (req #7108/100PIN CONN=57F0678
#7046 72F0164 6-port V.35 Interface Board/A (req #7106 / WRAP=72F0168
#7048 04G5500 6-port X.21 Interface Board/A / X.21 78PIN=85F0205
#7063 84G9870 TRAVEL QUICK CHARGER IBM THINKPAD POWER SERIES 850
#7070 13H5302 HIGH SPEED PCMCIA DATA/FAX MODEM
#7079 52G6275 EXTERNAL SCSI FLOPPY DISK DRIVE
#7080 88G3016 AC ADAPTER
#7081 43G3367 DAA WITH PSTN CABLE FOR MODEM UK
#7082 43G3351 DAA WITH PSTN CABLE FOR MODEM FRANCE
#7083 85G0167 AC ADAPTER (50W) IBM THINKPAD POWER SERIES 850
#7084 43G3338 DAA WITH PSTN CABLE FOR MODEM GERMANY
#7085 43G3336 DAA WITH PSTN CABLE FOR MODEM ITALY
#7086 88G3018 EXTERNAL SCSI-2 DISKETTE DRIVE
#7087 88G3020 10BASE2 MICRO-TRANSCEIVER
#7088 88G3022 10BASE2 MICRO-TRANSCEIVER
#7089 88G3024 SOFT CARRY CASE
#7090 88G3026 INTERNAL BATTERY PACK
#7091 88G3028 EXTERNAL BATTERY PACK
#7092 04H6922 IBM TOKENRING 16/4 CREDIT CARD ADAPTER + 92G9373 Cable
#7093 0932860 PCMCIA MEMORY CARD - 4MB FLASH
#7094 0933155 IBM PCMCIA MEMORY CARD 2MB SRAM
#7096 88G3030 12V CAR CIGAR-LIGHTER ADAPTER
#7097 88G3014 INT. BATTERY PACK CHARGER AND STORAGE
#7100 62G3068 CABLEE 8 METER DIFF SCSI=95X2494 / TERMINATOR=79X3795
#7101 95X2492 DIFFERENTIAL SCSI INTERFACE (DAISY-CHAIN)
#7102 1 of 2 4/8-Port 232/422 Multiport/2 Cable 10ft Cable-T1 /
#7102 2 of 2 CABLE= 09F1801 / WRAP 1=6425494 / WRAP 2=09F1799
#7102 31F4223 CABLE FOR ATT RS/6000 (SINGLE ENDED INTERFACE)
#7103 62G3061 CABLE FOR ATT TO THE R6000 SCSI-2 (SINGLE ENDED INTERF)
#7104 15F8867 6-Port Synchronous Multiport/2 Cable 10ft Cable-T2
#7104 15F8868 ARTIC CABLE MULTIPOINT/2 6 PORT SYNC
#7106 72F0162 6-port V.35 Portmaster Cable 4ft Cable-T3
#7106 72F1966 ARTIC CABLE PORTMASTER 6 PORT V.35 / WRAP=72F0167
#7107 11H4958 V.35 NETWORK CABLE / V.35 WRAP=52G3379
#7108 33F8962 8-port Cable 232/422 Portmaster Cable 4ft Cable-T4
#7108 33F8964 ARTIC CABLE PORTMASTER 8 PORT 232 / 422 / 25PIN CONN=33F8985
#7110 04G5501 ARTIC CABLE 6-PORT X.21 / X.21 25PIN=85F0206
#7111 11H4957 X.21 NETWORK CABLE / X.21 WRAP=52G3378
#7176 97P3573 7028/7014: PDU for 7028-6M2
#7210 62G3061 3995:2.38m 50pin Single-Ended cable for cards #2410 & #2831
#7211 34H5889 3995: 3m 68pin Single-Ended SCSI Cable for cards #2415

#7212 34H9120 3995: 3m 68pin Singled-Ended SCSI Cable 68to50pin for #2414
#7215 34H9120 3995: 8m 50pin Differential SCSI Cable for card #2420.
#7216 95X2492 3995: 2m 68pin Differential SCSI daisy chain cable
#7217 88G5757 3995: Cable 12m 68/50pin Diff SCSI for #2412 #2413 #2416
#7218 34H9126 3995: Cable 12m 68/50pin Diff SCSI for card #2409 #6207 #6209
#7219 34H9240 3995: 3m 50to50pin Single-Ended SCSI cable for Adaptec card
#7220 59H4768 3995: 8m 50to50pin Differential SCSI cable for Adaptec card
#7252 1 of 3 POWER GXT1000 INT GRAPHIC ACC/ADV GRAPHICS OPTION=11H8490
#7252 2 of 3 RSS CD CR=11H8490 / 226WATT PS=40H3137 / SPAN CABLE=73H1887
#7252 3 of 3 GPSS CRD=73H4034 / PCI SPAN=93H2399
#7253 1 of 3 POWER GXT1000 INT GRAPHIC ACC/ADV GRAPHICS OPTION=11H8490
#7253 2 of 3 RSS CD CR=11H8490 / 226WATT PS=40H3137 / SPAN CABLE=73H1887
#7253 3 of 3 GPSS CRD=73H4034 / PCI SPAN=93H2399
#7254 65G4887 POWER GXT1000 VIDEO OUTPUT OPTION
#7317 1 of 3 DIGITAL TRUNK QUAD-PCI ADOPTER
#7317 2 of 3 QUAD AIB=10J2272 / SBUS CABLE=10J2253
#7317 3 of 3 SDPOP=39H8084 / CABLE KIT=51H4325 / 4 MB DRAMM=70F9973
#7723 16G7002 398MB DASD CAPACITY UPGRADE
#7770 06H3048 US OEM KEYBOARD
#7770 1 of 3 OEM (GENERIC) INDICATOR for M/T 7017
#7770 2 of 3 COVER FRNT=93H9780 COVER REAR=93H9781 DORSALOEM=93H9785E
#7770 3 of 3 COVER LOWER=93H9782 COVER LEFT=93H9783 COVER RIGHT=93H9784
#7773 06H3048 USOEM KYBD BULL
#7785 16G7003 986MB DASD CAPACITY UPGRADE
#7786 43G3416 DAA WITH PSTN CABLE FOR MODEM SWITZERLAND
#7787 54F0717 DAA WITH PSTN CABLE FOR MODEM SWEDEN
#7788 54F0715 DAA WITH PSTN CABLE FOR MODEM FINLAND
#7789 43G3410 DAA WITH PSTN CABLE FOR MODEM NORWAY
#7790 54F0999 DAA WITH PSTN CABLE FOR MODEM SPAIN
#7791 43G3402 DAA WITH PSTN CABLE FOR MODEM DENMARK
#7792 54F0780 DAA WITH PSTN CABLE FOR MODEM ISRAEL
#7793 43G3392 DAA WITH PSTN CABLE FOR MODEM TURKEY
#7794 43G3409 DAA WITH PSTN CABLE FOR MODEM NETHERLANDS
#7795 43G3414 DAA WITH PSTN CABLE FOR MODEM BELGIUM
#7901 65G2373 Cable RJ45-to-RJ45 - 10 feet
#7902 65G2373 Y-Cable Extended RS-232D Modem for 7318 - 10 feet
#7903 65G2375 Adapter Cable Modem 7318
#7904 65G2376 Adapter Terminal for 7318
#7905 65G2377 7318 Adapter RJ45-to-DB9 PC
#7906 65G2378 7318 Cable Macintosh DIN-8 - 10 feet
#7907 65G2379 7318 Cable RJ45-to-MMJ - 10 feet
#8000 8184306 OR (RPQ 8A0865) RAINBOW 3 TURBO
#8006 21H7375 JTAG CEC TO PRIM 3M
#8008 21F9469 PWR CONTROL CBL 6MTR
#8011 1 of 2 7133 MODX40: REMOTE POWER ON / RPWR CTRL=67G5181
#8011 2 of 2 RPO CABLE=05J7999 / RPO CABLE=08L7873 / POWER CAB=42F6839
#8012 09L7764 7133 MODX40: ONE DISK DRIVE MODULE LOCK / LOCK CARRIER=09L1682
#8021 05J8390 7133 MODX40: -48V DC POWER SUP
#8022 09L4299 7133 MODX40: 50/60HZ AC, 300VDC POWER SUPPLY

#8030 1 of 3 6-PACK BACKPLANE ADAPT CAB / DASD CARD=40H0114
#8030 2 of 3 STRAP CBL=40H0423 / CABLE 1DRP=40H3128 / DASD PWRSP=40H4840
#8030 3 of 3 PCI SCSI2=93H8406 / SCREW M3.5=8185165
#8031 1 of 2 7133 MODX40: RAVEN BLACK DRAWER COVER / COVER ASM=09L1687
#8031 2 of 2 OP PANEL=08L7924 / LED CABLE=09L1676 / FLEX CABLE=09L1677
#8031 1 of 3 6-PACK BACKPLANE ADAPT CAB / DASD CARD=40H0114
#8031 2 of 3 STRAP CBL=40H0423 / CABLE 1DRP=40H3128 / DASD PWRSP=40H4840
#8031 3 of 3 PCI SCSI2=93H8406 / SCREW M3.5=8185165
#8032 1 of 2 7133 MODX40: PEARL WHITE DRAWER COVER / COVER ASM=09L1686
#8032 2 of 2 OP PANEL=08L7924 / LED CABLE=09L1676 / FLEX CABLE=09L1677
#8051 1 of 2 NETFINITY R MOUNT KIT / 09L1821 RAIL KIT / 09L1822 RAIL RIGHT
#8051 2 of 2 09L1823 RAIL LEFT
#8060 93H7815 S70 UPGRADE I/O RACK
#8126 52G4894 8-port to 128-port Async Controller Select
#8127 1 of 2 128 PORT+RAN=88G3842 / CABLE=43G0937 / POWER SUP=93H7091
#8127 2 of 2 WRAP PLUG=43G928 / TERM PAIR=43G0938
#8128 1 of 2 128 PORT+RAN=88G3842 / CABLE=43G0937 / POWER SUP=93H7091
#8128 2 of 2 WRAP PLUG=43G928 / TERM PAIR=43G0938
#8130 88G3842 16-Port Remote Async Node - EIA-232D / POWER SUP=93H7091
#8131 43G0937 128-Port Async Controler Cable - 4,5 metre
#8132 43G0936 128-Port Async Controler Cable - 2,7 metre
#8133 43G0935 RJ-45 to DB-25 Converter Cable (kit of 4 cables) 128-Port
#8134 1 of 2 128 PORT+RAN 88G3842 / CABLE 43G0937 / POWER SUP 93H7091
#8134 2 of 2 WRAP PLUG 43G928 / TERM PAIR 43G0938
#8134 88G3842 REMOTE ASYNC NODE 16-PORT EIA-232 / 93H7091 POWER SUP
#8135 88G3650 64port to 128 port pinout converter kit
#8136 40H2589 RACK MOUNTABLE REMOTE ASYNC NODE 16-PORT EIA-232
#8137 1 of 2 Enhanced RAN 16-port EIA-232=93H6549
#8137 2 of 2 POWER SUPPLY=93H7091 WRAP PLUG=43G0928
#8138 1 of 2 ENHANCED ASYNCHRONOUS NODE 16-PORT EIA-422=93H6563
#8138 2 of 2 POWER SUPPLY=93H7091 WRAP PLUG=43G0928
#8168 90H9831 512MB R1 MEMORY UPGRADE ONLY (4x128MB)
#8174 90H9834 1024MB R1 MEMORY UPGRADE ONLY
#8176 90H9837 2048MB R1 MEMORY UPGRADE ONLY
#8178 90H9840 4096MB R1 MEMORY UPGRADE ONLY
#8180 97H6244 8192MB R1 MEMORY (4X2048MB CARDS)
#8204 09L4294 7133 MODX40: ONE 4.5GB ADVANCED DISK DRIVE MODULE
#8206 8184190 7248: GXT150P ADAPTER / VIDEOCABLE 96H2688 + 96G2689
#8209 09L4295 7133 MODX40: ONE 9.1GB ADVANCED DISK DRIVE MODULE
#8218 09L4296 7133 MODX40: ONE 18.2GB ADVANCED DISK DRIVE MODULE
#8227 93H9086 SECURITY TIE DOWN / 93H9016 BOLT / 93H9017 WASHER
#8228 07H0390 7248-100/120/132 1.2GB SCSI-2 5400 RPM HARD DISK DRIVE
#8240 11H1128 3COM ETHERNET ISA TP ONLY (3COMFEAT)
#8241 11H1141 3COM ETHERNET ISA BNC/AUI (3COMFEAT)
#8242 11H1151 3COM ETHERNET PCI 10/100 MB (3COMFEAT)
#8246 11H1179 OLICOM TOKEN RING PCI (3COMFEAT)
#8265 93H2399 IBM 7250 POWER GXT1000 PCI ATTACHMENT ADAPTER (GXT-PCI)
#8296 -----> UPGRADE SCSI I/O DRAWER 7EIA / NO SINGLE P/N
#8317 94H1013 RS64 II PROCESSOR CARD / 41L5604 FILLER CD

#8319 94H1008 RS64 II PROCESSOR CARD / 41L5604 FILLER CD
#8322 08L1189 SUPPORT PROCESSOR GROUP
#8326 09P1767 SERVICE PROCESSOR
#8394 1 of 2 UPGRADE 4.5GB ULTRA-SCSI 16BIT DISK=83H7105
#8394 2 of 2 Addr.Cable=06H7691 / Carrier=06H9389 / Screw=1147429
#8396 1 of 2 RS/6000 SP SYSTEM ATTACHMENT ADAPTER
#8396 2 of 2 TB3 SP ADP=08L0398 / TBS SP ADP=31L7741 / WRAP=77G0818
#8399 05J8006 7133 MODX40: ONE ADDITIONAL DUMMY DRIVE
#8404 90H9662 UPGRADE RS64 PROCESSOR 4W SMP 125MHZ / Filler=21H6806
#8422 33L3251 Spaceball for 9114-275
#8432 93H4341 SCSI-2 BACKPLANE TO BLACKPLANE
#8436 34L7771 36.4GB ADV DISK MODULE
#8447 06H6876 16-BIT PCI SCSI SE ADAPTER
#8509 34L6474 9.1GB ADV DISKMODULE
#8518 34L8486 7133-D40/T40 18.2GB SSA DISK MODULE 10K replace like
#8518 18P2198 7133-D40/T40 18.2GB SSA DISK MODULE 10K replace like
#8519 1 of 2 SCSI 6-PACK HOT SWAP BACK PLANE=93H2166
#8519 2 of 2 STRAP CBL=40H0423 SCREW M3.5=8185165
#8619 1 of 2 UPGRADE SCSI CD-ROM=93H8055
#8619 2 of 2 Clean Kit=31F4232 / Screw=33G3907 / Bezel=93H8048
#8624 97H7610 32X (MAX) SCSI-2 CD-ROM DRIVE,Black Bezl=97H7611
#8625 97H7796 32X CD ROM 16BIT CON / 97H7611 BLACK BEZL
#8700 07L9446 QUIET TOUCH KEYBOARD, STEALTH GRAY,US ENGLISH
#8701 07L9458 QUIET TOUCH KEYBOARD, STEALTH GRAY,FRENCH
#8702 07L9464 QUIET TOUCH KEYBOARD, STEALTH GRAY,ITALIAN
#8703 07L9459 QUIET TOUCH KEYBOARD, STEALTH GRAY,GERMAN/AUSTR
#8704 07L9477 QUIET TOUCH KEYBOARD, STEALTH GRAY,UNITED KINGDOM
#8705 07L9472 QUIET TOUCH KEYBOARD, STEALTH GRAY,SPANISH
#8706 07L9480 QUIET TOUCH KEYBOARD, STEALTH GRAY,JAPANESE
#8707 07L9450 QUIET TOUCH KEYBOARD, STEALTH GRAY,BRAZIL/PORTUGAL
#8708 07L9447 QUIET TOUCH KEYBOARD, STEALTH GRAY,CANAD/FRENCH
#8709 07L9452 QUIET TOUCH KEYBOARD, STEALTH GRAY,BELGIAN/FLEM
#8710 07L9453 QUIET TOUCH KEYBOARD, STEALTH GRAY,BELG/FRENCH
#8711 07L9473 QUIET TOUCH KEYBOARD, STEALTH GRAY,SWEDISH/FINN
#8712 07L9456 QUIET TOUCH KEYBOARD, STEALTH GRAY,DANISH
#8713 07L9454 QUIET TOUCH KEYBOARD, STEALTH GRAY,BULGARIAN
#8714 07L9474 QUIET TOUCH KEYBOARD, STEALTH GRAY,SWISS FRENCH GERMAN
#8716 07L9465 QUIET TOUCH KEYBOARD, STEALTH GRAY,NORWEGIAN
#8717 07L9457 QUIET TOUCH KEYBOARD, STEALTH GRAY,DUTCH
#8718 07L9467 QUIET TOUCH KEYBOARD, STEALTH GRAY,PORTUGUESE
#8719 07L9460 QUIET TOUCH KEYBOARD, STEALTH GRAY,GREEK
#8720 07L9461 QUIET TOUCH KEYBOARD, STEALTH GRAY,HEBREW
#8721 07L9462 QUIET TOUCH KEYBOARD, STEALTH GRAY,HUNGARIAN
#8722 07L9463 QUIET TOUCH KEYBOARD, STEALTH GRAY,ICELANDIC
#8723 07L9466 QUIET TOUCH KEYBOARD, STEALTH GRAY,POLISH
#8723 1 of 6 Rack Mount Kit - BM includes the following parts:
#8723 2 of 6 Screws (needs 2) 12J5289
#8723 3 of 6 Inst 19P2436
#8723 4 of 6 Bracket 19P2453

#8723 5 of 6 Line Cord 34G0253
#8723 6 of 6 Shelf 94G7442
#8724 07L9468 QUIET TOUCH KEYBOARD, STEALTH GRAY,ROMANIAN
#8725 07L9471 QUIET TOUCH KEYBOARD, STEALTH GRAY,SLOVAKIAN
#8726 07L9455 QUIET TOUCH KEYBOARD, STEALTH GRAY,CZECHIAN
#8727 07L9475 QUIET TOUCH KEYBOARD, STEALTH GRAY,TURKISH
#8728 07L9476 QUIET TOUCH KEYBOARD, STEALTH GRAY,TURKISH
#8729 07L9449 QUIET TOUCH KEYBOARD, STEALTH GRAY,LA SPANISH
#8730 07L9451 QUIET TOUCH KEYBOARD, STEALTH GRAY,ARABIC
#8732 07L9470 QUIET TOUCH KEYBOARD, STEALTH GRAY,SERBIAN/CYRIL
#8733 07L9482 QUIET TOUCH KEYBOARD, STEALTH GRAY,KOREAN
#8734 07L9481 QUIET TOUCH KEYBOARD, STEALTH GRAY,CHINESE/US
#8735 07L9448 QUIET TOUCH KEYBOARD, STEALTH GRAY,FRENCH
#8736 07L9483 QUIET TOUCH KEYBOARD, STEALTH GRAY,THAILAND
#8738 07L9469 QUIET TOUCH KEYBOARD, STEALTH GRAY,RUSSIAN
#8739 07L9478 QUIET TOUCH KEYBOARD, STEALTH GRAY,CROATIAN
#8740 07L9479 QUIET TOUCH KEYBOARD, STEALTH GRAY,US ENGLISH
#8741 08L0362 3-BUTTON MOUSE , STEALTH GRAY
#8801 08L7908 7133 MODX40: ONE 1 METER ADVANCED SSA CABLE
#8802 08L7909 7133 MODX40: ONE 2.5 METER ADVANCED SSA CABLE
#8805 08L7910 7133 MODX40: ONE 5 METER ADVANCED SSA CABLE
#8810 08L7911 7133 MODX40: ONE 10 METER ADVANCED SSA CABLE
#8811 08L7911 7133 MODX40: ONE 10 METER ADVANCED SSA CABLE
#8825 08L7912 7133 MODX40: ONE 25 METER ADVANCED SSA CABLE
#8851 09L2120 7133 MODX40: ADVANCED SSA OPTICAL EXTENDER (PAIR)
#8852 09L5564 7133 MODX40: Advanced Multi- Mode 50 Conditioner (pair)
#8853 09L5565 7133 MODX40: Advanced Multi- Mode 62 Conditioner (pair)
#9000 73H1668 ETHERNET AUI/THIN RISER
#9001 00G1276 ETHERNET TWISTED PAIR RISER
#9003 93H3561 8 MCA SLOT EXPANSION (80mb/s)
#9004 07H1119 SOUTHERN HEMISPHER SPECIFY FOR MONITORS
#9004 96G2131 SOUTHERN HEMISPHERE MONITORS
#9004 96G2131 W #3612) P50 COLOR MONITOR SH (PLUTO) MON.UVSH
#9004 96G2150 W #3613) P70 COLOR MONITOR SH (PLUTO) MON.UVSH
#9004 96G2168 W #3614) P200 COLOR MONITOR SH (PLUTO) MON.UVSH
#9005 1 of 4 ULTRA SCSI CAPABILITY INDICATOR
#9005 2 of 4 SCREW=1621170 / SPACER=74G8269 / HEADER=93H2025
#9005 3 of 4 BRACKET=93H8008 / USCSI CABEL=93H8011
#9005 4 of 4 JUMPER CABEL=93H8282 / DE/SE CONC=93H9007
#9006 61G8326 SCSI Cable 0.6m
#9010 1384540 Keyboard USA 101 for 7008
#9010 51G8572 KEYBOARD US 101 KEYS + KBD CABLE=1394608
#9011 1394543 KBD 102 KEYS BELGIAN DUTCH/FRENCH + KBD CABLE 1394609
#9012 1394541 KEYBOARD 102 KEYS CANADIAN FRENCH
#9013 1394544 KEYBOARD 102 KEYS DANISH + KBD CABLE 1394609
#9014 1394545 KEYBOARD 102 KEYS FINNISH + KBD CABLE 1394609
#9015 1394546 KEYBOARD 102 KEYS FRENCH + KBD CABLE 1394609
#9016 1394542 KEYBOARD 102 KEYS GERMAN + KBD CABLE 1394609
#9017 1394547 KEYBOARD 102 KEYS ITALIAN + KBD CABLE 1394609

#9018 88G3936 KEYBOARD 102 KEYS BRAZILIAN
 #9019 1394548 KEYBOARD 102 KEYS NORWEGIAN + KBD CABLE 1394609
 #9019 59H2678 1-8MM AME DATA CARTRIDGE MEDIA KIT
 #9020 1394549 KEYBOARD 102 KEYS PORTUGUESE + KBD CABLE 1394609
 #9021 1394550 KEYBOARD 102 KEYS SPANISH + KBD CABLE 1394609
 #9022 1394551 KEYBOARD 102 KEYS SWISS + KBD CABLE 1394609
 #9023 1395985 KEYBOARD 102 KEYS UK ENGLISH + KBD CABLE 1394609
 #9024 1395968 KEYBOARD 102 KEYS ICELANDIC + KBD CABLE 1394609
 #9025 1396077 KEYBOARD 102 KEYS TURKISH + KBD CABLE 1394609
 #9026 1396078 KEYBOARD 102 KEYS GREEK + KBD CABLE 1394609
 #9027 1396080 KEYBOARD 102 KEYS HEBREW + KBD CABLE 1394609
 #9028 1396079 KEYBOARD 102 KEYS ARABIC + KBD CABLE 1394609
 #9030 30F9388 KEYBOARD 102 KEYS JAPANESE - KANJI)
 #9031 02G7352 KEYBOARD 102 KEYS KOREAN
 #9033 02G7353 KEYBOARD 102 KEYS CHINESE TRADITIONAL - TAIWAN
 #9034 43G2778 KEYBOARD DUTCH
 #9035 43G2775 KEYBOARD TURKEY
 #9041 76H5084 3 BUTTON MOUSE
 #9042 88G3894 0.5 MB CACHE
 #9043 88G4012 1.0 MB 10NSEC CACHE
 #9044 35H8694 Base 32MB G Series Memory Card
 #9044 35H8694 32MB G SERIES MEM BASE CARD+19H0287 8MB SIMM (4 needed)
 #9045 61G8328 SCSI Cable 4.5m
 #9046 93H4357 128MB MEM SMP RIOLOBO BASE + 8x16MB DIMM=19H0288
 #9048 35H8694 64MB MEM MRE BASE CARD + 4x16MB=19H0288
 #9050 09J4714 604 1W, BASE, 112MHZ, 0.5MB L2 (FOR G40)
 #9051 09J4712 DUAL POWERPC 604 112MHZ PROC CARD WITH 1MB L2 CACHE
 #9053 75H5462 BASE 512KB SYNCHRONOUS L2 CACHE
 #9060 1 of 5 BASE I/O RACK / 62X3561 LABEL / 69X1262 LABEL
 #9060 2 of 5 71F1012 LABEL ID / 71F1013 LABEL ID 1 / 71F1016 LABEL ID 4
 #9060 3 of 5 71F1017 LABEL ID 5 / 71F1018 LABEL ID 6 / 71F1019 LABEL ID 7
 #9060 4 of 5 71F1020 LABEL ID 8 / 89X2833 CRANK / 93H7815 NAROW RACK
 #9060 5 of 5 93H8181 TILT BEKT / 93H9182 THUMBSCREW
 #9076 21L3217 32MB S5 MEMORY + 4MB SIMM=39H8924 (8x)
 #9078 21L3218 BASE 128MB (2X 64MB) S6 MEMORY / 4MB SIMM=93H8924
 #9082 42H2772 16MB EDO DRAM DIMM MEMORY
 #9083 07L7729 BASE 128MB (4X32MB) DIMMS 200PIN
 #9100 1 of 2 9333: 857MB SERIAL DISK DRIVE=70F9042 / STORAGE=07H7779
 #9100 2 of 2 CSP 857MB=07H7781
 #9101 88G0323 1 MB TEXTURE MEMORY
 #9102 88G0323 1 MB TEXTURE MEMORY
 #9103 88G0323 1 MB TEXTURE MEMORY
 #9110 -----> DC DISTR.PANEL(NOT FOR EMEA) / NO SINGLE P/N
 #9111 1 of 2 POWER DISTRIB DRAW 1PH 5 KVA=42F6860 / SCREW=1624779
 #9111 2 of 2 POWER CABLE=42F6839 NUT CLIP=74F1823 CABLE LABLE=81F9123
 #9113 53F3524 POWER DISTRIBUTION DRAWER WITH ATTACHED POWERCORD 3PH 5KVA
 #9114 31G9496 POWER DISTRIB DRAW 3PH 4.4 KVA CTRIES: 848
 #9115 79X3914 TRANSFORMER 100 TO 110 VAC
 #9116 70F9938 WALL MOUNT TRANSF 115-127 VAC

#9117 70F9939 200 TO 220 VAC X-FORMER (FOR FEATURE 6401)
 #9118 70F9940 220 TO 240 VAC X-FORMER (FOR FEATURE 6401)
 #9119 31F4221 SCSI Controller Cable 5ft / TERMINATOR=52G4260 / WRAP=00G0968
 #9120 31F4222 SCSI DEVICE TO DEVICE CONTROLLER
 #9120 61G8329 SCSI Cable 12m
 #9121 32G0397 Cable Inte.SCSI adap.-> device 1.5m /TERM=52G4259/WRAP=00G0968
 #9122 32G0397 SCSI 2 CONTROLLER CABLE / TERM 51G7736
 #9122 31F4221 SCSI Controller Cable 5ft / TERMINATOR=52G4260 / WRAP=00G0968
 #9122 08J6118 NODE ATTACHMENT NPI
 #9123 33F4606 SCSI Cable Controller-to-first-2connector-device WRAP=00G0968
 #9124 8191425 SCSI CABLE (EXCL. 7011) SCSI 2 CONTROLLER / WRAP=00G0968
 #9125 8191425 SCSI 2 CONTROLLER CABLE(7011) SCSI TERM=51G7736
 #9126 33F4607 SCSI DEVICE TO DEVICE CABLE
 #9127 1 of 2 1.5M Cable SCSI-2 Fast/Wide Adapter/A to first device=52G4531
 #9127 2 of 2 SCSI TERMINATOR=51G7736
 #9128 92F2559 SCSI 8 BIT FW CABLE / TERMINATOR=52G4260
 #9129 52G4337 1.5M SCSI-2 SE CONTROLLER TO 1ST DEVICE
 #9130 52G4337 SCSI-2 CONTROLLER TO FIRST DEVICE / TERMINATOR=61G8324
 #9130 74G6995 1.1GB SE Disk Drive Starfire
 #9131 52G4291 7204-315: Cable Device-to-device 0.66m - Wide
 #9131 74G8824 2.2GB SCSI-2 FAST/WIDE DISK DRIVE
 #9132 52G4233 Cable Dev-to-Dev Wide Bus 2.5m
 #9133 79X3795 Terminator SCSI-Diff 50-pin low density
 #9133 74G8824 2.2GB SCSI-2 FAST/WIDE DISK DRIVE
 #9134 74G7008 7013: 4.5GB F/W DASD DIFF MODULE
 #9134 74G8511 Cable SCSI-Diff 7204-215 to 7204-215
 #9135 74G6996 2.2GB SCSI 8-BIT SE (STARFIRE)
 #9136 43G0936 BASE PCI SCSI-2 FAST/WIDE SINGLE ENDED ADAPTER
 #9138 87G1358 Cable Adapter-to-7204-2xx differential device 0.6
 #9138 96G4408 BASE 4.5GB F/W DISK DRIVE MODULE
 #9139 52G9921 Cable SCSI device-to-device wide 16bit
 #9139 52G4233 7207: 0.3M F/W SE DEVICE-TO-DEVICE
 #9139 93H9005 BASE 4.5GB F/W DASD
 #9140 61G8327 SCSI Cable 14m
 #9143 52G4233 2.5M SCSI CABLE AND TERMINATOR=61G8324
 #9144 88G5746 TOWER TO TOWER 18M CABLE (NO TERMINATOR)
 #9144 88G5746 7131: Cable SCSI Diff tower-to-tower 18.0m
 #9145 88G5748 14M SCSI CABLE TOWER TO TOWER (NO TERMINATOR)
 #9146 88G5747 TOWER TO TOWER 12M CABLE (NO TERMINATOR)
 #9146 88G5747 12M SCSI CABLE TOWER TO TOWER (NO TERMINATOR)
 #9147 52G0174 SCSI-1.5M CABLE TERMINATOR=52G4260
 #9148 70G9858 PCI SCSI ADAP->2-PORT,8-BIT SE EXT DEVICE CBL/TERM.P/N 52G4260
 #9149 06H6036 1.0 SCSI-2 FW CABLE (TO PCI) TERMINATOR=92F0432
 #9150 1 of 3 Serial Optical Channel Converter SPECIFY(SOCC)=59F2969
 #9150 2 of 3 CABLE 6MTR=46F2440 / CABLE 10MTR=46F2441 / CABLE 20MTR=46F2442
 #9150 3 of 3 CABLE 60MTR=46F2443 / CABLE 100MTR=46F2444/ OPTIC WRAP=56F0203
 #9152 70G9857 1.0M SCSI CABLE AND TERMINATOR=61G8324
 #9158 70G9857 7026 7131 7248 7317 7043 1M SCSI CABLE TOW-TO-TOWER (NO TERM)
 #9159 59H2891 1.0M SCSI CABLE AND TERMINATOR=61G8324

#9160 52G4291 7131: Cable SCSI F/W Ctrl-to-tower 0.6m
 #9161 88G5749 7131: Cable SCSI Diff F/W Ctrl-to-tower 4.5m
 #9163 52G9501 7131: Cable SCSI F/W Ctrl-to-tower 1.5m
 #9164 59H2891 1.0M SCSI-2 NARROW CABLE (TO PCI) TERMINATOR=92F0432
 #9165 0798796 BASE 256MB SMP DIMMS ON 1GB CARD
 #9166 61G8324 Terminator
 #9168 90H9831 BASE 512MB R1 MEMORY GROUP / FILLER P/N 21H6950
 #9171 93H6661 POWER DISTR BASE / SIDE MOUNT, SINGLE PHASE / GND WIRE=88G0165
 #9172 -----> AC POWER SPECIFY FAB / NO SINGLE P/N
 #9173 93H6662 POWER DISTR BASE / SIDE MOUNT, THREE PHASE / GND WIRE=88G0165
 #9174 93H6663 POWER DISTR BASE / SIDE THREE PHASE SWISS / GND WIRE=88G0165
 #9175 -----> DC POWER SPECIFY FAB / NO SINGLE P/N
 #9175 70G9858 1.0M NARROW SE DEVICE-TO-DEVICE
 #9180 61G8330 SCSI Cable 18m
 #9199 -----> BATTERY BACKUP OPTION / NO SINGLE P/N
 #9201 67G1259 7135: Cable .6m for 7135-to-7135
 #9202 67G1260 7135: 2.4 Metre SCSI-2 16-Bit Differential Cable
 #9203 07G4859 9333: 10 to 3 Metre Serial-Link Cable Select
 #9203 31F4221 2.38m to 1.48m SCSI Cable Select
 #9203 1 of 2 4.5GB ULTRA-SCSI 16-BIT DISK DRIVE=83H7105
 #9203 2 of 2 SCREW=1147429 JUMPER=65F1103
 #9203 07G5127 9334: 2,38 TO 1,48-METER SCSI CABLE SELECT D/T 9334
 #9204 88G6197 2.2GB SSA DISK DRIVE MODULE
 #9205 07G5143 2.38 SCSI Cable Select
 #9205 67G1261 7135: 4.5 Metre SCSI-2 16-Bit Differential Cable
 #9206 42G2858 SCSI Cable 2.4m to attach SCSI-1 to 9334-500
 #9207 88G5755 9334: Cable adapter-to-9334-500 narrow bus 2.38m
 #9210 07G4860 9333: Standard 10m Serial-Link Cable
 #9210 00G1278 External SCSI Controller Cable 4.75m (15.5ft)
 #9211 51G8569 7015: Cable adapter-to-9334-010 - 4.75m
 #9212 52G4235 9334: Cable adapter-to-9334-010 narrow bus 4.75m
 #9212 67G1262 7135: 12.0 Metre SCSI-2 16-Bit Differential Cable
 #9212 49G6458 7208: 12 METER SCSI CABLE
 #9212 93H7896 ENH SCSI-2 F/W ADPTR/A / TERMRESIS 42G3326 non 7135
 #9213 88G2980 Disk Drive SCSI-2 344MB
 #9214 70F9188 INTEGRATED SCSI-2 CONTROLLER CABLE (Short version of #9206
 #9214 67G1263 7135: 14.0 Metre SCSI-2 16-Bit Differential Cable
 #9214 88G2972 7007: 8 MB SIMM MEMORY
 #9216 93H8814 SCSI-2 FAST/WIDE ADAPTER/A (CORVETTE) Type 4-7 -
 #9218 73H1513 INTERNAL CD ROM (ATLANTIS)
 #9218 67G1264 7135: 18.0 Metre SCSI-2 16-Bit Differential Cable
 #9218 49G6459 7208: 18 METER SCSI CABLE
 #9219 11H4779 SCSI-2 High Perf External I/O Controller 52G5484, 52G1171
 #9220 1 of 3 SCSI HI-PERF. EXTERN I/O CTRL. 50 POS CON=00G0972
 #9220 2 of 3 WRAP PLUG=07F3132 / SCSI TERM=15F6743 FUSE=40F9736
 #9220 3 of 3 SCSI CARD=51G9425 / FRU M.CODE=91F0620
 #9220 1 of 3 INTERNAL CDROM DRIVE CDROM FRU=88G3929
 #9220 2 of 3 SCREW=0010170/1621170/42F7304 CLEAN KIT=31F4232
 #9220 3 of 3 LIS DEVICE=53F3610 BEZEL KIT=70F9689

#9221 88G4768 BASE 1.44MB 3.5" DISKETTE DRIVE
 #9221 67G0593 7204-215: Cable SCSI-Diff Adapter-to-Device 7204-215 4.75m
 #9222 52G4327 9334: Cable Adapter-to 9334-011 - Narrow bus 4.75m
 #9222 16G8421 BASE INT 8MM 2.3GB VDAT TAPE / MEDIA KIT=P/N 21H5162
 #9222 54G3301 NODE ATT ETHERNET BOOT- BNC NPI
 #9223 1 of 3 INTERNAL CDROM DRIVE CDROM FRU=88G3929
 #9223 2 of 3 SCREW=0010170/1621170/42F7304 CLEAN KIT=31F4232
 #9223 3 of 3 LIS DEVICE=53F3610 BEZEL KIT=70F9689
 #9224 -----> BASE MEDIA /SCSI DRAWER / NO SINGLE P/N
 #9224 88G5757 9334: Cable Adapter-to-9334-011
 #9225 95X2492 Cable SCSI-Diff Device-to-Device 9334-011 and 7204-215 2.0m
 #9225 1 of 3 2.3GB INTERNAL 8MM TAPE DRIVE=16G8421 / ISOLATOR=00G3294
 #9225 2 of 3 SCREW=0010170 / MEDIA KIT=21H5162 / RAIL=42F7344 -
 #9225 3 of 3 ISOLATOR=00G3295
 #9225 59H3159 5GB/10GB 8MM INT TAPE DRIVE / MEDIA KIT=21H5162
 #9230 51G8553 4MB SIMM MEMORY
 #9231 59F4433 8MB SD1 - Standard (add 8 SIMMS=59F4581)
 #9232 52G4326 Cable, adapter-to-9334-501 8-bit 1.5m
 #9234 52G4801 RS6000: 16MB HD3 Memory Specify (+ 8 SIMMS=59F4581)
 #9234 88G5758 9334: Cable, Adapter-to-9334-501 8-bit 2.38m
 #9235 52G4801 32MB HD3 Memory Specify (+ 8 SIMMS=59F4582)
 #9236 59F4433 RS6000: 16MB SD1 Memory Specify (add 8 SIMMS=59F4582)
 #9236 88G5759 9334: Cable, Adapter-to-9334-501 8-bit 4.75m
 #9236 59F4582 16 MB S1 MEMORY MEMBASE CD=59F4433
 #9237 51G8553 4MB SIMM Memory
 #9238 1 of 2 64MB HD3 MEMORY CARD SELECT MEM BS 4.6=52G4801
 #9238 2 of 2 4MB DRAM=70F9973 8MB DRAM=70F9976
 #9238 88G5760 9334: Cable, Adapter-to-9334-501 8-bit 8.0m
 #9239 70F9973 32MB PROCESSOR CARD SIMM MEM.
 #9239 95X2498 Cable SCSI-Diff Device-to-Device 9334-501 2.0m
 #9242 1 of 2 160MB SCSI DISK DRIVE SPECIFY=81F8085 / SCSI CABLE=31F4284
 #9242 2 of 2 SCSI BRD=6279212 FILE MOUNT=81F9142 / SCSI POWCB=31F4285
 #9243 53H3427 355 TO 640 MB SCSI DISK SPECIFY / JUMPER=61X7052
 #9244 00G1948 DISK DRIVE SCSI 400MB Turbo Lightning Specify
 #9245 45G9495 800MB SCSI Disk Drive Specify
 #9245 6374682 1GB Differential Disk Drive (9334-011/501)
 #9245 49G6457 7208: 4.5 METER SCSI CABLE
 #9246 1 of 2 355MB SCSI Drive (additional)=53F3427
 #9246 2 of 2 JUMPER=61X7052 / HD LGC CD=6373521 / CABLE=71F1369
 #9247 53F3429 9334: 670 MB SCSI DISKDRIVE
 #9248 45G9495 857MB SCSI DISK WITH FRAME
 #9249 36G6930 DISK DRIVE 1.0GB
 #9254 51G8237 540MB SCSI Disk Drive & CABLE=43G0779
 #9254 43G0656 Multi-Protocol Communication Adapters MP/A)
 #9261 52G0061 1.3 GB WANNAMINGO 5.25" SCSI / LOGIC=31G9756
 #9264 86G9101 2.0 GB SCSI-2 FAST/WIDE DISK DRIVE
 #9271 70F9042 857MB SERIAL DASD SPECIFY / CSP 857MB=07H7781
 #9271 36G3277 POWERCABLE WT WITH. CONNECTOR OBSOLETE CANNOT BE ORDERED
 #9272 67G0535 2.0 GB SERIAL - LINK DASD

#9276 67G3284 HI-PERF. DISK DRIVE SUBSYSTEM ADAPTER 40/80MB/SEC
 #9281 11H8607 8 PORT RS232 ADAPTER / CABLE=09F1801 (REF FC 2930 + 2995)
 #9282 52G3400 3.5 INCH 2.88MB DISKETTE DRIVE / Cable = P/N 31F4283
 #9291 93H6189 AC POWER SUPPLY
 #9292 11H2712 BASE COOLING UNIT
 #9294 93H7142 BASE POWERPC 604E 166MHZ PLUG
 #9300 00G2096 KEYLCK LBL US/ENGLISH DUTCH PORTUGAL SWEDEN FRENCH BELGIUM
 #9301 35H8750 DUAL 2WAY 601 PROC CARD 0.5MB/L2 PROCESSOR
 #9302 35H8748 601 PROCESSOR CARD (CPU)
 #9303 93H2679 BASE PROC 1-WAY 166MHZ 256KB CACHE
 #9304 40H6616 BASE POWERPC 604 PROC CARD WITH 512KB L2 CACHE
 #9305 11H7517 POWERPC 604E 166MHZ PROC CARD WITH 512KB L2 CACHE
 #9305 46H9698 9076: Cable 5m switch
 #9306 93H9018 BASE PROCESSOR, POWERPC 604E 332MHZ 1-WAY PROC CARD 256KB
 #9308 73H3614 POWERPC 133MHZ 604 PROC CARD WITH 512MB L2 CACHE
 #9310 46H9699 9076: Cable 10m switch
 #9315 46H9700 9076: Cable 15m switch
 #9320 46H9701 9076: Cable 20m switch
 #9392 93H7151 2.1 GB SCSI-2, 5400 RPM HARD DISK DRIVE
 #9394 83H7105 BASE 4.5GB F/W ULTRA SCSI MODULE
 #9395 07H1119 DISK DRIVE (ORION) 2.1GB SCSI-2 F/W
 #9396 07H0390 7248-100/120/132 1.2GB SCSI-2 5400 RPM HARD DISK DRIVE
 #9397 52G0124 1080MB SCSI-2 DISK DRIVE (PEGASUS)
 #9398 74G8824 DISK DRIVE 2.2GB / DASD TRAY 06H8631
 #9399 93H9004 2.2GB SCSI-2 F/W HOT SWAP DISK DRIVE BOOK MODULE
 #9402 94H0389 604E SMP 2W, 200MHZ, BASE,2MB/ PROC L2
 #9404 90H9662 BASE POWERC-1 PROCESSOR 4W SMP 125MHZ 4MB L2 CACHE
 #9410 67G5069 STANDARD TWO 1.3GB DISK DRIVE UNITS
 #9420 67G5070 STANDARD TWO 2.0GB SCSI-2 DISK DRIVES
 #9440 1 of 2 BASE SCSI CABLE INTERN. 4-DROP 16 BIT=11H3928
 #9440 2 of 2 BRACKET=11H3764 / RETAINER=52G0227 / TERMINATOR=88G3977
 #9441 19H0398 SCSI CABLE TO INTERNAL DEVICE
 #9506 59H3465 4MM DATA CARTRIDGE
 #9527 6247468 120V Power Supply 6094-030, 6093
 #9528 39F8228 Power Cable 6094
 #9552 93H4215 SUPPORT PROCESSOR BASE
 #9601 86F1119 OPTICS ADAPTER
 #9604 73H1513 BANDERA 600MB SCSI-2 DOUBLE SPEED TRAY LOADING CD-ROM
 #9605 19H0347 CRU FOR CD ROM BANDERA / CRU NUECES=19H0347
 #9606 73H1513 4X CD-ROM DRIVE ASM / CLEAN KIT 31F4232
 #9607 73H1513 4X CD-ROM DRIVE ASM / CLEAN KIT 31F4232
 #9611 -----> POWERDISPLAY 16S NO SINGLE P/N
 #9612 -----> POWERDISPLAY 17 NO SINGLE P/N
 #9619 93H8055 BASE 12-20X, CD-ROM WITH 16-BIT CONNECTOR
 #9622 1 of 3 BASE 20X (MAX) SCSI-2 CD-ROM DIFF MODULE=09J4893
 #9622 2 of 3 CRU NUECES=19H0347 / CLEAN KIT=31F4232 / BLANK BEZEL=96G4319
 #9622 3 of 3 PLUG MEDIA=96G4320
 #9624 97H7610 32X (MAX)SCSI-2 CD-ROM DRIVE, MODEL UPGRADE ONLY
 #9651 88G2479 GXT150L Graphics Adapter

#9700 00G2096 KEYLCK LBL US/ENGLISH DUTCH PORTUGAL SWEDEN FRENCH BELGIUM
#9701 61G8323 Interposer for #2420
#9702 50G0460 Interposer for #2416
#9703 00G2279 KEYLCK LBL FRENCH
#9704 00G2281 KEYLCK LBL GERMAN
#9706 00G2285 KEYLCK LBL NORWAY
#9707 00G2096 KEYLCK LBL US/ENGLISH DUTCH PORTUGAL SWEDEN FRENCH BELGIUM
#9708 00G2287 KEYLCK LBL SPAIN
#9709 00G2096 KEYLCK LBL US/ENGLISH DUTCH PORTUGAL SWEDEN FRENCH BELGIUM
#9711 00G2283 KEYLCK LBL ITALY
#9713 00G2096 KEYLCK LBL US/ENGLISH DUTCH PORTUGAL SWEDEN FRENCH BELGIUM
#9730 73G9730 AUI MEDIA EXPANSION PORT ELEMENT EXCHANGE
#9731 73G9731 10BASE2 MEDIA EXPANSION PORT ELEMENT EXCHANGE
#9732 73G9732 FIBER MEDIA EXPANSION PORT ELEMENT EXCHANGE
#9746 06H9543 6015: 270MB Disk Drive
#9747 06H9543 6015: 360MB Disk Drive
#9749 82G5933 6015: 720MB SCSI HDD PN=66G9694
#9800 6952300 9-FOOT POWER CORD, US/CANADA
#9800 12J5112 7133 MODX40: POWER CORD US/CANADA
#9800 11F0113 LINECORD US - CANADA AND WATERTIGHT CTRIES:
#9800 6952301 POWER CORD SPECIFY - US / CAN (125V, 15A)
#9801 46F4594 LINECORD RAISED FLOOR U.S
#9820 6246270 POWER CORD SPECIFY - BELGIUM, FINLAND, FRANCE (250V, 16A)
#9820 55H6643 7133 MODX40: POWER CORD FRANCE
#9820 13F9979 7204/8: LINE CORD EMEA
#9820 1339520 7206: MONCRDEURO
#9821 6246271 POWER CORD SPECIFY - DENMARK (250V, 10A)
#9821 13F9997 7204/8: LINE CORD DENMARK 9 FT
#9822 11F0106 LINECORD AUSTRALIA
#9823 31F4466 LINECORD EMEA (PDU)
#9824 11F0115 LINECORD JAPAN & 60HZ APG
#9825 6246273 POWER CORD SPECIFY - UK (250V, 13A)
#9825 55H6645 7133 MODX40: POWER CORD UK
#9825 14F0033 720X: LINE CORD UK 9 FT
#9826 11F0107 LINECORD NEW ZEALAND
#9827 6246276 POWER CORD SPECIFY - ISRAEL (250V, 6-16A)
#9827 55H6647 7133 MODX40: POWER CORD ISRAEL
#9827 14F0087 720X: LINE CORD ISRAEL 9 FT
#9828 6246274 POWER CORD SPECIFY - SWISS (250V, 10A)
#9828 14F0051 720X: LINE CORD SWITZERLAND 9 FT
#9829 6246272 POWER CORD SPECIFY - SOUTH AFRICA / PAKISTAN (250V, 16A)
#9829 12J5124 7133 MODX40: POWER CORD SOUTH AFRICA
#9829 14F0015 720X: LINE CORD S/A PAKISTAN 9 FT
#9830 6246275 POWER CORD SPECIFY - ITALY (250V, 10A & 16A)
#9830 12J5126 7133 MODX40: POWER CORD ITALY
#9830 14F0069 720X: LINE CORD ITALY 9 FT
#9831 13F9940 POWER CORD SPECIFY - ARGENTINA
#9831 6952311 9 FT POWERCORD AUSTRALIA
#9831 12J5128 7133 MODX40: POWER CORD AUSTRALIA

#9831 13F9940 7204/8: 9 FT POWERCORD AUSTRALIA
 #9833 1838574 POWER CORD SPECIFY - THAILAND/ PERU
 #9833 12J5120 7133 MODX40: POWER CORD US/CANADA
 #9833 1838574 7204/8: 9 FT POWERC US/CANADA/ POW CRD LV=6952301
 #9833 6952300 7203/7: 9 FT POWERCORD US / CANADA
 #9834 6952291 9-FOOT POWER CORD URUGUAY
 #9834 14F0033 POWERCORD URUGUAY
 #9835 12J5119 7133 MODX40: POWER CORD MEXICO
 #9836 6495269 SCSI SYSTEM TO DEVICE CABLE (12 METER - 39.3 FEET) AS/400
 #9837 12J5118 7133 MODX40: POWER CORD ARGENTINA
 #9846 21F4980 7208: SCSI ATTACHMENT
 #9850 07G4834 INPUT POWER 220V 50/60HZ
 #9851 07G4833 POWER INPUT 110V 50/60HZ
 #9894 65G6874 REMOTE RE-IPL PORT /INTERFACE / CABLE RES=65G6880
 #9900 87G3880 125V/15A/PT#4 US/CAN LINE CORD
 #9901 13F9980 250V/16A/PT#18 EMEA LINE CORD
 #9902 13F9998 250V/10A/PT#19 DNMRK LINE CORD
 #9903 14F0034 250V/13A/PT#23 UK LINE CORD
 #9904 14F0088 250V/16A/PT#32 ISRAL LINE CORD
 #9905 14F0052 250V/10A/PT#24 SWISS LINE CORD
 #9906 14F0016 250V/16A/PT#22 INDIA LINE CORD
 #9907 14F0070 250V/16A/PT#25 ITALY LINE CORD
 #9908 13F9941 250V/10A/PT#6 AUS + LINE CORD
 #9909 1838573 250V/15A/PT#5 THAILD LINE CORD
 #9910 09P0509 125V/15A/PT#4 JAPAN LINE CORD
 #9911 36L8861 STD DRWR/PDU LINE CORD
 #9919 21L2906 SINGLE PHASED POWER
 #9920 77G0950 9076: LOW VOLTAGE POWER CORD
 #9921 54G2934 HIGH VOLTAGE POWER TRANSFORMER
 #9921 09L5508 7133 MODX40: STANDARD 1 CARD HOST BYPASS
 #9970 00G2652 Token-Ring High-Performance Network Adapter
 #9980 00G3368 Ethernet High-Performance LAN Adapter
 #9986 6952301 6-FOOT POWER CORD, US/CANADA
 #9986 11F0114 POWER CORD CHICAGO
 #9987 11F0117 LINECORD RAISED FLOOR CHICAGO / CABLE=P/N 31F4224
 #9988 43G0681 GT3I GRAPHIC ADPT/RGB CB EXT=58F2903/CARD LATC=59F4089L
 #9990 93H2945 GT4E GRAPH ADPT RGB CB EXT=58F2903/CARD LATC=59F4089
 #9991 8184016 GTX100 GRAPHICS ADAPTER / GRAPH 8MB = P/N 52G3206
 #9992 8184016 GTX150 GRAPHIC ADAPTER / GRAPH 24MB = P/N 52G3207
 #9992 67G1246 7135: POWER CORD
 #9993 67G1245 7135: POWER CORD WITH FC 3001
 #9995 93H6280 INTERNAL RAID INDICATOR

 RPQ 31F4217 NON LOCKING 8A0508
 RPQ 32F0662 POWERSUPPLY 48 V DC ITALY ONLY 8A0513
 RPQ 79F4757 208V LOCKING PLUG LINE CORD 8A0514
 RPQ 52G4715 MINUS 48 VOLT POWER SUPPLY POWERCORD=P/N 52G4759 8A0697
 RPQ 88G0265 MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD 8A0765
 RPQ 88G0265 MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD 8A0766

RPQ	88G0265	MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD	8A0767
RPQ	88G0265	MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD	8A0768
RPQ	88G0265	MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD	8A0769
RPQ	88G0265	MEGATEK MG33 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD	8A0836
RPQ	8184306	OR (#8000) RAINBOW 3 TURBO	8A0865
RPQ	88G0265	MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD	8A0870
RPQ	88G0265	MEGATEK MG24 GRAPH ADPTR FOR IBM RS/6000 BIG BIRD	8A0871
RPQ	09J4880	RPQ 8A1091 FOR MODEL R50	8A1091
RPQ	21L4555	MON FRU SB G96 RPA DISPLAY	8A1125
RPQ	3RD	DASD RPQ 05J7985 6-32X187 / 07N3674 18GB DRIVE	8A1133
RPQ	75G2878	SCREW M3.5	8A1133
RPQ	DUAL	CEC LINECRD RPQ / 11F0113 CABLE ASM / 1621811 SCREW M4	8A1141
RPQ	21H7000	AC MODULE / 21H7261 WT AC MODU / 21H7719 1KW POWSUP	8A1141
RPQ	21P4079	POWR FRAME / 21P4640 SPCN DLC / 04N6092 HOTPLUG BK	8A1141

DISCLAIMER: This page is intended for IBM internal use and are not structured according to any corporate standards.

Updated Feb 2004 by Bruno Croft



PART NUMBERS vs FFC



NOTE: This is not Feature Codes (FC) but Failing Function Code (FCC). This is intended mainly for hardware technicians, not really helpful for marketing people.

Aug 21 2002

ASCII Character Set

DEC OCT
HEX

0

0	00		Ctrl-@	NUL	null		
	1	1	01	Ctrl-A	SOH	start of heading	White Face
	2	2	02	Ctrl-B	STX	start of text	Black Face
	3	3	03	Ctrl-C	ETX	end of text	Heart
	4	4	04	Ctrl-D	EOT	end of transmission	Diamond
	5	5	05	Ctrl-E	ENQ	enquiry	Club
	6	6	06	Ctrl-F	ACK	acknowledge	Spade
	7	7	07	Ctrl-G	BEL	bell	Center Dot
	8	10	08	Ctrl-H	BS	backspace	Black Square1
	9	11	09	Ctrl-I	HT	horizontal tab	Nothing
	10	12	0A	Ctrl-J	LF	new line	Black Square2
	11	13	0B	Ctrl-K	VT	vertical tab	Male Sign
	12	14	0C	Ctrl-L	FF	form feed	Female Sign
	13	15	0D	Ctrl-M	CR	carriage return	1 note
	14	16	0E	Ctrl-N	SO	shift out	2 notes
	15	17	0F	Ctrl-O	SI	shift in	Bright Sun
	16	20	10	Ctrl-P	DLE	data link escape	Right triangle
	17	21	11	Ctrl-Q	DC1	device control 1	Left triangle
	18	22	12	Ctrl-R	DC2	device control 2	Up-Down arrow
	19	23	13	Ctrl-S	DC3	device control 3	Double Exclam
	20	24	14	Ctrl-T	DC4	device control 4	?????
	21	25	15	Ctrl-U	NAK	negative acknowledge	?????
	22	26	16	Ctrl-V	SYN	synchronous idle	Small Square
	23	27	17	Ctrl-W	ETB	end of transmission block	Up&Down Arrow
	24	30	18	Ctrl-X	CAN	cancel	Up Arrow
	25	31	19	Ctrl-Y	EM	end of medium	Down Arrow
	26	32	1A	Ctrl-Z	SUB	substitute	Right Arrow
	27	33	1B	Ctrl-[	ESC	escape	Left Arrow
	28	34	1C	Ctrl-\	FS	file separator	Downleft Corner
	29	35	1D	Ctrl-]	GS	group separator	Left&Right Arrow
	30	36	1E	Ctrl-^	RS	record separator	Up Triangle
	31	37	1F	Ctrl-_ 39	US	unit separator	Down Triangle
	32	40	20		SP	digit select, space	
	33	41	21		!	exclamation point	!
	34	42	22		"	double quotation mark	"
	35	43	23		#	pound sign, number sign	#
	36	44	24		\$	dollar sign	\$
	37	45	25		%	percent sign	%
	38	46	26		&	ampersand	&
	39	47	27		'	apostrophe	'

40	50	28	(	left parenthesis	(
41	51	29	)	right parenthesis)
42	52	2A	*	asterisk (not Asterix)	*
43	53	2B	+	addition sign	+
44	54	2C	,	comma	,
45	55	2D	-	substraction sign	-
46	56	2E	.	period	.
47	57	2F	/	right slash	/
48	60	30	0		0
49	61	31	1		1
50	62	32	2		2
51	63	33	3		3
52	64	34	4		4
53	65	35	5		5
54	66	36	6		6
55	67	37	7		7
56	70	38	8		8
57	71	39	9		9
58	72	3A	:	colon	:
59	73	3B	;	semicolon	;
60	74	3C	<	less than sign	<
61	75	3D	=	equal	=
62	76	3E	>	greater than	>
63	77	3F	?	question mark	?
64	100	40	@	at sign	@
65	101	41	A		A
66	102	42	B		B
67	103	43	C		C
68	104	44	D		D
69	105	45	E		E
70	106	46	F		F
71	107	47	G		G
72	110	48	H		H
73	111	49	I		I
74	112	4A	J		J
75	113	4B	K		K
76	114	4C	L		L
77	115	4D	M		M
78	116	4E	N		N
79	117	4F	O		O
80	120	50	P		P
81	121	51	Q		Q

82	122	52	R		R
83	123	53	S		S

84	124	54	T		T
85	125	55	U		U
86	126	56	V		V
87	127	57	W		W

88	130	58	X		X
89	131	59	Y		Y
90	132	5A	Z		Z
91	133	5B	[	left bracket	[

92	134	5C	\	left slash, backslash	\
93	135	5D	]	right bracket]
94	136	5E	^	hat, circumflex, caret	^
95	137	5F	_	underscore	_

96	140	60	`	grave accent, backquote	`
97	141	61	a		a
98	142	62	b		b
99	143	63	c		c

100	144	64	d		d
101	145	65	e		e
102	146	66	f		f
103	147	67	g		g

104	150	68	h		h
105	151	69	i		i
106	152	6A	j		j
107	153	6B	k		k

108	154	6C	l		l
109	155	6D	m		m
110	156	6E	n		n
111	157	6F	o		o

112	160	70	p		p
113	161	71	q		q
114	162	72	r		r
115	163	73	s		s

116	164	74	t		t
117	165	75	u		u
118	166	76	v		v
119	167	77	w		w

120	170	78	x		x
121	171	79	y		y
122	172	7A	z		z
123	173	7B	{	left brace	{

124	174	7C	|	logical or, pipe, vertical bar	|
125	175	7D	}	right brace	}
126	176	7E	~	similar, tilde	~
127	177	7F	DEL	delete	Small House
128	200	80	Note: Characters greater than 127 appears different		
129	201	81	on the Internet than the IBM-850 normally used		
130	202	82	on AIX v3.2		
131	203	83			
132	204	84	"		"
133	205	85	...		...
134	206	86	†		†
135	207	87	‡		‡
136	210	88	^		^
137	211	89	%		%
138	212	8A	Š		Š
139	213	8B	<		<
140	214	8C	Œ		Œ
141	215	8D	•		•
142	216	8E	Ž		Ž
143	217	8F	•		•
144	220	90	•		•
145	221	91	`		`
146	222	92	'		'
147	223	93	"		"
148	224	94	"		"
149	225	95	•		•
150	226	96	-		-
151	227	97	-		-
152	230	98	~	~	
153	231	99	™		™
154	232	9A	š		š
155	233	9B	>		>
156	234	9C	œ		œ
157	235	9D	•		•
158	236	9E	ž		ž
159	237	9F	ÿ		ÿ
160	240	A0			
161	241	A1	ı		ı
162	242	A2	ç		ç
163	243	A3	£		£
164	244	A4	¤		¤
165	245	A5	¥		¥
166	246	A6	|		|

167	247	A7	Š	Š
168	250	A8	ˆ	ˆ
169	251	A9	©	©
170	252	AA	ª	ª
171	253	AB	«	«
172	254	AC	¬	¬
173	255	AD	-	-
174	256	AE	®	®
175	257	AF	-	-
176	260	B0	°	°
177	261	B1	±	±
178	262	B2	²	²
179	263	B3	³	³
180	264	B4	´	´
181	265	B5	µ	µ
182	266	B6	¶	¶
183	267	B7	·	·
184	270	B8	¸	¸
185	271	B9	¹	¹
186	272	BA	º	º
187	273	BB	»	»
188	274	BC	¼	¼
189	275	BD	½	½
190	276	BE	¾	¾
191	277	BF	¿	¿
192	300	C0	À	À
193	301	C1	Á	Á
194	302	C2	Â	Â
195	303	C3	Ã	Ã
196	304	C4	Ä	Ä
197	305	C5	Å	Å
198	306	C6	Æ	Æ
199	307	C7	Ç	Ç
200	310	C8	È	È
201	311	C9	É	É
202	312	CA	Ê	Ê
203	313	CB	Ë	Ë
204	314	CC	Ì	Ì
205	315	CD	Í	Í
206	316	CE	Î	Î
207	317	CF	Ï	Ï
208	320	D0	Ð	Ð

209	321	D1	Ñ	Ñ
210	322	D2	Ò	Ò
211	323	D3	Ó	Ó
<hr/>				
212	324	D4	Ô	Ô
213	325	D5	Õ	Õ
214	326	D6	Ö	Ö
215	327	D7	×	×
<hr/>				
216	330	D8	Ø	Ø
217	331	D9	Û	Û
218	332	DA	Ú	Ú
219	333	DB	Û	Û
<hr/>				
220	334	DC	Ü	Ü
221	335	DD	Ý	Ý
222	336	DE	Ɔ	Ɔ
223	337	DF	ß	ß
<hr/>				
224	340	E0	à	à
225	341	E1	á	á
226	342	E2	â	â
227	343	E3	ã	ã
<hr/>				
228	344	E4	ä	ä
229	345	E5	å	å
230	346	E6	æ	æ
231	347	E7	ç	ç
<hr/>				
232	350	E8	è	è
233	351	E9	é	é
234	352	EA	ê	ê
235	353	EB	ë	ë
<hr/>				
236	354	EC	ì	ì
237	355	ED	í	í
238	356	EE	î	î
239	357	EF	ï	ï
<hr/>				
240	360	F0	ð	ð
241	361	F1	ñ	ñ
242	362	F2	ò	ò
243	363	F3	ó	ó
<hr/>				
244	364	F4	ô	ô
245	365	F5	õ	õ
246	366	F6	ö	ö
247	367	F7	÷	÷
<hr/>				
248	370	F8	ø	ø
249	371	F9	ù	ù
250	372	FA	ú	ú
251	373	FB	û	û

252	374	FC	ü	ü
253	375	FD	ý	ý
254	376	FE	ÿ	ÿ
255	377	FF	ÿ	ÿ

INed Command

KEYS

BACKSPACE	Keys
BEGIN LINE	Backspace
BOX MARK	Alt-B
BREAK	Ctrl-Backspace
CANCEL	Scroll Lock
CENTER	Alt-C
DELETE CHAR	Delete
EXECUTE	Action
EXIT	Alt-D

CSU/CE Feature Installation

The official list can be found in the Diagnostics Information for Multiple Bus Systems SA38-0509. It is available at that URL:

[Manual PDF format \(Several MB, required fast connection\)](#)

(After Acrobat is started, Expand 1) About This Book

2) Click on CSU/CE Feature Installation

Other source is RETAIN HSF H16222

System Type	Model	System CSU	Features/Options CE Install	Customer Install
2104	ALL	YES	All features	None
3490	All	No	All features	None
3494	All	No	All features	None
3570	B00 B01 B02 C00 C01 C02	Yes	All features	None
3570	Others	No	All features	None
3575	All	No	All features	None
3580	All	Yes	None	All features
3581	All	Yes	None	All features
3583	All	Yes	None	All features
3590	All	No	All features	None
3595	All	No	All features	None
7006	ALL	YES	All FEATURES	NONE
7007	ALL	YES	ALL FEATURES	NONE
7008	ALL	YES	ALL FEATURES	NONE
7009	ALL	YES	ALL FEATURES	NONE
7010	ALL	YES	ALL FEATURES	NONE
7011	ALL	YES	ALL FEATURES	NONE
7012	ALL	YES	ALL FEATURES	NONE
7013	All*	No	ALL FEATURES	NONE
7015	ALL	NO	ALL FEATURES	NONE
7017	ALL	NO	ALL FEATURES	NONE
7024	ALL	YES	FC 6309	All other features
7025	ALL	YES	FC 2856/6309/ 6549/5217/ 5219/5221	All other features
7026	ALL except b80	NO	ALL OTHER FEATURES	FC 2901, 2908, 2909, 2911, 2913, 3071, 3072, 3074,

7026	B80	YES	4361/4362 4365/4366	All other features
7027	ALL	NO	ALL OTHER FEATURES	FC 2616, 3080,3083, 3084, 3090, 6142, 6147, 3133, 3134, 3137, 3138, 6153, 6294, 6295
7028	ALL	YES	NONE	ALL Features
7043	ALL	YES	FC 2856 & 6309	ALL OTHER FEATURES
7044	All	Yes	2856 6309	All other features
7046	All	Yes	2856 6309	All other features
7236	ALL	NO	ALL FEATURES	NONE
7248	ALL	YES	FC 2856	ALL OTHER FEATURES
7317	ALL	NO	ALL FEATURES	NONE
7318	ALL	NO	ALL FEATURES	NONE
7319	ALL	NO	ALL FEATURES	NONE
7133	D40/T40	NO		
2104	ALL	Yes		

Feature Code

Feature Code Description

2616 INTERNAL CD-ROM2/4X/TRAY LOADING, 600KB/S

2856 PCI/SHORT/32BIT/3.3 OR 5V, 7250 ATTACH ADAPTER

2901 4.5GB F/W ULTRA SCSI DASD MODULE

2911 9.1GB F/W ULTRA SCSI DASD MODULE

2913 9.1GB F/W ULTRA MODULE, 1" HIGH

3071 4.5GB SSA DASD MODULE, 1" HIGH

3072 9.1GB SSA DASD MODULE, 1.6" HIGH

3080 4.5GB F/W SCSI DASD MODULE

3083 2.2GB F/W SCSI DASD MODULE

3084 4.5GB F/W SCSI DASD MODULE

3090 9.1GB F/W SCSI DASD MODULE

3133 CABLE SCSI, 3M, TO F/W MC SCSI ADAPTER (SE OR DIFF)

3134 CABLE SCSI, 6M, TO F/W MC SCSI ADAPTER (SE OR DIFF)

3137 CABLE SCSI/DIFF, 12M, TO F/W MC SCSI ADPTR

3138 CABLE SCSI/DIFF, 18M, TO F/W MC SCSI ADPTR

5217 2-Way 750MHz Processor Card

5219 4-Way 750MHz Processor Card

5221 6-Way 750MHz Processor Card

6142 INTERNAL 4MM 4/8GB TAPE

6147 8MM 5/10GB VDAT TAPE

6153 4MM TAPE DRIVE + AUTOLOADER, HORIZONTAL

6309 Digital Trunk Quad PCI Adapter

6294 OPTIONAL AC POWER SUPPLY FOR 7027 SCSI DRAWERS

6295 OPTIONAL BIFURCATED (Y-cable) POWER CORD FOR 7027 SCSI DRAWERS

6309 Digital Trunk Quad Adapter, PCI/LONG/32BIT/5V

6549 ADDITIONAL POWER SUPPLY FOR 2ND AND 3RD 6-PKS ON MODEL F40

Updated: Dec 2003 Bruno Croft

Diagnostics

Links of interest: [Diagnostics History](#) | [Diagnostics Enhancements](#)

Version	Date		P/N		New Support
5.2.0.11	Oct 2003	CD-ROM	80P2692 80P2690	IBM logo no logo	No MCA system support !
5.2.0.10	May 2003	CD-ROM	00P5602 00P5600	IBM logo No logo	No MCA system support !
5.2.0.0	Oct 2002	CD_ROM	00P3192 00P3190	IBM logo no logo	No MCA system support !
5.1.0.25 APAR IY28102 U482440	Apr 2002	CD-ROM	09P6344 09P6341	IBM logo no IBM logo	Last one for MCA support ! 7028-6C4/6E4 Ler 9112-265 Colt
5.1.0.15	Dec 2001	CD-ROM	09P4258 09P4255	IBM logo no IBM logo	7040-681 Regatta IDE CD-ROM #2633/#2634 4-port USB Kbd/mouse #2737
4.3.3.5	Sep 2001	CD-ROM	09P4225 09P4864	IBM logo no IBM logo	7026-6M1 7028-6C1/6E1 GXT135P Lanai 4-Port 10/100 #4961 A-E Clover+ 10/100 Ethernet #4962 A-F Scurry Dual Channel Ultra3 SCSI #6203 Genie IDE CD-ROM 36.4GB Ultra3 #3263 Scallop 72.8GB Ultra3 #3264 Scallop
5.1	Apr 2001	CD-ROM	09P3050 09P3047	IBM logo no IBM logo	7025-6F1 7026-6H1 64-bit Gigabit Fiber GXT140P 2D 4.7GB DVD-RAM Disk Drive 9.1GB Ultra3 #3156 18.2GB Ultra3 #3157 36.4GB Ultra3 #3158 72.8GB Ultra3 #3159

4.3.3.3	Oct 2001	CD-ROM	09P1753 no IBM logo 09P1756 IBM logo	7025-F80 7026-H80/M80/B80 7044-170 400MHz Gigabit Ethernet #2975 4-Channel Ultra3 SCSI RAID #2948 2104-DU3/TU3 4MM 2GB/40GB Tape Drive #6158 GXT4000P #2826 GXT6000P #2827 622 ATM PCI #2946
4.3.3.2	Feb 2000	CD-ROM	09P0295 no IBM logo 09P0298 IBM logo	Gigabit Ether
4.3.3.1	Feb 2000	CD-ROM	00P1885 no IBM logo 00P1888 IBM logo	7044 Disks: 10,000RPM Ultra disks Mako, Thornback 1-U GXT300P, 9-Z Ethernet 4-port 4-U Ultra Differential SCSI
4.3.3	Sep 1999	CD-ROM	11K0202 no IBM logo 11K0205 IBM logo	7017-S80 7046-B50 Token-Ring #4959 PCI Dual Channel Ultra2 SCSI Adapter #6205 LVD Expandable Storage Unit 2104
4.3.2.1	Mar 1999	CD-ROM	41L6233 no IBM Logo 41L6236 IBM Logo	PCI 3-Channel Ultra SCSI RAID Adapter #2494 GXT2000P #2823 ASPI 2-Port Multiprotocol #2962 Advanced Serial RAID Adapter #6225

Version 4.3.2 CD-ROM Part#:08L1430

New Support:

7017-S7A / 7043-260 / 7043-150
Gigabit Ethernet Adapter
32X CD-ROM / GXT3000P

Version 4.3.1 CD-ROM w/o IBM logo Part#:07L8790

CD-ROM w/ IBM logo Part#:07L8793

New Support:

**12/24GB Internal 4MM Tape Drive, 9.1GB Ultra SCSI 16-bit 1-inch,
4.5 GB Fast/Wide Ultra SCSI DASD**

Version 4.3.0 IBM logo 07L6627

(10/97) No IBM logo 07L6624

New support: S70 - 7043-140 (332MHz) 7012-397 7030-397

Version 4.2.1 93H6238 CDROM w/ IBM logo

(04/97)

New Support: 7013-J50, 7015-R50, &025-F50 7317-F3I

Version 4.1.5 93H3616 CDROM w/o IBM logo Note: 4.1.5 is post to 4.2

(10/96) 93H3619 CDROM w/ IBM logo

Version 4.2 40H3621 CD-ROM IBM Logo

(05/96) 40H3618 CD-ROM

40H0851 4MM

40H3431 8MM

40h3436 QIC

Version 4.1.4 40H3394 CDROM w/o IBM logo

(10/95) 40H3401 CDROM w/ IBM logo

40H0851 4MM Tape

40H3431 8MM Tape

40H3436 1/4" Tape

Version 4.1.3 39H8211 CD-ROM

(06/95) 40H2533 4MM

40H2538 8MM

40H2544 1/4"

Version 4.1.2 11H5869 CD-ROM

Version 2.4.3 88G3890 Diskettes

88G4733 CD-ROM

AIX 3.2 >3251 DEVICE DIAGNOSTICS U442641 <- U438873

AIX 4.1 4.1.3.1 GXT500 Graphics Adapter Diagnostics

PTFs:

APAR IX46249 - PTF U443501

DIAG. SUPPORT FOR THE 1.1GB, 2.2GB AND 4.4GB SCSI DISK DRIVES

Version 2.4.3 diskette content

Diskette 1A: Boot Diskette for systems with 16MB of Memory or more.

Diskette 1B: Boot Diskette for systems with less than 16MB of Memory.

Diskette 2: Configuration Diskette

Diskette 3A: Contains console support and Diagnostic Applications for the following:

- Color Graphics Display Adapter**
- Grayscale Graphics Display Adapter**
- POWER Gt1 Graphics Adapter**
- POWER Gt1x Graphics Adapter**
- POWER GXT100 Graphics Adapter**
- POWER GXT150 Graphics Adapter**

Diskette 3B contains console support and Diagnostic Applications for the following:

- POWER Gt3 Graphics Subsystem**
- POWER Gt3i Graphics Subsystem**
- POWER Gt4 8-Bit Graphics Subsystem**
- POWER Gt4 24-Bit Graphics Subsystem**
- POWER Gt4e Graphics Subsystem**
- POWER Gt4x 8-Bit Graphics Subsystem**
- POWER Gt4x 24-Bit Graphics Subsystem**
- POWER Gt4i 24-Bit Graphics Subsystem**
- POWER Gt4xi 8-Bit Graphics Subsystem**
- POWER Gt4xi 24-Bit Graphics Subsystem**

**Diskette 3C: High Performance 8-Bit 3D Color Graphics Processor
High Performance 24-Bit 3D Color Graphics Processor
Graphics Subsystem Adapter**

Diskette 4: Console Configuration and Pretest Diskette

Diskette 5: SCSI Internal/External I/O Controller

- SCSI-2 Fast/Wide Adapter/A**
- Wide SCSI I/O Controller**
- CDROM Drive**
- 3.5/5.25" Diskette Drive**
- 1/4-Inch Cartridge Tape Drive**
- 2.3 GB 8mm Tape Drive / 5 GB 8mm Tape Drive**
- 4mm Tape Drive**
- 9-Track Tape Drive**
- 1/2-Inch 3490E C10, C11, C22 Tape Drive**
- 160MB/200MB/320MB/400MB/355MB/540MB/670MB/857MB/1GB/
1.37GB/2.0GB/2.4GB SCSI Disk Drive**
- 120MB/160MB Direct Bus Attach Disk**
- High Performance Disk Drive Subsystem**
- Format/Certify Disk Drive Service Aid**

Serial Disk Trace Service Aid
SCSI Bus Service Aid
Diskette Media Service Aid
Alter Bootlist Service Aid

Diskette 6A: Diagnostics Application for the followings:

Ethernet High-Performance LAN Adapter
Portmaster Adapter/A
4-Port Multiprotocol Communication Controller
X.25 Interface Co-Processor/2
Multiport/2 ADapter
Token Ring High-Performance Network Adapter
Local Area Network Service Aid

Diskette 6B: Diagnostics Application for the followings:

3270 Connection
5080 Attachment Adapter
Serial Optical channel Converter

Diskette 7A: Diagnostics Application for the followings:

Standard I/O Serial Port
Graphics Input Device Adapter
Dials
Lighted Program Function Keys
Async Expansion adapter
8-Port Async Adapters
16-Port Async Adapters
64-Port Async Controller and Concentrator
128-port Async Controller and Remote Async Node
Configure Dials/LPFKeys Service Aid

Diskette 7B: Diagnostics Application for the followings:

Standard I/O Parallel Port
Keyboard Adapter and Keyboard
Tablet Adapter and Tablet
Mouse Adapter and Mouse

Diskette 8: Diagnostics Service Aids for the followin

CEREADME File
Display/Alter Configuration Service Aid
Display Test Patterns Service Aid
Diagnostic Test List Service Aid
Product Topology Service Aid

Diskette 9: Diagnostics Application for the followings:

M-Audio Capture and Playback Adapter
M-Video Capture Adapter
M-Video Capture Adapter Service Aid

Supplemental Diagnostics Diskette FRU Part Number

Artic multiport/2 .5/1.0 MB and portmaster .5/1.0 MB 43G2259

FDDI	65G7507
HIPPI	65G6553
Network Terminal Accelerator	8184102
S/370 block multiplexer channel adapter	65G1829
S/370 parallel channel	32G1451
S/370 serial-channel ESCON	43G0238
Speech Accelerator 1 adapter	40G6292
1 port MP (PS/2) adapter	43G0657
128 port cluster controller	51G8138
Fibre Channel/266	11H2519
Ultimedia Audio Feature Adapter	11H5718
Diskette 3S: for GXT150M	11H3618
	(11H3619)

USA Address for Topology diskette (thanks to David Caneen, Albany !)

**IBM Corp.
Internal Zip 1307
11400 Burnet Rd.
Austin, TX 78758-3493**

Success is a journey... not a destination

Last Updated Dec 2003 by Bruno Croft

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System Model	SYSTEM CURRENT LEVEL	SERV PROC	DATE
6015-40P	1.29		
7012-G40+	09.51		
7013-R40/ R50	09.51		
7013-J40/ J50	09.51		
7017-S80/ S85	20020118	03/05/2002	20020118
7017-S70/ S7A	20010824	10/18/2001	20010824
7024-E20	VIC97276		
7024-E30	VIC97276	97206	
7025-F30	VIC97276	97206	
7025-F40	TR01150	08/30/2001	
7025-F50	L01337	01/21/2002	WC010611
7025-F80/ 6F0/ 6F1.	CL020407	04/24/2002	N/A

7026-B80	NAN02066	03/29/2002	SC020308		
7026-H10	TR01150	08/30/2001			
7026-H50	L01337	01/21/2002	AG010611		
7026-H70	SST01256	10/23/2001	SS010614		
7026-H80/	CM020407	04/24/2002	N/A	lscfg -vp | grep -F .CM	ROM
Level.(alterable).....CM020617					
6H0/					
6H1					
7026-M80/	MM020407	04/24/2002	N/A		
6M1					
7028-6E1/					
6C1/					
9112-265					
7040-671/	3H030916			lscfg -vp | grep -p Platform	Rom
Level.(alterable)..... 3H020916					
681 3H030905					
3H030811					
3H030717					
3H030703					
3H030617					
3H030608					
7043-140	TIG01150	07/30/2001	N/A		
7043-150	TCP02007	02/18/2002	N/A		
7043-240	DOR01150	07/30/2001			
7043-260	SPX01344	04/12/2002	PX010921		
7044-170	SPH02066	04/12/2002	SH020307		
7044-270	SPH02066	04/12/2002	SH020307		

9076:

604/604e 09.51 11/17/1998

332MHz	L02113	08/14/2002		lscfg -vp | grep -p 'System Firmware'
(Silver)			WC010611	lscfg -vp | grep -p 'Service Processor'

375MHz T/W	SPH02066	04/09/2002	SH020307
(Winterhawk II)			

SMP T/W	SPX01344	04/18/2002	PX010921
(Winterhawk I)			

SMP HIGH	NI02021	03/29/2002	NH020110
(222 MHz Nighthawk)			

375 SMP HIGH NI02021 03/29/2002 NH020110
 (Nighthawk II)

2105:
 E10/E20 L00278 12/12/2002 WC000901

MODEL	SYSTEM FLASH (Firmware)	SMS	IMAGE	
7020-40P	1.29			(2 separate diskettes)
& 6015	1.26		P12H0354.IMG	(one signle diskette)
	1.24		P11H7429.IMG	(one signle diskette)
	1.22		P11H6377.IMG	(one signle diskette)
7248-ALL:	1.12	1.07	P93H7075.IMG	(2 separates diskettes)
	1.11		P93H7075.IMG	(2 separates diskettes)

[Update: Oct 2003 by BJ Croft](#)



LED

Multiple-Bus & MCA:

- [All 3-digit LED codes](#)
- [0cX Dump Progress Indicators](#)
- [100 to 199 Built-in Self-Test \(BIST\) Indicators \(MCA\)](#)
- [200 to 325 Power-On Self-Test \(POST\) Indicators \(MCA\)](#)
- [2E6-2530 Configuration Program Indicators \(Both\)](#)
- [cXX Diagnostics Load Progress Indicators](#)
- [9076 SP](#)
- [ERROR ID \(Restricted\)](#)

MULTIPLE BUS:

- [Browse Diag Info \(2.1MB\) \(For fast connection\)](#)
- [Firmware Checkpoints Codes \(3-digit F codes\)](#)
- [8-Digit Error Codes](#)
- [EXXX](#)
- [EXXX for SP Switch](#)
- [7024 8-digit](#)

MCA:

- [From Diag Info WWW Link MCA \(2.7MB long load\)](#)
- [888 102 XXX Codes](#)
- [888 103 XXX Codes](#)
- [888 105 XXXX Codes](#)

Machine Type (M/T) - Code Names - Models

[Browse](#)

[Search](#)

[Link to an Austin site](#)



RSINFO/6000



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- [Discontinued systems](#)
- [What is LINPACK ? www.ntlib.no](#)
- [IBM site - pSeries 610 6C1/6E1 Benchmarks](#)
- [Performance Guide in pdf](#)
- [What is SPEC ? - www.specbench.org](#)
- [What is TPC ?- www.tpc.org](#)

Mai 03 2000 by Bruno Croft

Processor Group

[2003 28 Jan CDN Ann letter](#)D5 - 7006 7008 7009 7011 7020 7024 7025-F30/F40
7028-6C1/6E1/6C4/6E4 7043-140/150/240 7247 7248 7249

E5 - 7012 7025-F50/F80/6F0/6F1 7026-H50/6H0/6H1
7030 7039-651 7043-260 7044-270 7317 7596

F5 - 7013 7016 7026-6M1 7038-6M2

G5 - 7015 7051 7017-S7X 7040-671

H5 - 7040-681 7017-S8X

P5 - 9076

Updated:[Mar 2003 - BJ Croft](#)



LOCATION CODES

- [General Location](#)
- [7025-F50](#) | [F80](#)
- [7043-140](#)
- [7043-150](#)
- [7044-170](#)
- [7026-H70](#)
- [7026-H80 6H0 6H1](#)
- [7028-6C1 6E1](#)
- [7028-6C4 6E4](#)
- [7133-D40/T40](#)
- [9076-332MHz Silver](#)
- [9076-SMP Winterhawk](#)

Updated: Oct 2002 by Bruno Croft

How to Identify RS/6000 Model with command 'uname -m'

NOTE: It is no more very useful to use `uname -m` with Non-MCA system. Many different models now returns 4C. If your Multi-Bus system is at least at AIX4.2, I suggest trying `uname -M` instead of `uname -m`

**Example: `uname -M`
IBM, 7025-F50**

XXYYYYYYMMSS	MM = Model	
02	7015-930	64 7015-980/98B
10	7016-730	66 7013-580/58F
	7013-530/7016-730	67 7013-570/770/ 771/R10
14	7013-540	70 7013-590
14	7013-540	9076-SP2 Wide
18	7013-53H	71 7013-58H
1C	7013-550	72 7013-59H/R12
20	7015-930	9076/SP2/wide w/RPQ
2E	7015-950	75 7012-370/375/37T
30	7013-520	9076/SP1/Thin
30	7018-740/741	76 7012-360/365/36T
31	7012-320	77 7012-355
34	7013-52H	7013-55H/55L
35	7012-32H	79 7013-591
37	7012-340	9076-SP2wide 77MHz
38	7012-350	80 7015-990
41	7011-220	81 9076-SP2 thin 120MHz
42	7006-41T/41W	82 7015-R24
43	7008-M20	89 7013-595
46	7011-250	9076-SP2 wide 135MHz
47	7011-230	90 7009-C20
48	7009-C10	91 7006-42x
49	7011-25F	94 7012-397
4C	7248-43P	9076-SP2 thin 160MHz
	7043-240	A0 7013-J30
	7017-S70	A1 7013-J40
	7025-F50	A3 7015-R30
	7026-H50	

4D	7020-40P	A4	7015-R40/R50
57	7012-390		lscfg -vl cpucard0 | grep FRU
	7030-3BT		C4D --> R40
	9076/SP2/thin 66MHz		X4D --> R50
58	7012-380		9076-SP2 high
	7030-3AT	A5	Not valid
59	7012-39H	A6	7012-G30
	7030-3CT	A7	7012-G40
	9076/SP2/thin w/L2	C0	7024-E20
5C	7013-560	C4	7025-F30/F40
63	7015-970/97B		

Updated: 29 MARCH 2000



AIX Questions

- [Paging](#)
- [AIX V3.2 INSTALLP](#)
- [Delete several SSA hdisks and pdisks](#)
- [Rebooting automatically after power failure UPS](#)
- [Mirroring a tty output \(portmir\)](#)
- [32-bit or 64-bit kernel](#)
- [How-to know AIX level](#)
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- [FS and File Size Limits](#)
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Jan 2003 by Bruno Croft

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SCSI HARD DISKS

- [Product Engineering Alternate Site](#)

Disk size: [2.2GB](#) [4.5GB](#) [9GB](#) [18GB](#) [36GB](#) [73GB](#) [146GB](#)

Others

160MB	720MB	Specifications
200MB	857MB	2104 Exp Storage Plus
270MB	1GB	7203 Portable Disk
320MB	1.1GB	7204 External Disk Drive
340MB	1.2GB	9334 UNITS
355MB	1.37GB	7131/7134/7135/7137/7190
360MB	2GB	
400MB	2.16GB	
540MB	2.2GB	
670MB	2.4GB	

WARNING: The following warning applies for all pages of this section !
 RS/6000 models listed in the last line of a specific disk FRU: It means I have found an information that this specific disk FRU was found in this specific model. It is not automatically excluding the other FRUs that don't have this same RS/6000 or pSeries model listed.

There may have several different FRU of the same capacity compatible for the same RS/6000 or pSeries model even if they don't have this model listed.

Last update July 21 2001 by Bruno Croft

SSA HARD DISKS

[1.1GB](#) [2.2GB](#) [4.5GB](#) [9.1GB](#) [18.2GB](#) [36GB](#) [73GB](#)

- [Link to SSA Disks Microcode](#)
- [Link to Dave Adams SSA Disks Page](#)
 - [ESS 2105 Shark](#)
 - [9333 UNITS](#)
 - [7131/7133/7190](#)

Last update Dec 2002 by Bruno Croft

Update March 2004 by Bruno Croft



Direct Bus Attach DISKS (no -SCSI attached)

120MB / 160MB

SIZE		FRU	FFC	Form Factor	Feature Code	Used on models
120MB	DBA	53F3425	957	3.5"	2120 320	
160MB	DBA	00G2603	958	3.5"	2123 320	



RSINFO/6000



TAPE DRIVES

Click [here](#) to see format, length, etc..

Drivers

[Atape & Atltd Web Sites Links](#)

4MM

[2GB DDS|||| Int & 7206-001](#)
[4GB DDS2 Int #6142 & 7206-005](#)
[12GB DDS3 Int #6159 & 7206-110](#)
[20GB DDS4 Int #6158 & 7206-220 - Cadenza-](#)

[2](#)

[36GB DAT72 7206-336](#)
[4GB DDS2 7332-005 Autoloader](#)
[12GB DDS3 7332-110 Autoloader](#)
[20GB DDS4 7332-220 Autoloader](#)
[7336 Tape Library](#)
[24GB DDS2 Hidalgo Autoloader](#)
[HP C1553A #6153/6137](#)

LTO

[3580-L11/H11](#)

VXA-2

[80GB 7206-VX2 - Jesse James](#)

8MM

[2.3GB / 7208-001](#)
[5GB Int #6147 / Ext 7208-011](#)
[7GB 7331-205 Tape Library](#)
[20/40GB Int #6156 / Ext 7208-341](#)
[20GB 7331-305 Tape Library](#)
[60/150GB Mammoth 2 - Int #6134 / Ext 7208-345](#)
[60GB 7334-410](#)

DLT

[7205-440 40GB DLT8000](#)
[7205-311 35GB](#)
[7337-360 40GB](#)
[7337-30X 35GB DLT7000](#)

1/2-Inch 9-track
[9348](#)

QIC

[7207-001 150MB](#)
[7207-011 525MB](#)
[7207-012 1.2GB](#)
[7207-315 13GB](#)

OTHER

[3490 / 3494 / 3570 / 3590](#)
[Ordering Media in Canada](#)

Last updated Feb 2004 by Bruno Croft

CD-ROM internals and external 7210

PCI system FFC 664 682 734 789 804 89C 974 987 2590
MCA systems FFC 723 974 987 89c 734 804 682 664 789

48X 33P3203, 24P3605 IDE Black Bezel FFC 2590 7028 #2633
33P3201, 24P3603 IDE White Bezel FFC 2590
Filesets: devices.isa_sio.PNP0600.rte
 devices.ide.cdrom.*
 devices.pci.ad100501.*

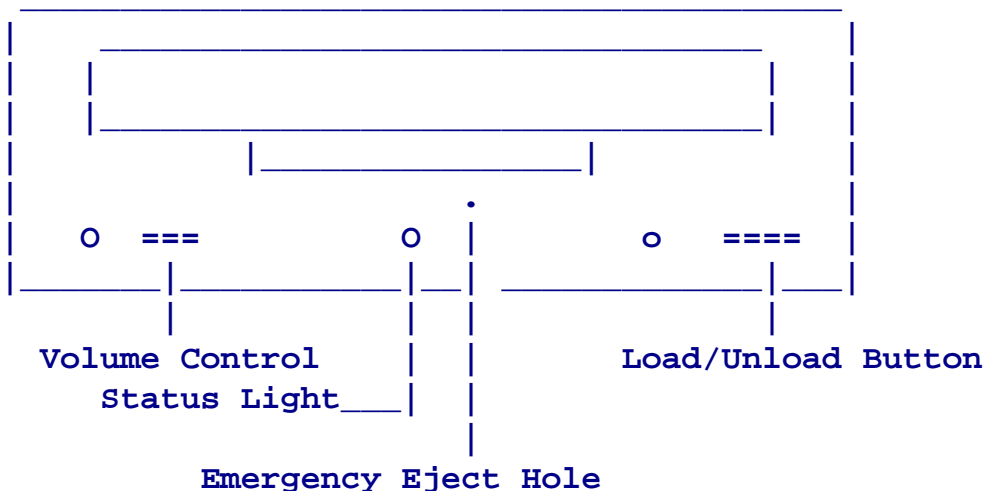
SCSI cdrom uses the same driver as the SCSI disk
 devices.scsi.disk.*

40X 97H7796 - P/N 04N2964 in VPD - 16-bit no FFC !
Order 19P2481 for M/T 7210-005/010/015/020. All other, use 97H7796

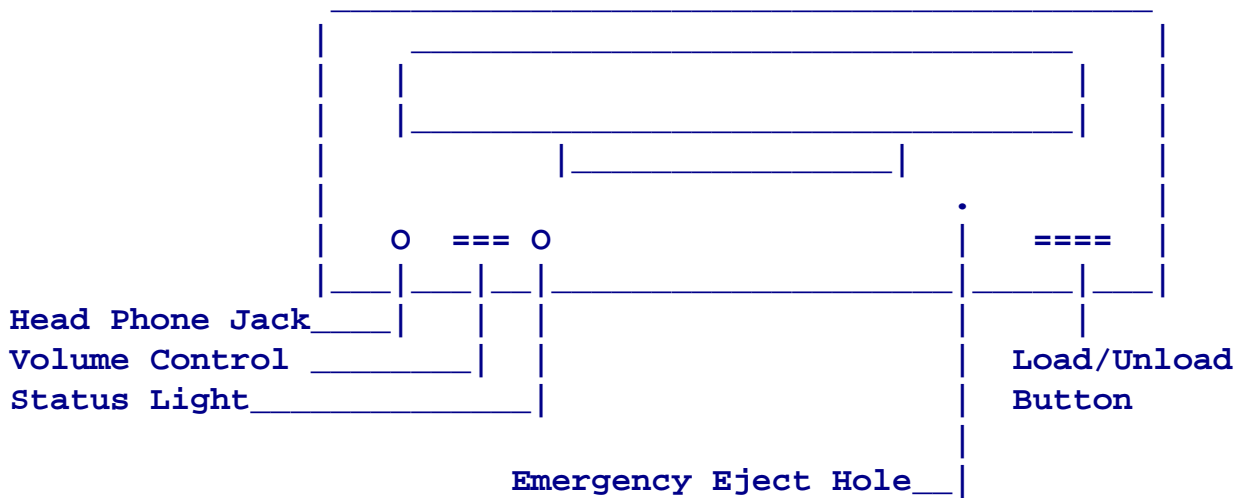
09P2645 auto-docking asm includes cd-rom for 7038-6M2 #2628

32X SCSI-2 8-bit up to 4.8MB/sec no FFC !
Internal only / No 7210 equivalent
FRU: 97H7796 (Part Number 97H7795 in VPD)
 or
 97H7610 (Subs to 97H7796)
USED: #2624 for H50, S70, #2624 for 7013/7015

12/20X SCSI-2 8-bit up to 3MB/sec FFC 682
FRU: 93H8055
USED: 7025-F50 #2619 late models
 #2622/#9619/#9622



8X SCSI 1200MB/s FFC 804
 FRU: 73H2601 (Now subs to the 12X 93H8055)
 USED: Standard in 7043-140/240
 7210-015/ 7025-F50



NOTE: The 8X CD-ROM has a black tray

4X CD-ROM2 600MB/s
 FRU: 73H1513 <- 88G4921 <-88G4898
 USED: 7210-010
 605X, 6070, 7006 (#2604),
 7009-C20 (#2616)
 7012-G30/380/39x, 7013-58H/59x
 7015-R10/R20/R21/R24/R30/990
 7248, 7024-E20, 7025-F30

 7210-015 73H2601 8X
 7210-010 73H1513 4X
 7210-005 11H3914 <- Originally 65G7563 FFC 987
 7210-001 88G3929 FFC 974

7013-J30 2X Tray-Loading with carrier..... 19H0206 89c
 Media Devices Carrier with Converter Board.. 19H0266 89c
 (for the above drive(19H0206)).

TYPE		P/N	FFC
A	7210-001 Originally 53F3422.....	88G3929	974
B	7210-001 Originally 00G1959.....	88G3929	974
	Also used in machines: 7013-520/52H/530/53H/540/550/55L/560/570/591		
	7015-930/950/970/97B/980/98B/990 media drawer		
	7016-730		

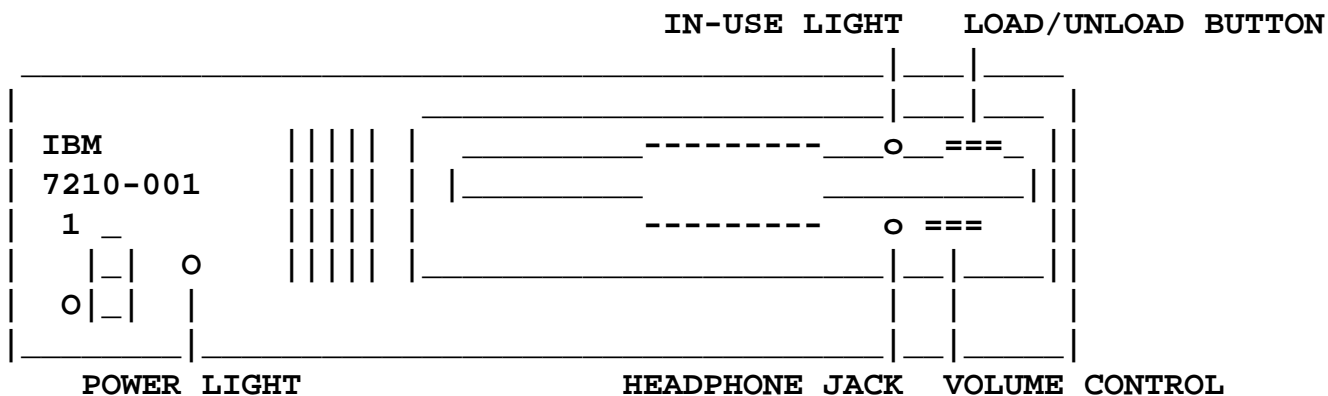
NOTE: There is no more question about type A and B

Others Parts

	P/N
Power Supply 7210-001.....	00G2960
7210-005.....	65G7585
7210-015.....	59H3760
Caddy.....	22F9419
Test Disc Type A.....	53F3088
Type B.....	81F8902
CDROM Kit Type A (Test, Caddy and Cleaner).....	59F3562
CDROM Kit Type B.(Test, Caddy).....	31F4232

CLEANING: Cleans the internal optic lens occasionnaly

7210-001



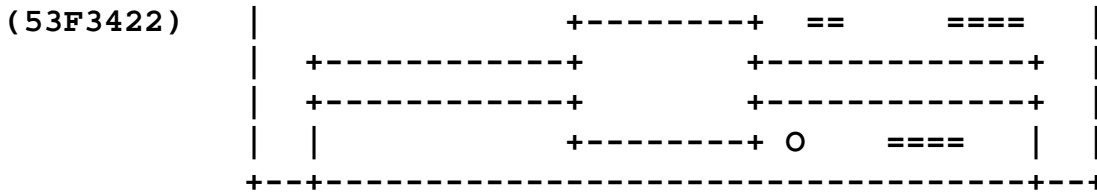
Known problems:

AIX4.3.3 - needs to issue mount command twice before it mounts.

0506-324: mount failed... device is not ready for operation --> IY07969

BEZEL Type-A

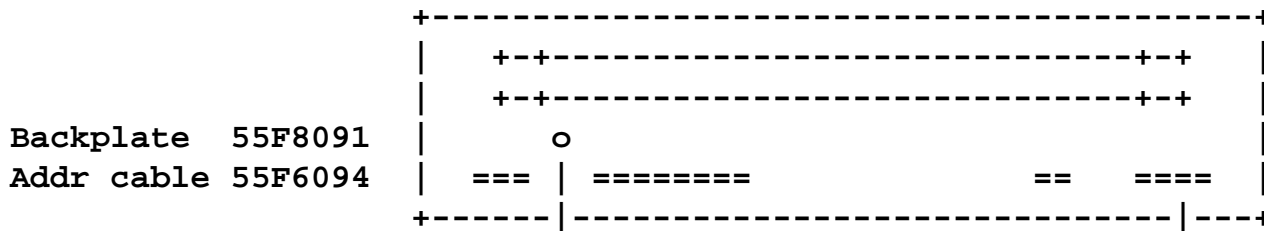
+-----+



53F3422 now sub to 88G3929. For 7210 below serial 30000, order B/M55F9106 which includes a type B backplate assembly and address cable. Both backplate 55F6091 and address cable 55F6094 can be ordered separately.

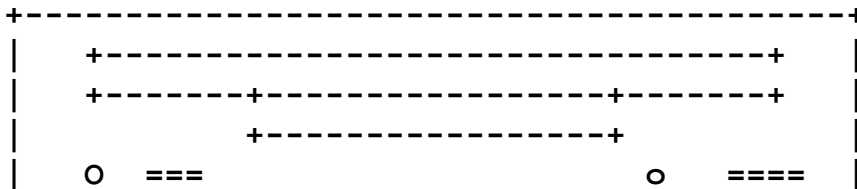
BEZEL Type-B

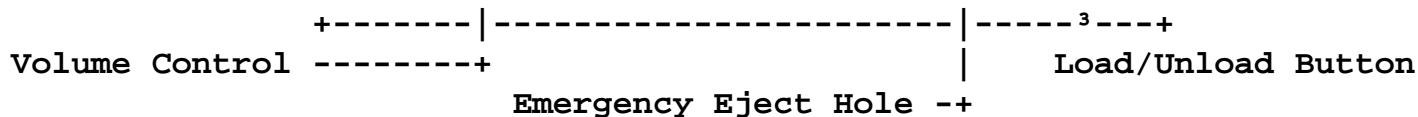
CD-ROM and CD-ROM-2 (88G3929/00G1959)



Emergency Eject Hole CD-ROM-2 Type-B Drives have a white underside on their unload buttons.

BEZEL Type-C





Characteristics

Capacity: Approximately 600MB per disk

Average access: 380 msec Type-A
 330 msec Type-B
 260 msec Type-C

Operation: Random access

Data transfer rate: 150K per second
 300Kbps Type-C

Interface: SCSI(single-ended) asynchronous

Technology: Constant linear velocity (CLV), spiral track

Parameter	Type A		Type B	
	Mode 1	Mode 2	Mode 1	Mode 2
Formatted capacity	540mb or more	615mb or more	540mb or more	615mb or more
Data block size	2048bytes	2336bytes	2048bytes	2336bytes
Blocks per disk	270K	270K	270K	270K
Data transfer rate				
Minimum sustained:	150Kbytes per sec	171Kbytes per sec	150Kbytes per sec	171Kbytes per sec
Minimum burst	1.50Mbytes per sec	1.50Mbytes per second	1.50Mbytes per second	1.50Mbytes per second

Average access	380 msec	380 msec	330 msec	330 msec
Maximum access	700 msec	700 msec	620 msec	620 msec
Average latency	56.6-150 msec	56.6-150 msec	56.6-150 msec	56.6-150 msec
Maximim spin-up	6.0 sec	6.0 sec	6.0 sec	6.0 sec
Spin-up from standby	2 seconds	2 seconds	2 seconds	2 seconds

7210-010 Characteristics

Data transfer rate	600KB/sec - twice the speed of 7210-005
Multiple media types	Accepts either 120 (standard) or 80mm (small) disks
Access Time	200 ms typical
Speed	1X 150KB/sec, 2X 300KB/sec, 4X 600KB/sec
Attachment	SE SCSI Type 4-1, 4-4, 4-7,
File format	ISO 9660/High Sierra File format
Operating System	AIX3.2.5 Enhancement 5, 3250-05-00 and AIX 4.1.3
Application Support	Multi-session, Kodak Photo CD-ROM capable

Updated April 2003

**WARNING: This page applies to AIX pSeries and RS/6000 only.
Not to other platform !!**

IBM does not sell or support the hardware that is used to create a CD.

Some of the hardware that was tested includes:

[Yamaha](#) CRW4416SX

[Ricoh](#) MP6201SE 6XR-2X

[Mashita/Panasonic](#) CW-7502-B

The above source of information can be found in:

[AIX 4.3.3 Installation Guide](#)

[AIX 5.1 Installation Guide](#)

Updated: Nov 2002 by Bruno Croft

4.7GB SCSI-2 DVD RAM Drive #2623 #2627 - FFC 66E - Code Nez Percé

- [Ann letters A01-0470 | A01-0755](#)
- [Install Guide](#)

Backup/restore and boot capabilities are provided in AIX 4330-08 ML, AIX 5.1 or later.

	FRU	FC			
DVD-RAM Drive:	04N5967	#2623 Black	7017-S80	S85	
	(04N5272)		7025-6F1	F80	
			7026-6H1	H80	M80
			7043-150	270	
			7044-170	270	
			7046-B50		
	04N5968	#2627 White	7025-6F1	F80	
			7043-150	270	
			7044-170	270	

The following parts can be ordered from the stockroom:

	FRU
Disc Cleaner.....	19P0489
CD-ROM Test disc.....	81F8902
4.7GB DVD Test disc.....	19P2410

The following P/N can be purchased at 1-800-IBM-CALL:

They are not FRU and cannot be ordered from parts center except 19P0484.

Data disc:	P/N
2.6GB single-sided Type II	19P0488
4.7GB single-sided Type II	18P7250, 19P0484 - also a FRU
	19P0862 (5-pack of 19P0484)
	09P5407 HMC DVD with cartridge
5.2GB double-sided Type I	19P0485
9.4GB double-sided Type I	19P0490

Type I disc cannot be removed from cartridge

Type II disc can be removed from cartridge

When removed from cartridge, Type II disc can only be read not written.

Compatibility: 2.6GB, 4.7GB, 5.2GB, 9.4GB.

USING DVD-RAM as a file system (like directcd)

To use a DVD-RAM for writing and reading like a file system,
use the following commands. This will work only at AIX 5.2 and above.

- 1) Put DVD-RAM into drive
- 2) `udfcreate -d /dev/cd0`
- 3) `mount -V udfs /dev/cd0 /mnt`
If you get error, ensure /etc/vfs contains this line:
`udfs 34 /sbin/helpers/udfmnthelp`
- 4) `mount -V udfs /dev/cd0 /mnt`
... then use this as a regular filesystem.

Created: July 31 2001 by BJ Croft

Last Updated: Oct 2004

DVD-ROM Drives

#2640 8X/24X Slimline IDE 00P4775
(Used in 9114-275, 7029-6C3/6E3 and others)

#2635 16X/48X Zapata SCSI Auto-docking: 53P2799, 00P5166, 80P2293
(16-bit LVD Used in 7040, 7044 and possibly other models)

More info to come

Created: May 2003 BJ Croft

Updated: April 2004 Jef Goupil and B Croft

IBM SAN Fibre Channel Switch

[SAN Technical Support](#)

Documentation:

[2109-F16 Installation and Service Guide](#)

[2109-F16 User's Guide](#)

[2109-S08 Installation and Service Guide](#)

[2109-S08 User's Guide](#)

[2109-S16 Installation and Service Guide](#)

[2109-S16 User's Guide](#)

Firmware Download:

[2109-S08/S16](#)

[2109-F16](#)



Optical Drives

- [7209-001 1X 595MB](#)
- [7209-002 2X 1.19GB](#)
- [7209-003 4X 2.6GB](#)
- [3995 Parts](#)

Oct 31 2001 BJ Croft

Graphics Displays

- [Other Link](#)
- [Chicago link](#)

Cabling: There is no cabling information in this page. For cabling, refer to CABLING and then Graphics (Local or Remote).

DESCRIPTION	P/N						
Display Unit for 7008 North Hemisphere	43G0059						
Display Unit for 7008 South Hemisphere	43G0069						
POWERdisplay 17	No FRU. If unable to repair, replace with appropriate monitor depending of the graphics card. 09G3800 CRT						
POWERdisplay20 #3608/ 2609	Options: 1- First option is to repair the monitor on-site. 2) If it is not repairable, then order 35H0541 or 09G3821. 3) If it is not possible to accomplish option 1 and 2, order 61H0233 P202 as a replacement. This requires to change the cable <table> <thead> <tr> <th>Old cable</th> <th>New Cable</th> </tr> </thead> <tbody> <tr> <td>58F2901 15-pin to BNC</td> <td>96G2688 15-pin to 13W3</td> </tr> <tr> <td>09G3539 13W3 to BNC</td> <td>96G2689 13W3 to 13W</td> </tr> </tbody> </table> If old cable 58F2901 then new cable 96G2688 #4237	Old cable	New Cable	58F2901 15-pin to BNC	96G2688 15-pin to 13W3	09G3539 13W3 to BNC	96G2689 13W3 to 13W
Old cable	New Cable						
58F2901 15-pin to BNC	96G2688 15-pin to 13W3						
09G3539 13W3 to BNC	96G2689 13W3 to 13W						

G52 UV-NH Colour Monitor	6546-00N	60H9053
G52 UV-NH S/Gray Colour Monitor	6546-40N	60H9150

P50 1280x1024 Non-interlace 60/75/85 Hz

	FRU	P/N
P50 (15-inch 6553-503)	96G2698	
6553-523	96G2700 <--	96G2132

P70 (17-inch 6554-603)	96G2695	1280x1024 Non-interlace 75/77Hz
(17-inch 6554-673)	96G3028 (NEW)	

Northern Hemisphere

P72 6556 03N White 21L4572, 61H0213 <-- 61H0400
P72 6556 43N Black 21L4573, 61H0214 <-- 61H0403

P76 17-inch 6550-23N 61H3608
0,24 6550-23S 61H3612
6550-33N 61H3609
6550-63N 61H3610 Black
6550-63S 61H3613
6550-73N 61H3611

P77 22P6371 White
22P6372 Black

Northern Hemisphere

P92 6557 03N pearl white 61H0412
P92 6557 43N stealth grey 61H0415

P200 (20-inch 6555-703) 96G2701, 1600x1280 Non-interlace 60/66H
(96G2167)
(20-inch 6555-773) 96G3048

P201 (20-inch 6555-803) 96G2183 1600x1200 Non-interlace Max 85Hz

Northern Hemisphere

	FRU	BOGUS
P202 6558-03N pearl white	61H0233 <--	61H0424
P202 6558-43N stealth grey	61H0234 <--	61H0427 #3626

P260 Flat Screen (Sony)
6552-23N US JPN 04N7167 White
EMEA 04N7156
63N US JPN 04N7168 Black
EMEA 04N7160

Cables:

White DVI to DVI..... 04N7528
Black DVI to DVI..... 04N7529
Converter(dongle) DVI to 15pin 04N7532

New Cable that require NO converter (dongle):

White DVI to 15pin..... 22P4542
Black DVI to 15pin..... 22P4543

P275 6652 22P6429 Black
22P6428 White

9521 21-inch 96G3040

Screens 2/14 to 9/14 : Display Support for IBM's Graphics Adapters

Screens 10/14 : Graphics Options for POWERstations

Screens 11/14 to 14/14 : Graphics Hardware Feature Support Table

6736-HB0 (L200P 20.1-inch Monitor ThinkVision)

31P9263 L200P MONITOR(S/BLACK)
31P9266 L200P VIDEO CABLE-DVI-DIG
31P7515, 31P9265 L200P VIDEO CABLE(ANALOG)
31P9264 MONITOR STAND(S/BLACK)

6735-70N (C220P 21-inch TFT Flat Panel Monitor)

73P2311 Black Monitor
73P2316 Pedestal Black

6735-60N (C220P 21-inch TFT Flat Panel Monitor)

73P2310 Black Monitor
73P2316 Pedestal Black

6735-20N (C220P 21-inch TFT Flat Panel Monitor)

73P2314 White Monitor
73P2317 Swivel White

Displays	GXT110P (15D)	GXT250P, GXT255P (15D/DDC)	GXT500P, GXT550P (13W3/DDC)	GXT800P	7250 ATT (13W3)
-----	-----	-----	-----	-----	-----
P50	Display	Display	52G3282	Display	NS
P70	96G2156	96G2156	96G2157	96G2156	96G2689
P200	96G2156	96G2156	96G2157	96G2156	96G2689
P201	96G1712	96G1712	60H7742	96G1712	96G2689
6091-19i	NS	39H8682	09G3541	39H8682	88G4483
POWERdisplay 17	58F2901	39H8682	09G3541	39H8682	88G4483
POWERdisplay 20	58F2901	39H8682	09G3541	39H8682	88G4483
9516-A03	58F2901	39H8682	09G3539	58F2901	09G3539

NS = Not Supported - This display/adaptor combination is not supported

* - Order under machine type 7250

	Mono	Color		
Display Type Model	8508	1091-051 POWERdisplay 16S	6091-016 POWERdisplay 16	
Diagonal Resolution	19" 1280x1024	16" 1280x1024	16" 1024x768 ³ 1280x1024	
Refresh (Hz)	67	72	75 ³	60 ³ 77
Graphics Adapter Feature	=====	=====	=====	=====
Grayscale Graph. 2760 Display Adapter	x		³	³
Color Graphics 2770 Display Adapter			³ x ³	³
POWER Gt1 4208	x	x	x ³	x ³

ISO 9241 Part 3 Compliant Refresh Modes

	Mono	Color		
Display Type Model	8508	1091-051 POWERdisplay 16S	6091-016 POWERdisplay 16	
Diagonal Resolution	19" 1280x1024	16" 1280x1024	1024x768	16" 1280x1024
Refresh (Hz)	67	72	75	60 | 77
Graphics Adapter Feature	=====	=====	=====	=====
POWER Gt1x 4207	x	x	x	x | x
POWER GXT100 2766				| |
POWER GXT150 2767				| |
POWER GT3i 2768				| x | x

ISO 9241 Part 3 Compliant Refresh Modes

	Mono	Color	
Display Type	8508	1091-051	6091-016

Model		POWERdisplay 16S	POWERdisplay 16		
Diagonal Resolution	19" 1280x1024	16" 1280x1024	16" 1024x768 | 1280x1024		
Refresh (Hz)	67	72	75	60	77
Graphics Adapter Feature	=====	=====	=====	=====	=====
POWER Gt4e 2776				x	x
POWER Gt4 2795,2796				x	x
POWER Gt4i 2713					
POWER Gt4x 2790,2791					
POWER Gt4xi 2711,2712					

ISO 9241 Part 3 Compliant Refresh Modes

	Mono	Color			
Display Type Model	8508	1091-051 ** POWERdisplay 16S		6091-016 ** POWERdisplay 16	
Diagonal Resolution	19" 1280x1024	16" 1280x1024		16" 1024x768 ô 1280x1024	
Refresh (Hz)	67	72		75	60 | 77
Graphics Adapter Feature	=====	=====	=====	=====	=====
7235 POWER GTO Mod.01i Mod.02i					x | x
5086 Graphics Processor Mod.01i					x | x

*** POWERdisplays must be ordered as a POWERstation features for GTO and 5086
ISO 9241 Part 3 Compliant Refresh Modes

	Color						
Display Type	POWERdisplay 17		6091-019i POWERdisplay 19			6091-023	
Diagonal Resolution	1024 | 17"	1280x1024	19" 1280x1024			23" 1280x1024	
Refresh (Hz)	75 | 60	72 | 77	60		77		60
Graphics Adapter Feature	=====	=====	=====	=====	=====	=====	=====

Grayscale Graph. Display Adapter	2760							
Color Graphics Display Adapter	2770						x	x
POWER Gt1	4208	x	x	x		x		x

ISO 9241 Part 3 Compliant Refresh Modes

Display Type Model	Color							
	POWERdisplay 17				6091-019i POWERdisplay 19		6091-023	
Diagonal Resolution	1024 ³ x768 ³	17"	1280x1024		19" 1280x1024		23" 1280x1024	
Refresh (Hz)	75	60	72	77	60	77	60	
Graphics Adapter Feature	=====							
POWER Gt1x	4207	x	x	x	x	x	x	x
POWER GXT100	2766	x						
POWER GXT150	2767	x	x	x	x	x	x	x
POWER Gt3i	2768		x		x	x	x	x

ISO 9241 Part 3 Compliant Refresh Modes

Display Type Model	Color							
	POWERdisplay 17				6091-019i POWERdisplay 19		6091-023	
Diagonal Resolution	1024 x768	17"	1280x1024		19" 1280x1024		23" 1280x1024	
Refresh (Hz)	75	60	72	77	60	77	60	
Graphics Adapter Feature	=====							
POWER Gt4e	2776	x		x	x	x	x	x
POWER Gt4	2795,2796	x		x	x	x	x	x
POWER Gt4i	2713							
POWER Gt4x	2790,2791							
POWER Gt4xi	2711,2712							

ISO 9241 Part 3 Compliant Refresh Modes

Display Type Model	Color						
	POWERdisplay 17 **				6091-019i ** POWERdisplay 19		6091-023
Diagonal Resolution	1024	17"	1280x1024		19" 1280x1024		23" 1280x1024
Refresh (Hz)	75	60	72	77	60	77	60
Graphics Adapter Feature	====	====	====	====	=====	=====	=====
7235 POWER GTO Mod.01i Mod.02i		x		x	x	x	x
5086 Graphics Processor* Mod.01i						x	x

* also supports 1024x1024 at 60Hz onthe 6091-19i

** POWERdisplays must be ordered as a POWERstation features for GTO and 5086 ISO 9241 Part 3 Compliant Refresh Modes

Graphics Options for RS/6000	POWER Gt1	POWER Gt1x	POWER Gt3i	POWER GXT100	POWER GXT150	POWER Gt4e	POWER Gt4i	POWER Gt4xi	POWER Gt4xi	POWER GTO Mod
							24-bit	8-bit	24-bit	01i,02i
M20	STD					NA				
22W	STD	OPT		NA		OPT		NA		OPT
23W,23T	NA	STD	NR	NA		OPT		NA		OPT
25W,25T		NA	NR	ST 25W ST 25T		OPT		NA		OPT
360,370		NA	OPT	NA				OPT		
355,365,375		NA	STD	NA				OPT		
36T,37T			NA			STD		OPT		
5xx		NA	OPT	NA				OPT		

NR not recommended

Adapter	COLOR GR. 2D	COLOR GR. 3D	POWER Gt1	POWER Gt1x	POWER Gt3i	POWER GXT100
---------	--------------	--------------	-----------	------------	------------	--------------

Feature Cod	2770	2780 2781	4208	4207	2768	2766
Class	2D	3D	2D			
Slot req'd	1		0		1	
Max. Adapt.	2		1		2	1
Resolution	1280x1024		1024x768 1280x1024	1024x768 1152x900 1280x1024	1280x1024	1024x768
ISO Support	No		Yes			
Hardware Colors	1					

Adapter	COLOR GR. 2D	COLOR GR. 3D	POWER Gt1	POWER Gt1x	POWER Gt3i	POWER GXT100
Feature Cod	2770	2780 2781	4208	4207	2768	2766
Frame Buffer	Single 8-bit	Single 8 / 24bit	Single 1/4/8-bit	Single 8-bit		
Palette			16.7 Million			
Concurrent Colors	256	256 (8-b) 16.7 M (24-bit)	2(1-bit)/ 16(4bit)/ 256(8bit)	256		
Z-Buffer	No	Opt	No			
Overlay pl.	0	4	0			
Dithering	No	Yes	No			

Adapter	POWER GXT150	POWER Gt4e	POWER Gt4i	POWER Gt4xi	POWER Gt4xi	POWER GTO
Feature Cod	2767	2776	2713	2711	2712	Mod. 01i & 02i
Class	2D	3D				

Slot req'd	0	1	2	1
Max. Adapt.	1	2	1	
Resolution	1024x768 1152x900 1280x1024	1280 x 1024		
ISO support	YES			
Hardware Colors	2	5		

Adapter	POWER GXT150	POWER Gt4e	POWER Gt4i	POWER Gt4xi	POWER Gt4xi	POWER GTO		
Feature Cod	2767	2776	2713	2711	2712	01i	02i	
Frame Buffer	Single 8-bit	Double 8-bit	Double 24-bit	Double 8-bit	Double 24-bit	Double 8-bit	Double 24-bit	
Palette	16.7 Million							
Concurrent Colors	256		256(8bit) 16M(24-b)	256	16.7M	256	16.7M	
Z-Buffer	No	24-bit						
Overlay pl.	0	2					4	
Dithering	No	Yes					No	

Adapter	Gt1	Gt1b	Gt1x	Colo	Gray	Gt3	Gt4e	Gt4	Gt4x	3D8	3D24
Type				1-1	1-2	1-6	1-8	1-5	1-5	1-3	1-3
FC#	4208	2804	9280	2770	2760	2777	2768	2790	2791	2780	2781
6091-16/19/23	WW	WW	AB	CC		CC	CC	CC	CC	CC	CC
6314 6317 6319 8508 8517	Cable attached to Display										
1091-051	AE	AE	AD								

Cables-	AB= PN09G3539	AE= 15pin 5BNC	PN09G3588
	AD= PN09G3589	CC= 3Coax 3BNC	PN58F2903
		WW= 15pin 5BNC	PN58F2902

Last Update: May 2004 by Jef Goupil

HMC Hardware Parts

19K1567 30GB disk driveIDE: Hard Drive
19K1568 40GB disk driveIDE: Hard Drive
19K1537 DVD-RAM Drive, white
23P3615 DVD-RAM Drive, black
37L4525 IDE: Hard Drive Cable
24P0440 USB Keyboard Black

44P0206 50-foot 9-9 pin serial cable, connects HMC to system
93H6541 8 port async adapter
07L9822 Fanout cable
6298964 Wrap plug
31L7196 9-25 pin serial cable connects from fanout
cable to system HMC 1
93H6545 128 port async adapter
43G0928 wrap plug
43G0926 Terminator
19K4885 1 10/100 Ethernet Adapter
6339098 Token Ring Adapter Cable (9 Pin D-Shell to STP)
34L5009 PCI: 16/4 Token Ring Mngt
25P4058 PCI: nVidia Vanta (16MB)
33F8354 Battery
00N7685 Power Supply
00N7687 Power Supply (Japan)
00N7689 Power Supply (China)
24P6883 Power Supply
24P6885 Power Supply (China)
09K9982 System Board (D5U)
25P5090 System Board (LPU)
32P4004 1 Fan Sink
06P2458 Fan Sink (6578-FHU)
19K7539 Processor, 866Mhz Pentium 3 (6578 D5U)
48P7596 Processor, 933Mhz Pentium 3 (6578-FHU)
33L3074 Memory 128MB SDRAM, NP)
33L3076 Memory (256MB SDRAM, NP) (6578-D5U)
10K0049 Memory (512MB DIMM, EDO ECC)
75H9550 Diskette Drive
75H9552 Diskette Drive (Japan)
19K1537 IDE: DVD RAM Drive (Hitachi- white)
23P3615 IDE: DVD RAM Drive (Panasonic - black)
21L4322 COM Port to Modem Async Cable

01K4909 Fan/Speaker/Power Switch Assy
21G4251 PC Doctor Diagnostic Diskette
09N5532 Mouse, Three-Button USB
12J4546 Mouse, Three-Button USB (ScrollPoint)
28L1865 Mouse, Three-Button USB (ScrollPoint-white)
28L1868 Mouse, Three-Button USB (ScrollPoint-black)
93F2364 US Power Cord

Created Jan 2003 by Bruno Croft

Keyboards & Mouse

FFC 921 922 923

Use the second column for models:

6015, 6050, 6051, 6070, 7020, 7024, 7025, 7026, 7043 and 7248.

	ID	FC	MCA	RISC	Multiple Bus Systems
Arabic	238			1396079	8131596
		#6630			93H8125 Quiet White
Belgium-French_____	120	#6011	1394543		1391526
		#6609			08L0904 Quiet White
		#8709			07L9452 Quiet Black
Belgium-Dutch		#6011	1394543		1391414
Belgium/UK-Flemish___	120	#6610			08L0905, Quiet White
					93H8127.
		#8710			07L9453 Quiet Black
Brazilian Portuguese	275			88G3936	64F7707
					93H8124 Quiet White
		#8707			07L9450 Quiet Black
Bulgarian_____	442			???????	1399583
					93H8128 Quiet White
					07L9454 Quiet Black
Canadian French_____		#6012	1394541		82G3280,
					82G3279.
					93H8121 058 Quiet White
					93H8122 445 Quiet White
		#8708			07L9447 058 Quiet Black
Chinese_____	467			???????	82G2383,
					1393990.
		#6634			93H8155 Quiet White
Czechoslovakian_____	243				1399570
					93H8129 Quiet White
Danish_____	159	#6013	1394544		1391407
		#6612			08L0906 Quiet White
		#8712			07L9456 Quiet Black
Dutch/Netherlands_____	143	#6034	43G2778		1391511
					93H8131 Quiet White
		#8717			07L9467 Quiet Black
Finnish/Swedish_____	#6014	1394545			1391411
French_____	#6015	1394546			1391402
	#6601				08L0908 189 Quiet White
	#8701				07L9458 Quiet Black

German.....	#6016	1394542		
German/Austrian.....			1391403	
	#6603		08L0909	129 Quiet White
	#8703		07L9459	129 Quiet Black
Greek.....		1396078	1399046	
	#6619		93H8134	319 Quiet White
	#8719		07L9460	Quiet Black
Hungarian_____			1399581	
	#8721		07L9462	
Hebrew_____		1396080	1391408	
	#6620		93H8135	212 Quiet White
	#8720		07L9461	Quiet Black
Icelandic_____197	#6024	1395968		
	#8722		93H8137	Quiet White
			07L9463	Quiet Black
Italian_____142	#6017	1394547	1393395	
	#6602		08L0911	Quiet White
	#8702		07L9464	Quiet Black
Japan Kanji_____	#6030	30F9388		
Japanese_____194			66G0507	
	#6606		93H8154	Quiet White
	#6706		07L9480	Quiet Black
Korean_____413		02G7352	52G9658	
	#6633		93H8156	Quiet White
L Americ Spanish		| 82G3292		
	#6629		93H8123	171 Quiet White
Latvia_____			93H8152	234 Quiet White
Norwegian_____155	#6019	1394548	1391409	
	#6616		08L0912	Quiet White
	#8716		07L9465	Quiet Black
Polish.....214			1399580	
	#8723		93H8140	Quiet White
			07L9466	Quiet Black
Portuguese.....163	#6020	1394549	1391410	
	#8718		93H8141	Quiet White
			07L9467	Quiet Black
Romainian.....		???????	1399582	
			93H8142	446 Quiet White
Russian.....		???????	1399579	
	#6638		93H8143	443 Quiet
Serbian.....			93H8144	118 Quiet White
Slovak.....		???????	1399571	
			93H8145	245 Quiet White
Spanish.....	#6021	1394550	1391405	
	#6605		08L0914	172 Quiet White
	#8705		07L9472	172 Quiet Black
Swedish/Finnish.....		???????	1391411	

	#6611		08L0915, 153 Quiet White 93H8147.
	#8711		07L9473 Quiet Black
Swiss German/French..	#6022 1394551		1391412
	#6614		08L0916, 150 Quiet White 93H8148.
	#8714		07L9474 Quiet Black
Taiwanese.....	02G7353		
Thailand.....			93H8157 191 Quiet White
Turkish.ID179.....	#6025 1396077		1393286
	#8727		93H8149 179 Quiet White
Turkish.ID440_____	#6035 43G2775		07L9475 Quiet Black
			8125409
			93H8150 440 Quiet White
			07L9476 Quiet Black
UK English_____	#6023 1395985		
	#6604		93H8151 166 Quiet White
	#8704		07L9477 166 Quiet Black
UK English CSA 166	1395984		1391406
US English.....	#6010 51G8572,		42H1296, 82G3278.
	#6600		93H8120 White (another one valid)
US English.....			07L9446 Black (another one valid)
	(1394540)		37L0888 Quiet Touch Space Saver
	ISO9995 #6640		93H8153 #103P Quiet White
	#8700		07L9446 #103P Quiet Black
US English OEM			06H3048
US Soft Touch	8184692		

Keyboard	93H8132		93H8132
must used			
KYB/SPK CB with speaker	93H8878		93H8878

Keyboard Cable	1394609		

3-Button Mouse			Machine types	
FC	P/N	Descript		
#6041	76H5084	Current	7006, 7009, 7010, 7011	
#	11H4878	Previous 1	7006, 7009, 7010, 7011	
	43G2444,	Previous 2	7012, 7013, 7024, 7025	
	51G9652,	Previous 3	7030, 7248	

11F8895 Previous 4	
93H9113, White 8185429.	7043-140/240
08L0362 Black	7043-150, 7044
#5429 Current 8185429	6015, 7020:

Keyboard and Mouse Adapter for 7013-J30/J40..... 40H7496

- For 3153 keyboard, see MISC / 3153 or click [here](#)

Updated Jun 13 2002 by Bruno Croft

7318 Part Numbers



RSINFO/6000



FEATURE	DESCRIPTION	P/N
N/A	MODEL P10 FRU	P/N65G2384
N/A	MODEL S20 FRU	P/N65G2386
7909	CABLE, DAISY CHAIN INCLUDES MALE AND FEMALE DB-9 WRAP PLUGS	P/N65G2419
7900	BRACKETS, WALL MOUNT	P/N65G2408
7901	CABLE, RJ-45 TO RJ-45, 10 FEET	P/N65G2373
7902	CABLE, EXTENDED RS-232D MODEM CONTROL-10FT.	P/N65G2374
7903	ADAPTER, MODEM	P/N65G2375
7904	ADAPTER, TERMINAL	P/N65G2376
7905	ADAPTER, PC, DB-9	P/N65G2377
7906	CABLE, MACINTOSH, DIN-8 10 FEET	P/N65G2378
7907	CABLE, RJ-45 TO MMJ, 10 FEET	P/N65G2379
7908	BRACKETS, RACK MOUNT	P/N65G2371
N/A	WRAP PLUG, AUI ETHERNET	P/N71F1167
N/A	WRAP PLUG, RJ-45 ETHERNET	P/N00G2380

OPERATOR PANELS (FFC 165)

MICROCHANNEL SYSTEMS

M/T	P/N	Description

7006	31F4287	Operator panel display
7008	43G0056	Operator panel assembly
7009	65G7994	
7011	31F4287	Operator panel display
7012/320/32E/32H	00G2121	
7012/340/34H/350/ 355/360/365/36T/ 370/375/37T/380/ 390/39H/397	00G2230	
7012/G30/G40	40H2671	Operator panel Base Unit
7012/G30/G40	11H3904	Operator panel Expansion Unit
7013/520/52H/530/ 540/53H/550/560	00G2126	Operator panel assembly
7013/55L	52G7453	
7013/570/580/58H/ 590/59H/591/595	94F3592	
7013/J30/J40/J50	19H0205	Operator panel
7015/930/950	00G2130	Operator panel, CPU drawer
	81F8234	Operator panel, async drawer
7015/970/980/97B /98B/990	43G1803	Operator panel, CPU enclosure
	43G1803	Operator panel, CPU media
7015/R10/R20/R21	52G1465	enclosure
7015/R24	43G1803	Operator panel
7015/R30/R40/R50	19H0214	Operator panel with keylock
7016	00G2126	Operator panel without
7018/740	00G1968	keylock
7018/741	00G2193	
7018/770	52G1446	
7018/771	52G1485	

7030

00G2230

Operator panel display

MULTI-BUS SYSTEMS

7017 S70	91H1381
S7A	07L9514 Drawer Indicator Panel
S80	91H1381 Op Panel
	21H6996 Cable
7025/F30	93H5911<--73H0895
7025/F40	07L7600<--93H5269
7025/F50	93H2922
7026/H10	93H7439
/H50	93H2922 <- 73H4795
/H70	41L6006
7043/140/150/240	73H3766
/260	07L7234
7046-B50	07L9101
7317/F3L	73H0895

Updated: MAY 26 2000 - Bruno Croft

Keylocks (FFC 168)

7006	88G2671	Keylock assembly, locking
7009	65G7994	Keylock, Operator panel assembly
7011	00G2360	Keylock w/keys
7012-320/32H	40F9928	Keylock, locking
	71F1354	Keylock, non-locking
7012 below 380	81F9038	Keylock, locking 6-pin
	11H3631	Keylock, non-locking - connector 8-pin
(00G1924)		
7012-380/390	88G3961	Keylock, locking, 40F9928
	11H3631	Keylock, non-locking - connector 8-pin
(00G1924)		
7012-G30	52G0252	Keylock assembly, locking
7013 below 570	31F4215	Keylock
except 55L		
7013-55L/570/ 580/58H/590/59H	51G9876	Keylock
7013-J30	19H0214	Keylock, Operator panel assembly
7015-970/980/990	31G9609	Keylock, CPU drawer
7015-R10/R20/R24	52G1485	Keylock, operator panel assembly
7015-R30	11H3243	Keylock, Operator panel assembly
7016	31F4215	Keylock
7018	00G2192	Keylock assembly
7020-40P	8185418	
7030/3AT/3BT	88G3961	Keylock assembly, locking
	00G1924	Keylock assembly, nonlocking
7248-43P	06H1776	

LOST KEY: (7013 tested)
 RED, GREEN and BLACK wires on keylock
 SERVICE: RED and GREEN together
 SECURE: RED and BLACK together

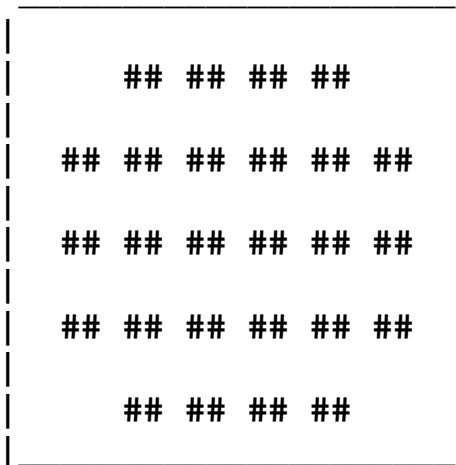
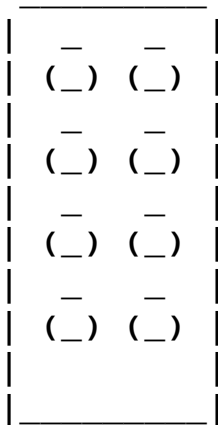
Updated Jan22 2001 by Bruno Croft

Dials, LPFK and other Hand Devices

FRU

Dials 6094-010 39F8227 beige
08L0242 black

LPFK 6094-020 PN39F8226



Cable PN6247480 GIO Adap

Cable PN59F3740 Serial Port

Cable PN39F8228 Dials/LPFK

Cable PN39F8302 5081/6091

Cable PN07G0448 Security ROMBOX

Cable PN74F3135 RS/6000 Attachment Cable

Tranfo for 6093-011/012 6094-30

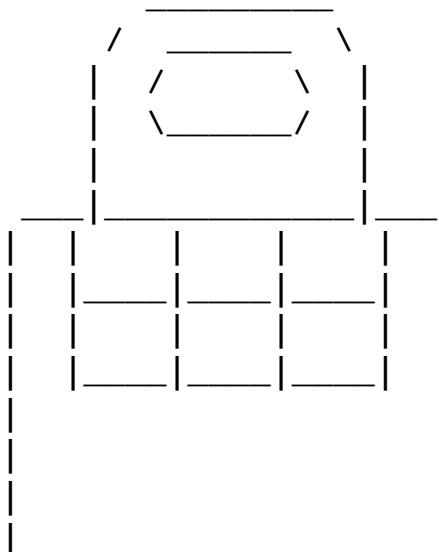
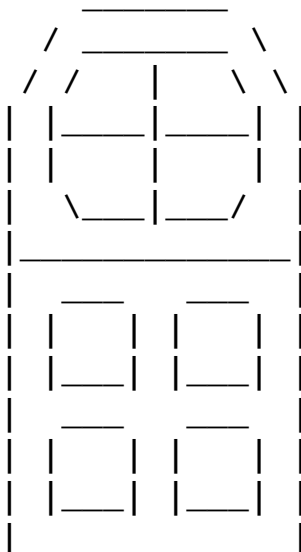
120V Power Supply.. P/N6247468

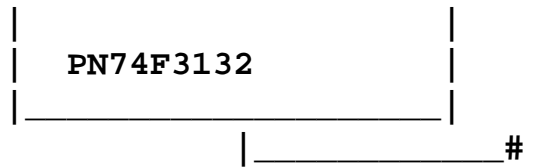
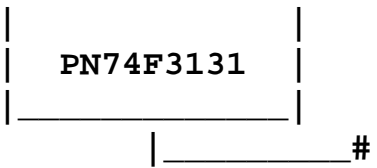
240V Power Supply.. P/N6247469

100V Power Supply.. P/N74F3089

Tablet Puck, 4-buttons (6093-011)

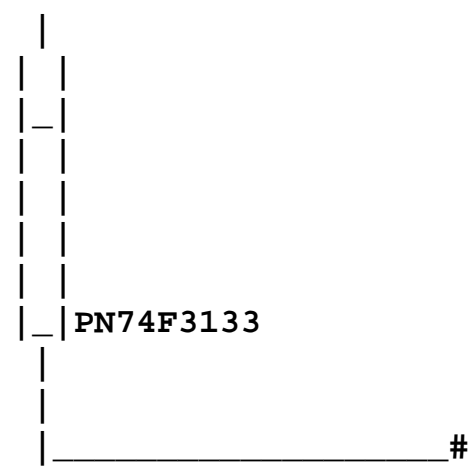
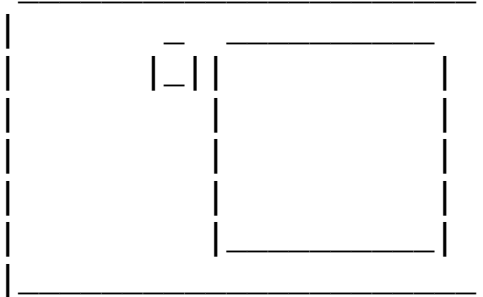
Tablet Puck, 6-buttons (6093-012)





Tablet

2-button Stylus for 6093 Tablet



Small 6093-011 PN74F3130
 Large 6093-012 PN74F3140
 Xstation Cable PN74F3357

Tablet Cursor mod 2x 6247455

6093-021 Tablet 93H7714
 four button cursor 93H7716
 Stylus 93H7719
 Serial Cable 93H7722

5083 TABLET PN:

TABLET MODEL	TABLET P/N	CURSOR P/N	STYLUS P/N
5083-001	6248426	6248428	6248427
5083-002	6248433	"	"
5083-011	6248514	6248523	6248522
5083-11A	6248516	"	"
5083-012	6248513	"	"
5083-12A	6248515	"	"
5083-021	6247450	6247455	6247454
5083-022	6247452	"	"

CABLES:

MODEL 11A/12A	:	6248519	5080	ATTACHMENT
MODEL 021/022	:	6247488	5085	ATTACHMENT
		6247457	5086	"
		6247471	5086	PERIPHERAL ADAPT CABLE ("D" TO ROUND)

RAN Box

INFORMATION:

[RAN box](#) is child device of 128-port adapter. Each RAN box has 16-port and there may have up to 8 RANs on one 128-port adapter for a total of 128 ports.

Don't confuse the RAN with the [16-port box](#) type on the MCA 64-port adapter. This type is rather known as CONCENTRATOR not RAN. This box also has 16-port (8 ports each side, not 16-port on the same side as the 128-port type.) Each 16-port CONCENTRATOR is attached directly on a dedicated port on one of the 4 port of the 64-port adapter for a total of 64 ports. This is a microchannel adapter and there is no PCI or ISA version of the 64-port adapter.

There are 4 different FRU of RAN (128-port type): standard EIA-232, enhanced EIA-232, rack-mounted EIA-232 and EIA-422.

To get the correct information, it is recommended that you check the appropriate 128-port adapter page below. Some 128-port adapters don't support the enhanced RAN.

[PCI 3-C #2944 128-Port Controller](#)

[ISA 3-9 #2932 128-Port Async Controller](#)

[MCA 3-7 #8128 128-Port Asynchronous](#)

TYPE of RAN:

			FFC	FRU	FC	Speed
	RAN 16-Port	EIA-232	837	88G3842	#8130	1.2 Mbps
(Rack Mount)	RAN 16-Port	EIA-232	837	40H2589	#8136	1.2 Mbps
	Enhanced RAN 16-Port	EIA-232	837	93H6549	#8137	2.4 Mbps
	Enhanced RAN 16-Port	EIA-422	684	93H6563	#8138	2.4 Mbps

Diagram:

Update: Jan 2003 by BJ Croft

Spaceball 6094-030

	P/N	
9114-275	33L3251	black
6094-051	41L6030	
Required AIX 4.2.1 or 4.3.2		
6094-040 Input Device.....	88G4596	Europe
	88G4597	USA
Cable adapter.....	88G4600	9pin-to-25pin
6094-030 Input Device.....	09G3743	
Signal Cable.....	39F8228	
Power Cable.....	39F8302	
Driver Diskette....	09G3748	
Power Supply - 120V.	6247468	
Fileset.....	devices.serial.sb1.X11	
6094-031 Input device.....	08L0232	Not sold by IBM anymore
Signal Cable.....	08L0234	
6094-600 Magellan 3-D.....	93H8631	

Tranfo for 6093-011/012 6094-30

120V Power Supply.. P/N6247468

240V Power Supply.. P/N6247469

100V Power Supply.. P/N74F3089

Installation and User's Guide..... GA23-2071

Interesting RETAIN Tip: H12252

Others Info to know: 6094-030 is not supported on the Graphics Input Device Adapter

HINTS: 1) When plugged in, the spaceball beeps depending on the default mode:

2 beeps....	Standard Mode
3 beeps....	CATIA mode
4 beeps....	CAEDS mode
5 beeps....	CGS mode

2) This information is kept inside the spaceball. So, if another spaceball is plugged on the same port, it may beep differently. Be sure to get the mode customer needs. I have seen a customer

using CATIA and the desired mode was Standard. Both modes are supported with CATIA.

- 3) To change the mode, press the Pick button and another button as follow:

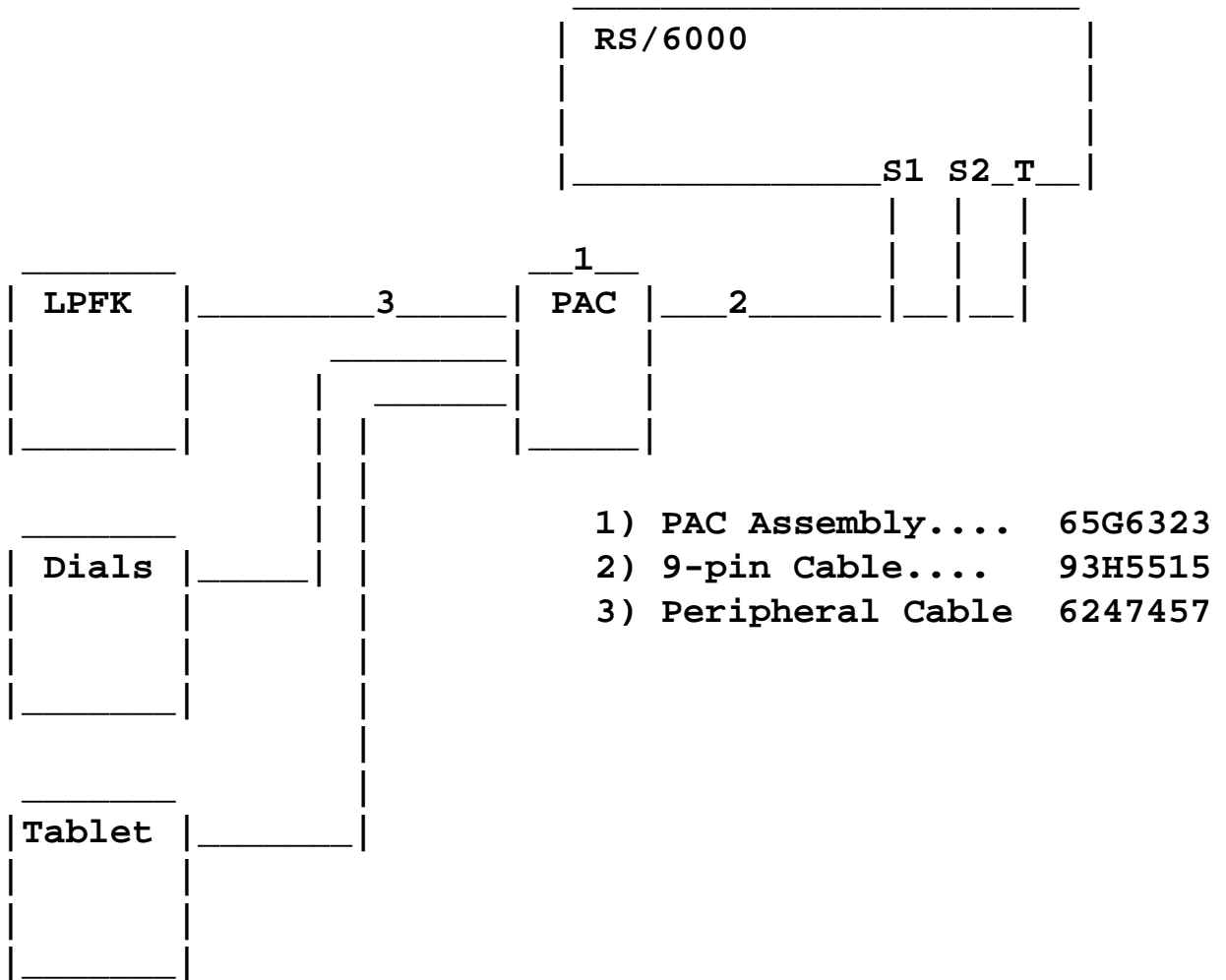
Modes

STANDARD: Press the Pick button and button #2
CATIA: Press the Pick button and button #3
CAEDS: Press the Pick button and button #4
CGS: Press the Pick button and button #5
PERMANENT SAVE: Press the Pick button and button #8
after having chosen the desired mode. VERY IMPORTANT !

Spaceball can be configured as dials or tty. So, be sure the way it is configured is the way the application expects.

PAC Peripheral Attachment Connector

7043 & 7025



Fans FFC 166

7010-120/130.....		53F3986	
7012 Front Fan 60mm 320/32H early.....		40F9980	
60mm 380/390/39H.....		11H3974	
80mm 32H Late to 39H....		00G2981	
397.....		11H2694	
G30/G40.....		71F1128	
Rear Fan 320 to 39H except 397....		40F9979, 88G3761	
397.....		11H3975	
G30/G40		11H3884	
DASD 40mm Non-380/390.....		43G0780	
Brackett1.....		43G0781	
Brackett2.....		43G0782	
Screw (1 required to hold 2 bracketts)		32G1536	
DASD 60mm 380/390/39H.....		88G3806	
Brackett.....		88G3570	
Shock Mount.....		81F7977	
Screw (1 required).....		00G1268	
7013 Front Fan 55L.....		32G1528	
Rear Fan Not 55L.....		22F9685	
55L.....		40F9979	
Power Sup Fan Early Models + 55L..		22F9685	
570/580/58H/590.....		42F7434	
Disk Fan Old Cage Early Models....		42F7331	
(Bottom+Sides) 570/580/58H/590.		00G3277	
New Cage (All sides)...		00G3277	
Internal Tape Drive.....		51G9625	
Supplemental cooling.....		65G1877	
7015.....		44F5280	

7017-S70...CEC.....	21H6959
:.3 Fan Asm.....	40H4878
S7A... CEC.....	21H6959
:.Drawer blower.....	93H8863
:.DASD Fan.....	93H8868
S80 Blowers.....	21H6959
DASD fan asm.....	93H8868
Blower (IO).....	41L6269

7025	39H9899
F80/6F0 Fan asm.....	24L1730

7026-H10.....	40H4878
H50 DASD Media.....	93H8868
Blower.....	93H8863
Fan enclosure, CPU later mod...	08L0727
Cpu Fan.....	93H8570
H70 DASD fan #1 #2 #3 #4.....	93H8868
Blower Fan #5 #6.....	41L6269
Cpu Fan #7.....	41L5329
I/O Blower #8.....	08L0530
Fan enclosure, CPU.....	08L0727
B80 Rear Fan.....	04N5121
Front Fan.....	04N5124
H80 Fan assembly (CEC,IO).....	41L5448
Fan assembly (CEC).....	41L5315
Fan controller card.....	11K1107
M80 Digital fan assembly (CEC).....	04N3345
Fan assembly (IO).....	41L5448
Fan controller card.....	11K1107

7028-6C1	
F1 Rear Fan Asm.....	24P6811
F2 Processor Fan.....	21P6798
F3/F4 Blower Asm.....	09N7515

7028-6C4

Processor fan..... 09P5865
 System fan..... 09P5866

7043-140/ Fan and Speaker ASM..... 40H7584
 150 Media fan..... 93H1817
 CPU Fansink 166,200,233 MHz 140 09P1125
 332 Mhz 140 09P1126, 40H5180
 375 Mhz 150 09P1129 or
 09P1126

 240..... 93H1820

 260.....#1 CEC..... 74G6361
 :...#2 I/O..... 97H9425

7044-170 Rear Fan..... 10L5574
 Top Front Fan..... 10L5575
 Processor Card Heatsink Fan..... 03N4134

 270 Fan asm CEC..... 74G6361
 Fan Asm (PCI)..... 97H9425

7046-B50 80mm Fan..... 11H9744

7203..... 11F8898

7204/7207/7208..... 42F7300

7206-001..... 42F7300
 005..... 55F9421

7131-105..... 21H8740

```
7134 DC fan assembly..... 88G5722
    7134..... 44F5280
```

```
7206-001..... 42F7300
    7206-005..... 55F9421
    7206-110..... 42F7300
    7206-220..... 42F7300
```

```
7207-001..... 42F7300
    7207-011..... 42F7300
    7207-012..... 55F9421
```

```
7208-011 .....serial <50000... 42F7300
                          serial >50000... 55F9421
    7208-341 Cooling fan..... 42F7300
```

```
7236..... 93H1655
```

```
7248 Front..... 8185174
```

```
9334-010/011..... 44F5280
    500/501..... 44F9979
                          See also FFC 166
```

Last updated: August 2003 by BJ Croft

Hayes-Compatible Command Set

- ATA** Answer immediately, go on line, generate answer carrier and wait for incoming carrier.
- A/** Repeat last command in buffer
- A%** Display the contents of the command buffer.
- ATBn** BELL/CCITT mode select
- ATCn** Carrier on/off
- AT&Cn** Carrier-detect line mode
n=0 CD line permanently active
n=1 CD indicates presence/absence of carrier
- AT&W0** Save profile
- ATD** Dial Put modem in originate mode and dial
- ATDR** Reverse mode - Allows the modem to autodial an originating modem
- ATDP** See ATP
- ATDT** See ATT
- ATE1** echo all commands
- ATE0** do not echo commands
- ATQ1** Quiet mode
- ATZ** Reset
- &V** Displays profile
- &F** Factory options
- ATI4** (US ROBOTICS) DISPLAY settings

ATI5 (US ROBOTICS) DISPLAY Y0/Y1 SETTINGS

AT&W (US ROBOTICS) Write setting on Y0

AT&W1 (US ROBOTICS) Write setting on Y1

Diskette Drive

Part Description	P/N	FFC
3.5" 2MB (1.44MB)	7026 7043-150 7137 Black.... 7025-F80	76H4091 935
	7024 7025 7043-140/240 White	93F2361 935
	7017 S70 S7A S80.....	07L7814 935
	7012 7013 7015 7016.....	88G4768 935
	7018.....	65G3069 935
	7020 7024 7025 7043 7248....	93F2361 935
	7038.....	21P5892
4MB(2.88MB)	7011 7006 7009	52G3400 935
5.25" 4869-002 Ext Diskette Drive for 7015		15F7993 184 71F1042 936
Diskette Signal Cable 7038.....		21P5197
Diskette Redrive Card 7013		53F3417 183
Cable, Internal for 5 1/4" Extrn Dskt Dr		40F9781 184
Riser Card, External Dskt Drive		11F8890 184
Diagnosics Test Diskette:		
	3 1/2" 2MB.....	71F1248
	4MB.....	00G3352
Blank diskette	3 1/2 2MB....	6404078
	4MB....	72X6107
	5 1/4 1.2MB....	6109660
Cable for P/N 88G4768 (ribbon + small 2nd)...		88G4766

Problem with 53F3423 to connect: (HSF H041156)

There are 2 assembly numbers that are associated with this part number: 1619728 and 1619640.

If diskette drive asm. 1619728 is in a machine and asm.

1619640 is to be substituted use the following procedure:

1. Disconnect jumper cable p/n88g4766 from cable p/n51g9521 drive asm # 1619728.
2. Install drive asm # 1619640 and connect cable p/n51g9521 to the back of the drive.

Assembly 1619728 has power routed to a different area of the drive, requiring the jumper p/n88g4766.

Updated April 2003 Bruno Croft

7020-40P and 7248-43P PowerPC

P/N	7020	7248-43P			
System Boards:					
	PowerPC 601	66Mhz	11H7092,	X	
	PowerPC 604	100Mhz	73H2638		X
	PowerPC 604	120Mhz	73H2639		X
	PowerPC 604	133Mhz	03N3390, 93H4438		X
6015	PowerPC 601	66Mhz	11H7092		
6050	PowerPC 601	100Mhz	88G1019		
6070	PowerPC 604	120Mhz	11H6743		
6070	PowerPC 604	133Mhz	12H0633		
<hr/>					
Oscillators:					
	PowerPC 601	66Mhz..	11H6059	X	
	PowerPC 604		11H6084	X	
	Proc Upgrade 604..		52G0728	X	
	Proc Upgrade 604e		93H3233		X
	(CPU, Power Reg and fan)				
<hr/>					
Disk					
#9396/#8228	1.2GB	SCSI-2	07H0390, 06H6416		X
#3031	2.0GB	SCSI-2	06H3370		X
#3096/#3097	2.1GB	SCSI-2 5400RPM	93H7151		X
#3099	2.2GB	SCSI-2	76H0955		X
	(Replaces original 2GB 06H3370)				
<hr/>					
Power Supply:					
			06H2967	X	
			06H8619		X
<hr/>					
CD-ROMs:					
	680MB	2X SCSI-2.....	06H2150	X	
	680MB	2X SCSI-2.....	88G4898		X
	680MB	4X EIDE.....	06H7654		X
	680MB	4X SCSI-2.....	73H1513 <-- 88G4921		X
<hr/>					
Diskette Drives:					
	3.5":	1.44MB..	93F2361	X	X
		2.88MB..	82G1887	X	

5.25":	1.2MB...	71G0659	X	X
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Tape Drives 4mm:

2GB.....	16G8404	X	
4GB.....	59H3480,		X
	59H2683		X

Keyboards:

US.....	42H1296	<- 82G3278
Canadian-French.	61G2909	
France-French...	1391402	

TrackPoint Keyboards:	US	61G2901
	CF	61G2909
	FR	61G2841

TrackPoint Keypads:	US	82G3278
	CF	61G2911
	FR	61G2843

Riser Cards:

3 ISA + 2 PCI	8185214	X	
3 ISA + 2 shared ISA/PCI	06H4715		X

Adapters:

Ethernet.....	48G7170	X	X
Token-Ring 16/4.	73G2048	X	X
X.25.....	71G6458	X	X
8-port ISA.....	11H5969	X	
Video Capture...	11H5939	X	X
Voice-Over-Data-Modem	11H6098	X	X
SCSI-2 Fast/Wide PCI.	11H8085		X

Video Adapters:

1MB S3 928.....	8185109	X	X
2MB S3 864.....	8185291	X	X
2MB S3 928.....	8185006	X	X
2MB Wietek P9000..	8185292	X	X
2MB Wietek P9100..	11H6095	X	X
4MB Wietek P9100..	11H6096	X	X
GXT150P.....	8184190	X	X

Memory Modules:

4MB	73G3233	X	6015
8MB	73G3125	X	6015
	92G7521/		X 6050, 6070

	or 73G3234		X	
16MB	93H5582		X	6050, 6070
32MB	92G7429	X		6015
	93H5583		X	6050, 6070

L2 Cache:

_____ 256KB _____	8185175	X		6015
|	|_____ 12H1438			6050
|	|_____ 12H0611		*1	6070
|_____ 512KB _____	12H0612		*2	6070
Bracket for L2 Cache	8185288	X		6015, 6050,

*1 Standard on 7248-42P model 100 (100MHz)

*2 Standard on 7248-42P model 120/130 (120/133MHz)

Displays:

15" Northern Hemisphere..	11H3999
15" Southern Hemisphere..	11H4001
17" Northern Hemisphere..	11H3996
17" Southern Hemisphere..	11H3998

Battery:

	8185417	X	X
--	---------	---	---

Cables:

SCSI-2 Data...	8185218	X	
	88G2391		X
SCSI-2 External Connector	12H0640		X
Terminator	92F0057	X	X
8-port Async ISA	11H5967		
8-port Async ISA	11H5969		
Audio/Camera..	11H4002		
Video 15-pin..	11H4003		
Video 13w3....	11H4004		
Keyboard.....	61X8898		
SCSI-2 Data...	8185218		
Diskette Drive	8185217	X	
	06H6325		X
External device 2-connector	70G9858		

Fan:

Front	8185174	X	X
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Mouses:

2-button.....	33G5420
---------------	---------

2-button enhanced. 96F9258
AIX 3-button..... 8185429

Keylock:

8185418 X
06H1776 X

Internal SCSI cable 88G2391 <-- 88G1937

Tools:

Meter 9900167
PCMCIA Wrap Plugs 35G4680
Tri-connector Wrap Plug 72X8546
SMS Diskette 11H6105

Updated: Mar 2004 by Bruno Croft

Xstations

	120	130	140	150	160
Planar USA kind	31G9891	31G9901	65G4381Tok	43G2831	65G4622To
With 4MB VRAM Token	53F3963	81F7807	65G1977Eth		65G4462Et
With 4MB VRAM Ethernet					65G4635To
					65G4634Et
Planar World Trade	31G9892, 59F4492	65G4288 51G7951 31G9902	65G4381Tok 65G1977Eth	43G2831	
Token Ring Adapter	16F1144	53F7748	N/A	51G8202	N/A
Ethernet Adapter			N/A	43G2814	N/A
Dual Async Adapter		34F0008			
Riser Card Asm	59F3736	91F0628			65G4548
512K Video Memory	75X5894				
1MB Video Memory		91F0629			
1MB Mem Exp Kit	90X8624	90X8624			
2MB Mem Exp Kit	92F0104	92F0104			
4MB MEM EXP KIT		87F9980		51G8553	
8MB Expansion kit				71F7011	
8MB DIMM					73G3125 65G4615
Option FLASH Card 2MB			43G2855	43G2855	43G2855
4MB			43G2856	43G2856	43G2856
10MB					65G4632
20MB					65G4633
Power Supply	71F0066	43G0322 00G1274	32G1902	32G1902	65G4695
Keyboards	Same as Systems See Devices/Keyboards & Mouse				

Mouse	11F8895				
30MB Disk Drive	no	00G1879			
	120	130	140	150	160

Cable For 6091	58F2901	58F2901	58F2901	09G3539	58F2901
Cable for 1091	N/A	09G3588	09G3588	09G3589	09G3588

	120	130	140	150		
Monitor	FC	Cable	FC	Cable	FC	Cable
8503, 8504	N/C	N/C	--	--	--	--
8512, 8513, 8518	N/C	N/C	--	--	--	--
8507, 8513, 8515	N/C	N/C				
8508, 8517	N/C	N/C	N/C	N/C	4213	51G7826
6314, 6317, 6319, 6324, 6325, 6327, 9524, 9525	N/C (E)	N/C	N/C	N/C	4213 (E)	51G7826
9521, 9527 (N)	N/C (E) or 4217	N/C or 58F2901	N/C or 4217	N/C or 58F2901	4213 (E) or 4214	51G7826 or 09G3539
POWERdisplay 16s	4228	09G3588	4228	09G3588	4229	09G3589
POWERdisplay 16/17/19 1091-051	4217 9020	58F2901 09G3588	4217 9020	58F2901 09G3588	4214 9021	09G3539 09G3589
5081-16, 6091-016, 6091-19, 6091-19i 6091-023	4217	58F2901	4217	58F2901	4214	09G3539
Vendor Display	4217	58F2901	4217	58F2901	4214	09G3539
1152x900 Display	--	--	--	--	--	--

FC Feature Code

N/C No speciality cable required to attach this monitor

-- Display is NOT supported on this adapter

(E) 1024x768 Interlaced only unless EPROM is upgraded

(I) Adapter supports 1024x768 Interlaced mode only.
No speciality cable required to attach this monitor

(N) These monitors have 2 connectors on the back of the monitor.
A 15-pin D-shell connector and a 5-BNC connector using the 6091
display cable (must use adapter's switch setting for the 6091
monitors.)

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      :: : ::
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@@@@@

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±                ±                ±                (--) \@ @@

```

±@@@

```

--±--x--x--x--x--x--x--±--x--x--x--x--x--x--±--x--x--x--x--x--x--

```

±---

```

±                ±                ±                \@@±@@

```

```

--±--x--x--x--x--x--x--±--x--x--x--x--x--x--±--x--x--x--x--x--

```

±---

```

\±//  \||/  \\|||//  \²/  \\|||/  \|||//  \±//  \\|||//  \||/±\|

```

O u t s t a n d i n g i n t h e f i e l d !

[\[Home\]](#)

ADAPTERS

[PC/MCA/ISA](#)

[Integr/SBus](#)

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GRAPHICS

[PC/MCA](#)

FILESETS

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MEMORY

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- [MEMORY MODEL](#)
- [RIO LOBO SMP MEMORY](#)
- [PNs MARKED](#)
- [EC LEVELS](#)
- [TECHNICAL INFO](#)

Dec 21 2000 by Bruno Croft

CPU and Main Parts

Click on any RS/6000 or pSeries model below or move down with the right scroll bar

pSeries [610](#) [615](#) [620](#) [630](#) [640](#) [650](#) [655](#) [660](#) [680](#) [690](#)

[6015](#) [7006](#) [7006](#) [7007](#) [7008](#) [7009](#) [7010](#) [7011](#)

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[G40](#)

7013- [520](#) [530](#) [540](#) [550](#) [55L](#) [560](#) [570](#) [580](#) [58F](#) [58H](#) [590](#) [591](#) [59H](#) [595](#)

7015- [930](#) [950](#) [970](#) [97B](#) [980](#) [98B](#) [990](#) [R10](#) [R20](#) [R21](#) [R24](#) [R30](#) [R40](#) [R50](#)

[7016](#) 7017- [S70](#) [S7A](#) [S80](#) [S85](#) [7018](#) [7020-40P](#)

7024-[E20](#) [E30](#) 7025-[F30](#) [F40](#) [F50](#) [F80](#) [6F0](#) [6F1](#)

7026- [H10](#) [H50](#) [H70](#) [H80](#) [M80](#) [B80](#) [6H1](#) [6M1](#)

7028- [6C1/6E1](#) [6C4/6E4](#) 7029-[6C3/6E3](#) [7030](#) 7038-[6M2](#) 7039-[651](#)

7040-[671/6D1](#) [681/6D1](#) 7043-[140/150/240/260](#) 7044-[170/270](#)

7046-[B50](#) [7248](#) [7317](#) [9076](#) [9111](#) [9113](#) [9114](#) [9117](#)

MODEL

P/N

6015	System board CPU 601 66MHz...	11H7092
	Oscillator	11H6059

7006-41T/41W	42	System Planar(CPU)	12H1281, 88G2538.
		Riser Card 512KB L2 cache	93H4602, 40H2935, 88G2731.
		Riser Card no cache	88G2539

7006-42T/42W	91	System Planar(CPU)	39H8152
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7007-N40	Portable	Repair Center Only	
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7008-M20

M20	43	System Planar(CPU integrated)..	43G2429, 43G0053
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7009-C10	48	CPU Card (sysplanar0)	40H5691, 65G8331, 65G7916.
		System Planar	65G7904
		1MB L2 cache (CPU feature)	65G7929

7009-C20	90	CPU Card	40H5693, 65G8126
		System Planar	65G7904
		1MB L2 cache (CPU feature)	65G7929

7010

ALL	See Devices/X-Stations		
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7011-220	41	System Planar (CPU integrated)	65G7374, 51G8365, 51G7834, 43G0588, 43G0335.
		Fuse	1383417

7011-230	47	System Planar (CPU)	8184088, 51G8133
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7011-250	46	66MHz System Planar (CPU)	93H5861, 52G3344, 51G8101.
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7011-25F	49	80MHz System Planar (CPU)	8184306
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7012-320	31	CPU Card	91F1009, 81F7889, 53F3352, 53F3206.
		System planar 320/32E/32H	43G0534, 71F0157, 53F3347.

7012-32H/32E 35 CPU Card 81F8232
System planar same as model 320

7012-340 37 CPU Card 52G4190, 51G9539,
51G8771, 00G3149,
81F7952.
System Planar 51G8812, 51G8630.
71F1197, 31F3956.
Serial Flex Cable 32G0191, 32G0176.

7012-34H 77 CPU Card 51G9433, 51G8989.
System Planar 93H7182, 93H4178,
00G2793.
Serial Flex Cable same as 340

7012-350 38 CPU Card 52G4007, 51G8770
00G1998.
System Planar same as 7012-340
Serial Flex Cable same as 340

7012-355 77 CPU Card 51G9433, 51G8989.
System Planar. 51G9107
Serial Flex Cable same as 340

7012-360/36T 76 CPU Card 51G9437, 51G9074,
51G8823, 10G8819.
System Planar 93H7182, 93H4178,
00G2793.
Serial Flex Cable same as 340

365 76 CPU Card same as 7012-360
System Planar 51G9107
Serial Flex Cable same as 340

370/ 75 CPU Card 51G9441, 52G3908,
37T 43G0914.
System Planar 93H7182, 93H4178,
00G2793.
Serial Flex Cable same as 340

375	75	CPU Card same as 370/37T	
		System Planar	51G9107
		Serial Flex Cable same as 340	
380	58	CPU Card	93H5028, 40H6723, 40H2706, 11H3465, 52G4475.
		System Planar	40H6690, 52G4325.
		Serial Hard Card	88G3623
390	57	CPU Card	93H4897, 40H6717, 40H2837, 88G4006, 11H3462, 52G4691.
		System Planar	See 380
		0.5MB L2 cache (plugs on CPU)	88G3893
		1.0MB L2 cache (plugs on CPU)	88G4012
39H	59	CPU Card	93H4924, 40H2800, 88G3536.
		System Planar	See 380
		0.5MB L2 cache (plugs on CPU)	88G3894
		1.0MB L2 cache (plugs on CPU)	88G4012
397	94	System board	93H5557
G30	A6	CPU E1D	35H8750, 35H8711 19H0229.
		System planar	35H8832, 19H0228
G40	A7	CPU Card:	
		604e X4D:	
		2-way 2MB L2 Cache #5304	41L6222, (200MHz) 41L5020, 07L8979. 93H3844, (187MHz) 93H2365. (187MHz)
		604 E4D:	
		2-way 512KB L2 Cache	09J4713, 35H8736. (112MHz)
		604 E4M 1-way #5303	09J4714, 35H8737 35H8737.
		System planar	09J4774, 35H8777.

7013				
520	30		CPU Planar	71F1378, 53F3351
			I/O Planar	00G3165
			Standard I/O Planar	53F3345
			Riser Card External Diskette	53F3417

7013	34	CPU Planar.....	00G3528
52H		For other cards see model 520	

7013	10	CPU Planar	81F7888, 53F3348.
530		(For other cards see model 520)	

7013	18	CPU Planar	31F4350
53H		(For other cards see model 520)	

7013	14	CPU Planar	53F3349
540		For other cards see model 520	

7013	1C	CPU Planar	52G0020, 81F8008.
550		(For other cards see model 520)	

7013	77	CPU Card	51G9433, 51G8989.
550L		System Planar (I/O Planar).	93H7182, 93H4178, 00G2793.
		Serial Flex Cable	94F3617

7013	5C	CPU Planar	51G9947, 51G9830,
560			31G9751, 31G9747.
		For other cards see model 520	

570	67	CPU Planar	8184780, 65G7623, 65G6525, 52G7365, 02G7511.
		I/O Planar	73H2604, 43G2211.
		Standard I/O Flex Circuit	8184811, 52G7347, 94F3600.

580/ 58F	66	CPU Planar	8184913, 8184797, 8184653, 8184567, 52G7551, 52G7363, 51G9933, 31G9751 00G2434.
		I/O Slot Planar	73H2604, 43G2211.
		Standard I/O Flex Circuit	8184811, 52G7347, 94F3600.

58H	71	CPU Planar	93H4853, 11H4888, 11H2375, 8184831, 8184747, 8184644, 65G7494.
		I/O Planar	73H2604, 43G2211.
		Standard I/O Flex Circuit	8184811, 52G7347, 94F3600.

590	70	CPU Planar	93H4843, 73H4278 11H5127, 11H5030, 52G1066, 8184825, 8184637, 51G9589.
		I/O Planar	73H2604, 43G2211, 32G1437.
		Standard I/O Flex Circuit	8184811, 52G7347, 94F3600.

591	79	CPU Planar	93H4880, 39H9200, 11H5216.
		I/O Planar	See 590
		Standard I/O Flex Circuit	See 590

59H	72	CPU Planar	93H4055, 11H5161, 52G7578.
		I/O Planar	See 590
		Standard I/O Flex Circuit	See 590
		.5MB L2 cache (riser card)	88G3894

595	89	CPU Planar	39H9164.
		I/O Planar	93H6519, 40H7517

J30 CPU:

C4D 604 2way 1MB cache 09J4712, 19H0317
 (All upgraded J30)

C1D 601 2way 1MB cache 35H8748, 35H8710,
 (J30 not upgraded) 19H0247.

SYSTEM PLANAR 19H0242

IOD Card 09J4720, 35H8682,
 35H8780, 35H8698,
 19H0335, 19H0246,

MCA Card MP 95H0010, 19H0237

SIB System Interface Board 35H8668, 19H0336,
 19H0216.

Backplane 19H0500

J01 Expansion Unit MCA Card PME 35H8834, 19H0238.
 Backplane 19H0325, 19H0244.

J40 A1 CPU C4D 604 2way 1MB cache 09J4712, 19H0317 (112MHz)
 MCA Card MP 95H0010, 19H0237.
 System planar 604 35H8778
 Backplane 19H0500

J50 X4D 604e CPU Card 41L6222,
 41L5020,
 07L8979.

System Planar NMB 19H0261, 09J4887,
 09J4887, 09J4816,
 19H0035.

I/O Card 09J4760

7015
 930 02 CPU Planar 53F3350
 Standard I/O Planar CPU Drawer 53F3345
 I/O Planar CPU Drawer 00G3165
 I/O Planar Async Drawer 59F3785

950	2E	CPU Planar	52G5762, 00G1106.
		Standard I/O Planar CPU Drawer	53F3345
		I/O Planar CPU Drawer	00G3165
		I/O Planar Async Drawer	59F3785

970, 97B	63	CPU Card	52G6076, 65G3448, 52G5729, 52G1072, 81F9067.
		Combination Planar	93H3522, 65G3400, 52G1266, 31F4312.
		2nd I/O Planar (Option)	93H3561, 31F4324.
		Redriver card	00G2608

980, 98B	64	CPU Card	52G6085, 65G6896, 52G5669, 43G2188.
		Combination Planar	93H3522, 65G3400, 52G1266, 31F4312.
		2nd I/O Planar (Option)	93H3561, 31F4324.
		Redriver card	00G2608

990	80	CPU Card	93H4848, 11H3357, 52G6128, 88G0262, 52G5755.
		Combination planar	93H3522, 52G6071, 88G0216.

R10	67	CPU Card	8184780, 65G7623.
		I/O Planar	93H3547, 65G3009.

R20	67	CPU Card	93H4039, 8184612.
		I/O Planar	93H3547, 65G3009, 52G1504.
		.5MB L2 cache (riser card)	88G3894, 0934172

R21	79	CPU Card	39H9200
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R24 82 CPU Card 10J2962, 40H0863,
11H7417, 88G0007.
I/O Planar 93H3522, 52G6071,
88G0216.
.5MB L2 cache (riser card)..... 88G4012, 0934174.

R30 CPU:
C1D 601 Card dual 35H8748, 35H8710,
19H0247.
CPU module 11H2655.
Lateral Planar 1 65G6068.
System planar 601 19H0242.
I/O Card 09J4720, 35H8682,
35H8780, 35H8699,
19H0338, 19H0279,
19H0246.
MCA Card MP 95H0010, 19H0237.
MCA Card Expansion Unit MPe 19H0238
I/O module:
I/O Planar 35H8834, 19H0238.
Lateral Planar 2 40H0743, 65G6078.
I/O Module 11H7398
System Interface Board 40H0421, 65G6131.

R40 C4D 604 Dual 1MB 09J4712, 19H0317.
MCA Card Expansion Unit MPe 35H8834, 19H0238.
System planar 604 35H8778
Lateral Planar1 40H7013

R50 FRU MFG P/N
X4D 604e CPU Card 41L6222 <- 41L6221
41L5020 <- 41L5019
94H1087 <- 08L0375
08L0784 <- 08L0783
08L0373 <- 08L0372
07L8979 <- 07L8978
07L9397 <- 07L9398
94H0389 <- 93H9536
94H0389 <- 93H9535
94H0389 <- 93H9534
94H0389 <- 93H7201
I/O Card 09J4760 <- 09J4799

09J4760 <- 09J4799

09J4760 <- 09J4799

System Planar NMB 19H0261, 09J4887,
09J4887, 09J4816,
19H0035.

Lateral Planar1 40H7013
Flex Cable 09J6411 09J6436

7016
730 10 CPU Planar 81F7888, 53F3348.
I/O Planar 00G3165
Standard I/O Planar 53F3345

7017-S70 Proc card* 120 MHz Type 2 5311 90H9694
Type 1 5310 90H9662
Service Processor 93H2275 <- 94H0223
SPCN Card Assembly 21H6961
System backplane 90H9629

7017-S7A Proc card 262MHz Type 1 5312 08L1473 incl VPD module 97H6359
Type 2 5313 08L1474 incl VPD module 97H6358
Service Processor 08L1189 <- 07L7768
SPCN Card Assembly 21H6961
System backplane 90H9629

IO Drawer SCSI backplane 09P3057, 08L1468

7017-S80 Processor Type 2 246B 450MHz. 23L7447 LH
Type 1 246A 450MHz. 23L7434 RH
* hold 6 processors per card
SPCN Card Assembly 04N2389
Service Processor 11K0301, 03N2655
System backplane cage 23L7598

IO Drawer SCSI backplane 09P3057, 08L1468

7017-S85 Processor Type 2 246E 600MHz 21P4517 6-Way
 p680 Type 1 246F 600MHz 21P4511 6-Way
 Service Processor 03N2655
 System backplane cage 23L7598
 IO Drawer SCSI backplane 09P3057, 08L1468

7018
 740, 30 CPU Planar 71F1378
 741 Standard I/O Planar 53F3345
 Fuse Standard I/O Planar 72X8488

770, 67 CPU Planar 8184780, 65G7623,
 771. 65G6525, 52G7365
 I/O Planar 93H3547, 65G3009,
 52G1504.
 770)Standard I/O Flex Circuit. 52G1456
 771)Standard I/O Flex Circuit. 52G1483

7020-40P System board CPU 601 66MHz 11H7092.
 Oscillator: 66MHz 601 11H6059
 604 11H6084
 Processor Upgrade: 604 52G0728
 (CPU, Power Reg and fan)

7024-E20 CPU Card 133MHz 03N3936 (100MHz now subs to the 133MHz) H132378
 *100MHz 40H6616, 40H2218, 39H9996. 11H9482.
 * 100MHz CPU are not produced anymore and will
 sub to the 133MHz.
 233MHz 93H3456
 System Planar 93H4808, 73H3275, 73H1750, 73H3238.
 40H6217, 40H6621, 40H2177, 11H9493,
 11H4837.

7024-E30 CPU Card 133MHz 03N3936, 73H3614, 40H5381, 40H5385
 166MHz 93H2431, 12H1702 #4313
 233MHz 03N3989, 07L8001, 93H3456.
 System Planar (same as E20)

7025-F30

CPU Card: 133MHz 73H3614, 40H5381. 40H5385.
 166MHz 93H2431, 12H1702. #4313
 233MHz 03N3989, 07L8001, 93H3456.

System board 93H4780, 73H3580, 73H0738, 73H3454,
 12H2209, 11H9508, 11H4851.

Backplane 40H0114.

7025-F40 CPU Card 166MHz 11H7517, 93H3153.
 233MHz 03N3273, 41L6111, 93H5163.

System board 93H8652, 40H3098

Backplanes:

SCSI Non-Hot-Swap 40H1432 Standard
 SCSI Hot-Swap. 40H0114 #6520 Bay C,
 #6521 Bay D,
 #6522 bay E

SSA 93H6321

Serv Proc 40H6675

7025-F50

[Service Guide PDF](#)

CPU Card: ([plug into System Card](#))
 166MHz 1-Way 93H2679
 2-Way 73H4768
 332MHz 1-Way 93H9018
 2-Way 93H8945
 L2 Cache: N/A - Included in CPU card

System Planar 07L9718, 73H1925
[Small Board. Contains 2 slots.](#)
[Each slot can receive 1 CPU card](#)
[\(1-Way or 2-Way\)](#)

IO Planar 03N3297, 03N2826, 41L5106, 08L0454,
 07L6594, 94H1117, 94H0894, 93H4746,
 73H4746.
[\(Large L shape\)](#)

Backplane:

Ultra-SCSI 09P3057, 08L1468, (1-connector)
 93H2166, 40H7259. (max 4 disks Ultra-SCSI)
 (HSF H057708)

SSA 93H6321

Service Processor 08L0442, 08L0420, 93H4214.

7025-F80

[Service Guide PDF](#)

CPU 450MHz 04N4765 1-way 2MB+L2cache
 03P0062 2-way 4MB+L2cache
 03P0070 4-way 4MB+L2cache
 500MHz 03P0085 6-way 4MB+L2cache

System board 09P1175, 43L5269

7025-6F0

CPU Card:

1-Way 600MHz 04N5353
 750MHz 09P6524
 2-way 600MHz 23L7785 667MHz in some manual
 750MHz 09P6525
 4-way 600MHz 23L7794 667MHz in some manual
 750MHz 53P1301
 System board 09P1175, 43L5269

7025-6F1

CPU Card:

p620 1-Way 600MHz 04N5353
 750MHz 09P6524
 2-way 600MHz 23L7785 667MHz in some manual
 750MHz 09P6525
 4-way 600MHz 23L7794 667MHz in some manual
 750MHz 53P1301
 6-way 600MHz 23L7799 667MHz in some manual
 750MHz 53P1334
 System Board Asm 09P1175
 Backplane SCSI 04N5589

7026-H10

CPU Card 166MHz 11H7517. 93H3153
 233MHz 41L6111, 93H5163.
 I/O Board 93H8652, 40H3098.
 Service Processor 93H4226.

7026-H50 CPU Card:
 1-way 332MHz 93H9018
 2-way 332MHz 93H8945

System Board 07L9718, 73H1925.
 Service Processor 08L0449, 08L0424, 07L8357.
 I/O Board 41L5106, 07L6594.
 Serial Card S1/S2/S3 93H6010

Backplane:
 Ultra-SCSI 09P3057, 08L1468, (1-connector)
 93H2166, 40H7259. (max 4 disks Ultra-SCSI)
 (HSF H057708)

Hot-Swap SSA 93H6321

7026-H70 CPU Card:
 1-way 340MHz 94H1013
 2-way 340MHz 94H1008
 System Board 08L0988
 I/O Board 03N3484, 08L0617.
 (inc Serv Proc)
 Backplane Ultra-SCSI 09P3057, 08L1468
 Serial Card S1/S2/S3 93H6010

7026-H80 CPU 450MHz:
 1-way 2MB+L2cache 04N4765
 2-way 4MB+L2cache 03P0062
 4-way 4MB+L2cache 03P0070

CPU 500MHz:
 6-way 4MB+L2cache 03P0085

CEC backplane 21P3784, 43L5274
 Primary I/O backplane 41L5560 U0.1-P1
 Secondary I/O backplane 41L5561 U0.2-P1

7026-M80 CPU 500MHz:
 2-way 04N6930, 04N4842
 4-way 04N6931, 04N6698, 04N4838

Backplane asm 04N6572, 04N3023

7026-B80 CPU Card:
 p640 1-Way 375MHz 09P0341, 09P0399
 2-Way 375MHz 09P0227, 09P0406
 2-Way 8MB L2cache 09P0143
 System Board 09P2053
 I/O Board 00P1859
 Disk Backplane 4-pos 04N5209

7026-6H1 CPU Card:
 p660 1-Way 600MHz 04N5353
 2-way 600MHz 23L7785
 4-way 600MHz 23L7794
 6-way 600MHz 23L7799
 Backplane 21P3784
 Primary IO backplane 41L5560 U0.1-P1
 Secondary IO backplane 41L5561 U0.2-P1

7026-6M1 21P6381 CPU card 2-Way 750MHz
 p660 21P6383 CPU card 4-Way 750MHz
 04N3524 Backplane asm
 21P6148 Clock Card
 04N3867 RIO Card Assembly
 21P6270 8-way 750MHz Regulator Assembly

7028-6C1 Rack-Mounted
 6E1 Deskside
 p610 09P2420 Systemboard
 09P3669 Processor Card 450MHz 1-Way #5309
 09P3666 Processor Card 375MHz 1-Way #5300
 09P5495 Processor Card 333MHz 1-Way #5322
 21P7165 SCSI Backplane

7028-6C4 Rack-Mounted
6E4 Deskside

p630

00P2974	Processor Asm	1.0GHz	1-Way	#5131	#8082
00P2977	Processor Asm	1.0GHz	2-Way	#5132	#8083
00P2728	Processor Asm	1.2GHz	1-Way	#5133	#8106
00P2731	Processor Asm	1.2GHz	2-Way	#5134	#8107
00P2733	Processor Asm	1.45GHz	1-Way	#5126	#8108
00P2736	Processor Asm	1.45GHz	2-Way	#5127	#8109
00P5830	CEC backplane RIO_G capability				
00P4488	CEC backplane GQ processor (subs to 00P5830)				
00P3166	CEC backplane GP processor (subs to 00P5830)				

7029-6C3/6E3

p615

System backplane (CPU):

80P2408	1-way	1.2 GHz
80P2401	2-way	1.2 GHz
00P4966	1-way	1.45 GHz
00P4970	2-way	1.45 GHz

Service processor 80P2388

--> Customer Replaceable Parts:

[Video](#)

7030-3AT	CPU Card	93H5028, 40H6723, 40H2706, 11H3465.
	System Planar	40H6690, 52G4325

7030-3BT	CPU Card	93H4897, 40H6717, 40H2837, 88G4006, 11H3462, 52G4691.
	System Planar	40H6690, 52G4325.
	.5MB L2 cache (riser card)	88G3893, 0934173

7030-3CT	CPU Card	93H4924, 40H2800, 88G3536.
	L2 cache 512KB	88G3894 (riser card)
	1MB	88G4012

7038-6M2

p650 2-Way 1.2GHz 53P4953 POWER4+ #5122
 2-Way 1.45GHz 00P4050 POWER4+ #5208
 CUoD 00P4045 1.45GHz #7014

Tape Media Tray 09P2653

CD-ROM Tray 09P2645

7039-651 4-Way 1.3GHz 44P3103

p655 8-Way 1.1GHz 44P3112

4GB Memory Card 09P6215

8GB Memory Card 00P2881

433MHz L3 Cache 00P3982

Service Processor VPD 00P4017

Battery 16G8095

7040-671 System Backplane 44P1282 28AD

p671

1.1GH 4-way 00P2830 25D7 25D8

1.1GH 8-way 09P5629 25D5

Clock Card 21P7271 27C1

1st IO Book 09P5687

Battery TOD 16G8095

HMC 9-pin Serial Cable 44P0206

HMC 25-pin Serial Cable 31L7196 for async adapter

2nd IO Book 53P1573

7040-681 System Backplane 11P3046

p690

MCM (Processors)

1.3GH 4-way 00P2796, 03N3223

1.3GH 8-way 00P2818, 03N3228

1.1GH 4-way 00P2830.

1.1GH 8-way 00P2821

1GHz 4-Way 03N3229.

1GH 8-way 09P3217 Now subs to 00P2821

L3cache 09P3218 400MHZ

 09P3219 433MHZ

Clock Card 21P7271 1.0GHz
 21P7272 1.3GHz

7040-61D I/O Subsystem

I/O System Board 44P1414,
 11P4334,
 11P2623.

7043-140 System Board:

43P 166MHz 09P5572, 09P1145, 11K0380, 93H7142, 73H4571.
 200MHz 09P5571, 09P1142, 11K0382, 93H7143, 93H2573.
 233MHz 09P5570, 09P1139, 11K0383, 93H6023.
 332MHz 09P5569, 09P1135, 11K0384, 93H9334.

L2 Cache: 512KB 75H5462 standard
 1MB 75H5463 Option #4042

CPU Fansink 166MHz 09P1125, 40H5180
 200MHz " "
 233MHz
 332Mhz 09P5421, 09P1126

Riser ISA/PCI slot 73H4532

7043-150 System Board: (includes L2cache):

43P 375MHz 09P5763, 09P1149, 11K0459,
 11K0157, 41L5912, 41L5918,
 41L5590, 41L5177, 07L8446.
 250MHz 09P5764, 09P1153, 09P0168

CPU Fansink 375MHz 09P1129
 or
 09P5421 depending of board type

Riser adapters 08L1417

7043-240 Processor Card:

43P 166MHz 11H7517 including 512KB L2 Cache
 233MHz 93H5163 including 1MB L2 Cache

I/O Planar 11H7516

Riser ISA/PCI slot 73H3712

7043-260 CPU Card 200MHz 09P0695, 09P0498, 03N2403,
43P 08L1013, 08L0858, 94H1261

System Board 08L1303

I/O Board 41L5830, 03N2443, 08L0633

7044-170 System board 09P2017, 09P1134, 41L5721
44P CPU Cards 333MHz 09P0277, 11K1116.
400MHz 09P0272, 11K1118.
450MHz 09P0943.

7044-270 System board 08L0988

44P Proc Card:

375MHz 1-way 4MB cache 09P0399, 09P0341, 00P2171, 11L0171.

375MHz 2-way 4MB cache 09P0406, 09P0227, 11K0218.

375MHz 2-way 8MB cache 09P0143

450Mhz 2-way 8MB cache 09P4478

I/O Board 41L6013

7046-B50 System board:
(CPU 375MHz) 09P1149, 11K0459, 41L5912

7248-43P System boards:

100Mhz 93H4436, 73H2638, 88G1003. Mod 100

120Mhz 93H4437, 73H2639, 11H6768. Mod 120

133Mhz 93H4438, 73H2640, 11H6773. Mod 132

L2cache:

256K 12H0611 Standard on mod 100

512K 12H0612 Standard on mod 120/132

Processor Upgrade: 604e 93H3233 (CPU, Power Reg and fan)

All Fuse (Kbd, Tablet) 81F8129, 72X8488

7317-F3L CPU Card 133MHz 73H3614
166MHz 12H1702
233MHz 93H3456

9076 332MHz Silver Thin #2050/Wide #2051 SMP

System Planar	07L9718	
I/O Planar	41L6138, 08L0626	
PCI expansion	03N3716	I1 to I8 slots
CPU Card 332MHz	03N3007, (350MHz)	
	93H8945, (350MHz)	
	21L3216, (339MHz)	
	93H9716. (339MHz)	
Service Processor	03N3677, 08L0442	

9076 604E R50 High #4324

cpucardX CPU X4D	41L6222, 41L5020, 94H1087, 08L0784,
	08L0373, 07L8979, 07L9397, 94H0389.
sysplanar0 NMB	19H0261, 09J4887, 09J4816.
ioplanar0 BIO	09J4902, 09J4888, 09J4875, 09J4827,
	09J4760, 09J4720

9076 P2SC 160MHz Thin #2022

CPU 160MHz	41L6320, 93H5557 US
	31L8518, 31L7146 EMEA

9076 P2SC 135MHz Wide #2007

CPU 135MHz	11K0332, 03N3207 USA
	31L7123 EMEA ONLY
Io Planar	93H6519, 40H7517

9076 Winterhawk I Power3 SMP 200MHz #2052/3

Proc Card 200MHz	09P0695, 09P0498, 03N2722, 03N2403
	08L1013, 08L0858, 94H1261, 94H1169

9076 Winterhawk II Power3 SMP 375MHz Thin/Wide

CPU 375MHz	09P0644, 09P0197, 03N3148,
450MHz	09P4478. #4445

9111-520 More Info at [Information Center](#)

p5			FC	CCIN
	1-Way 1.5 GHz	80P4518		522A
	1-Way 1.65 GHz	80P4590		5228
	2-way 1.65 GHz	80P4589		5229
	Service processor	80P6024, 80P5557, 80P4633.		28D7

9113-550 More Info at [Information Center](#)

p5			FC	CCIN
	2-way 1.65 GHz	80P5231	#5237	26F1

9114-275

Intellistation

System backplane:

Pow4+	1-Way 1.20GHz	80P2749, 80P3108, 80P2408, 00P4958	#5218	xxxx
	1-Way 1.45GHz	80P2764 00P4966.	#5223	
	2-Way 1.45GHz	80P2757, 00P4970.	#5224	

9117-570 More Info at [Information Center](#)

				FC	CCIN
DDR1	2-Way 1.90 GHz	80P5246, 80P5171.	#7832		26EB
DDR2	2-Way 1.90 GHz	80P5378, 80P5371.	#7833		29AB
	2-Way 1.65 GHz	80P4995 80P4617	#7830		26EA Casper Dropped ?
	2-Way 1.65 GHz	80P5243 80P5166	#7830		26F2 Casper
	2-Way 1.50 GHz	80P5161	#7834		26EF
	Service Processor	80P3901			

__ Last Updated Oct 2004 by BJ Croft



RSINFO/6000



Riser Card Name	P/N
Ethernet Thick/Thin 340/350/55L.....	43G0382
Fuse.....	00G1295
Ethernet Twisted-Pair 340/350/55L.....	00G1276
SCSI 7011/7012 Integrated SCSI.....	00G2721
7011-220.....	31G4288
DBA 120/160mb Disks.....	81F8900
GT1 graphics adapter 7011.....	31F4292
External Diskette.....	11F8890
7008 System Board.....	43G0055
Graphic 7006/7011-250.....	8184016
MCA I/O 7009.....	65G7942
7011 All serial/parallel.....	31F4289
7043-140.....	73H4532
7043-240.....	73H3712



9076 SP Menu

- [SP2 PARTS](#)
- [SP2 Nodes Types](#)
- [SP2 Info](#)

Oct 27 2000

FIRMWARE et VPD locations

Machine	Location of System Firmware	Location of Service Processor Firmware	Location of VPD
7024	CPU card	Service Processor card	System Planar
7025-F30	CPU card	Service Processor card	System Planar
7025-F40	System Planar	Service Processor card	Operator Panel
7026-H10	System Planar	Service Processor card	Operator Panel
7025-F50	I/O planar	Service Processor card	Operator Panel
7026-H50	I/O planar	Service Processor card	Operator Panel
7043-140	System Planar		System Planar
7043-240	System Planar		System Planar
7043-150	System Planar		Riser card
7046-B50	System Planar		Riser Card
7043-260	I/O Planar	I/O Planar	Operator Panel
7026-H70	I/O Planar	I/O Planar	Operator Panel
7017-S7X	Operator Panel	Service Processor Card	Service Processor Card

Lot of Cables

ID	CABLE NAME	P/N	FC	m-length-ft	
A	Parallel Printer Cable	1525612	3100	3	10
		09F5544		5	16.4
	4019 Serial Cable (no interposer)	6486685			
A1	First Device Cable (SCSI-II)	32G0397	2836	1.5	5
A1	First Device Cable (SCSI-II 9334-500)	45G2858	2920	2.4	7.9
A3	SCSI-2 SE Controller to 9334-500	51G8569	9211	4.75	15.6
A3	SCSI-2 SE Controller to 9348	51G8569	3121	4.75	15.6
A3	Optional rack attachment cable for 7209 Expansion Rack.	51G7633	3121	4.75	15.6
A4	External Tower Cable (SCSI-II to 9334)	45G2858	9206	2.4	7.9
A5	SCSI-2 Internal Cables 6-drop (Supplied with #2831)	51G8571		1.8	6
A6	SCSI-2 Passthrough Terminator Cable	51G8568	2914	1.5	5
AB	Display cable 3BNC 13w3	09G3539	4214	1.83	6.0
B	Serial Port Adapter Cable. Two provided with each system unit except for Models 220, 340 and 350, which do not require them.	00G0943	N/A	0.09	.33
BB1	IBM-supplied Cablesset	92F3714	N/A	N/A	
BB	Coaxial Cable	6245998	N/A	5	16.4
BB	Customer-supplied RJ45 unshielded TP	N/A	N/A	N/A	
C	Long version of Cable-B used with 7015	59F4533	N/A	3	10
CC	Display Adapter Cable, contains an integral toroid assembly (cable supplied with 7235)	58F2903	N/A	2.4	8
D	Async Cable-EIA-232/v.24, if customer- supplied, must meet EIA-232D requirements	6323741	2936	3	10
E	Printer/Terminal Interposer-232	58F2861	2937		.16
EE	BNS Terminator	6246330	N/A		

F	Tablet cable, supplied with tablet	6247480	2811	2.1	7
FF	Y Cable from 5085 Graphics Processor to system unit	6247042	N/A	5	16.4
G	Keyboard cable, supplied with keyboard	N/A	N/A	3	10
GG	Y Cable from 5086 Graphics Processor to system unit	6247041			
H	Mouse cable, supplied with mouse	N/A	N/A	2.75	9
HH	LPFK or Dials Attachment Cable (for attaching to serial EIA-232D port)	39F8228	4060	1.8	6
J	Multiport Interface Cable	00F5524	2995	3	10
JJ	Power Cable for 6094, attaches to display	39F8302	4061	1.8	6
K	Terminal Cable EIA-422A	30F8966	2945	20	65.5
KK	Serial Optical Channel Converter Cable	46F2440	2866	6	20
KK	Serial Optical Channel Converter Cable	46F2441	2867	10	33
KK	Serial Optical Channel Converter Cable	46F2442	2868	20	65.5
KK	Serial Optical Channel Converter Cable	46F2443	2869	60	197
KK	Serial Optical Channel Converter Cable	46F2444	2870	100	328
L	16-Port Interface Cable-EIA-232	53F3311	2996	3	10
LL1	IBM-supplied cables	92F3713	N/A	N/A	N/A
M	16-Port Interface Cable-EIA-422A	53F3381	2997	3	10
MI	System/370 Block Multiplexer Channel Adapter Cable	92F6697	2757	1.8	6
MM	Ethernet 10Base2 Transceiver	02G7435	4223	1	3
MM	Ethernet 10BaseT Transceiver	02G7429	4224	1	3
N	64-Port Async Controller Cable (Included with 16-Port Async Concentrator)	N/A	N/A	7.6	25
N	128-Port Async Controller Cable 8-wire	43G0936	8132	0.23	0.75
NA	128-Port Async Controller Cable 8-wire	43G0937	8131	4.57	15
NB	128-Port Async Controller Cable 8-wire	43G0937	8131	4.57	15

NC	128-Port Async Controller Cable 8-wire	43G0936	8132	0.23	0.75
ND	128-Port Async Controller Cable 4-wire customer supplied	N/A	N/A		
NE	128-Port Async Controller EIA-232 Modem Cable, system, customer supplied	N/A	N/A		
NF	128-Port Async Controller EIA-232 Modem Cable, device, customer supplied	N/A	N/A		
NG	128-Port Async Controller EIA-422 Modem Cable, system, customer supplied	N/A	N/A		
NH	128-Port Async Controller EIA-422 Modem Cable, device, customer supplied	N/A	N/A		
NK	RJ45 to DB25 Converter Cables	43G0935	8133	.61	2
NL	Cable directly wires RJ45 to a DB25 connector for attachment to a terminal or printer; customer-supplied, must meet EIA-232D electrical requirements				
NM	Cable directly wires RJ45 to a DB25 connector for attachment to a modem; customer-supplied, must meet EIA-232D electrical requirements				
NN	System/370 Block Multiplexer Channel Adapter Assembly	N/A	2758	N/A	N/A
P	RJ45-to-DB25 Converter Cable (64-Port)	59F3432	6402	0.457	1
P	RJ45-to-DB25 Converter Cable (128-Port)	43G0935	8133	0.61	2
PA	V.24/EIA-232 36-pin to DB-25 male	93H5263	2951		
PB	V.35 36-pin to 34-pin male	93H5264	2952		
PC	V.36/EIA-449 36-pin to 37-pin male	93H5265	2953		
PD	X.21 36-pin to DB-15 male	93H5267	2954		
Q	X.25 Attachment Cable X.21	07F3151	2965	3	10
		53F3926	2976	6	20
QQ	Serial Link Cable	44F5510		3	10
		44F5511		10	33
R	X.25 Attachment Cable V.24	07F3161	2966	3	10
		53F3927	2977	6	20

RA	Serial to Serial Port Drawer/Drawer	88G4853	3124	3.7	
RB	Serial to Serial Port Rack/RACK	88G4854	3125	8	
RR	Cable to 9291/9295 assembly, provided with VPACK	34F0873	N/A	2	6.6
S	X.25 Attachment Cable V.35	07F3171	2967	3	10
		53F3928	2978	6	20
SS	SCSI Ctrl External 7015	00G1278	3120	4.75	15.5
SS	SCSI Controller Cable	31F4221	2832	1.5	5
SS	SCSI Controller Cable 9334-500	07G5127	2917	1.5	5
SS	SCSI Controller Cable 9334-500	07G5143	2919	2.4	7.9
SS	Integrated SCSI Controller Cable	32G0397	2833	1.5	5
T	4-Port Multiprotocol Interface Cable	40F9897	2705	3	10
T1	4/8-Port 232/422 Multiport/2 Cable	00F5524	7102	3	10
T2	6-Port Sync Multiport/2 Cable	15F8867	7104	3	10
T3	6-Port V.35 Portmaster Cable	15F8867	7104	3	10
T4	8-Port 232/422 Portmaster Cable	33F8962	7104	3	10
T5	6-Port X.21 Portmaster Cable	04G5501	7104	3	10
U	Multiprotocol Attachment Cable-V.35	71F0162	2702	2	6.5
	Multipro.Adapter Cable V.35 FRANCE only	71F0162	2703		
UU	7235 Signal Cable, used to attach system unit to 7235	74F3102	N/A	2.0	6.5
V	Multiprotocol Attachment Cable-EIA-232/V.24 (marked 6423742)	71F0165	2706	3	10
VV	SCSI Device-to-Device Cable	31F4222	3130	0.66	2.2
W	Multiprotocol Attachment Cable-X.21	71F0164	2704	3	10
WW	POWER Gt1 Display Adapter Cable (contains an integral toroid asm)	58F2902	4217	2	6
Y	Token-Ring Cable (provided with adapter)	N/A	N/A	3	10
				6	20
ZZ	Passthrough Terminator Cable	00G0959	2915	1.5	5

ZZ	Passthrough Terminator Cable 9334-500	70F9171	2916	1.5	5
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AB 09G3539 AE: 15pin 5BNC... 09G3588
 AD 09G3589 CC: 3Coax 3BNC... 58F2903

Multibyte Character Printer Cable

4208,5327,5572,5575,5577,5587	81X7875	2.4	7.9
4208,5327,5572,5575,5577,5587	09F5544	5.0	16.4
4216 Model 510 Cable	56F7854		

01/22/99

Cable X-Reference: Graphics Adapter vs Display

DVI Group

- [GXT4000P](#)
- [GXT4500P](#)
- [GXT6000P](#)
- [GXT6500P](#)

3W3 Group

- [Skyway](#)
- [GT3, GT4](#)

13W3 Group

- [GT1X](#)
- [GXT100](#)
- [GXT150](#)
- [GXT150L](#)
- [GXT155L](#)
- [GXT150M](#)
- [GXT150P](#)
- [GXT500](#)
- [GXT500D](#)
- [GXT500P](#)
- [GXT550P](#)
- [GXT1000](#)
- [7250](#)

SubD 15 HD Group

- [E15, H10, S15](#)
- [GT1](#)
- [GXT110P](#)
- [GXT120P](#)
- [GXT130P](#)
- [GXT135P](#)
- [GXT250P](#)
- [GXT255P](#)
- [GXT300P](#)
- [GXT800M](#)
- [GXT800P](#)
- [GXT2000P](#)
- [GXT3000P](#)

Cable Information

- [FC vs PN](#)
- [PN vs FC](#)
- [Connectors](#)

Display Information

- [Displays FRU PN](#)
- [PC CO. Products](#)
- [Display Specifications](#)
- [Foot Notes](#)
- [Disclaimer](#)

Skyway, Gt3, Gt4

Adapters with a 3-Coax D-Shell Connector (3W3)



Top

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	58F2903 No FC	P-Dis 16	58F2903 No FC	P50	N / S	P200	40H2934 #4236
6091-16	58F2903 No FC	P-Dis 17	58F2903 No FC	P70	40H2934 #4236	P201	40H2934 #4236
6091-19	58F2903 No FC	P-Dis 19	58F2903 No FC	P72	N / S	P202 (2)	40H2934 #4236
6091-19i	58F2903 No FC	P-Dis 20	58F2903 No FC	P76	N / S	P260	N / S
6091-23	58F2903 No FC	G52	N / S	P77	N / S	P275	N / S
9516	N / S			P92 (2)	40H2934 #4236		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
ships with 15-pin D-shell

No FC = No feature code available

These adapters are also known as:

Gt3 = Lega, Gt4 = Ped

Gt1x

Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3)  [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	09G3539 #4214	P-Dis 16	09G3539 #4214	P50 (1)	52G3255 #4213 *	P200	96G2689 #4234
6091-16	09G3539 #4214	P-Dis 17	09G3539 #4214	P70	96G2689 #4234	P201	96G2689 #4234
6091-19	09G3539 #4214	P-Dis 19	09G3539 #4214	P72 (1)	52G3255 #4213 *	P202 (2)	96G2689 #4234

6091-19i	09G3539 #4214	P-Dis 20	09G3539 #4214	P76	N / S	P260	N / S
6091-23	09G3539 #4214	G52	N / S	P77	N / S	P275	N / S
9516	N / S			P92 (2)	96G2689 #4234		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
ships with 15-pin D-shell

* = A 96G2693 ID bit dongle is required in addition to any specified cable(s)

This adapter is also known as:

WGA

GXT100

Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3) [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	52G3255 #4213 *	P200	96G2689 #4234
6091-16	N / S	P-Dis 17	09G3539 #4214	P70	96G2689 #4234	P201	96G2689 #4234
6091-19	N / S	P-Dis 19	N / S	P72 (1)	52G3255 #4213 *	P202 (2)	96G2689 #4234
6091-19i	N / S	P-Dis 20	09G3539 #4214	P76	N / S	P260	N / S
6091-23	N / S	G52	N / S	P77	N / S	P275	N / S
9516	N / S			P92 (2)	96G2689 #4234		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

- (1) = Captured 15-pin D-shell cable
 (2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
 ships with 15-pin D-shell
 * = A 96G2693 ID bit dongle is required in addition to any specified cable(s)

This adapter is also known as:

BabyBlue

GXT150, 150L, 150M, 150P, 155L

Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3)  [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	09G3539 #4214	P-Dis 16	09G3539 #4214	P50 (1)	52G3255 #4213 *	P200	96G2689 #4234
6091-16	09G3539 #4214	P-Dis 17	09G3539 #4214	P70	96G2689 #4234	P201	96G2689 #4234
6091-19	09G3539 #4214	P-Dis 19	09G3539 #4214	P72 (1)	52G3255 #4213 \$	P202 (2)	96G2689 #4234
6091-19i	09G3539 #4214	P-Dis 20	09G3539 #4214	P76 (1) (3)	52G3255 #4213 \$	P260 (2) (3)	52G3255 #4213 \$
6091-23	09G3539 #4214	G52	N / S	P77	N / S	P275	N / S
9516	09G3539 #4214			P92 (2)	96G2689 #4234		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input capability

(3) = supported on GXT150M only

\$ = An ID bit adapter (PN 21L4522) will be required

* = A 96G2693 ID bit dongle is required in addition to any specified cable(s)

These adapters are also known as:

GXT150, L, P, GXT155L = BabyBlue, GXT150M = Neptune

GXT500, GXT500D**Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3)**  **Top**

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	09G3539 #4214	P-Dis 16	09G3541 #4219	P50 (1)	52G3255 #4213 *	P200	96G2689 #4234
6091-16	09G3541 #4219	P-Dis 17	09G3541 #4219	P70	96G2689 #4234	P201	96G2689 #4234
6091-19	09G3539 #4214	P-Dis 19	09G3541 #4219	P72 (1)	52G3255 #4213 *	P202 (2)	52G3255 #4213
6091-19i	09G3541 #4219	P-Dis 20	09G3541 #4219	P76	N / S	P260	N / S
6091-23	09G3539 #4214	G52	N / S	P77	N / S	P275	N / S
9516	N / S			P92 (2)	52G3255 #4213		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
ships with 15-pin D-shell

* = A 96G2693 ID bit dongle is required in addition to any specified cable(s)

This adapter is also known as:

Magenta

GXT500P, GXT550P**Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3)**  **Top**

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	09G3539 #4214	P-Dis 16	09G3541 #4219	P50 (1)	52G3255 #4213	P200	96G2157 #4240

6091-16	09G3541 #4219	P-Dis 17	09G3541 #4219	P70	96G2157 #4240	P201	60H7742 #4241
6091-19	09G3539 #4214	P-Dis 19	09G3541 #4219	P72 (1)	52G3255 #4213	P202 (2)	52G3255 #4213
6091-19i	09G3541 #4219	P-Dis 20	09G3541 #4219	P76 (1)	52G3255 #4213	P260 (2)	52G3255 #4213
6091-23	09G3539 #4214	G52	N / S	P77	N / S	P275	N / S
9516	09G3539 #4214			P92 (2)	52G3255 #4213		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input capability

This adapter is also known as:

Mint

GXT1000 ^= 7250

Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3)  [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	09G3539 #4214	P-Dis 16	09G3862 #3251	P50	N / S	P200	96G2689 #4234
6091-16	09G3862 #3251	P-Dis 17	88G4483 #3253	P70	96G2689 #4234	P201	96G2689 #4234
6091-19	09G3539 #4214	P-Dis 19	09G3541 #3252	P72	N / S	P202 (2)	96G2689 #4234
6091-19i	09G3541 #3252	P-Dis 20	88G4483 #3253	P76	N / S	P260	N / S
6091-23	09G3539 #4214	G52	N / S	P77	N / S	P275	N / S
9516	09G3539 #4214			P92 (2)	96G2689 #4234		

N/S = This adapter/display combination is not supported
 Display = The appropriate cable is included with the display
 (1) = Captured 15-pin D-shell cable
 (2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
 ships with 15-pin D-shell

This adapter is also known as:

Ruby

7250 ^= GXT1000

Adapter with a 3-Coax + ID Pins D-Shell Connector (13W3)  [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	09G3539 #4214	P-Dis 16	09G3862 #3251	P50	N / S	P200	96G2689 #4234
6091-16	09G3862 #3251	P-Dis 17	88G4483 #3253 @	P70	96G2689 #4234	P201	96G2689 #4234
6091-19	09G3539 #4214	P-Dis 19	09G3541 #3252 @	P72	N / S	P202 (2)	96G2689 #4234
6091-19i	09G3541 #3252 @	P-Dis 20	88G4483 #3253 @	P76	N / S	P260	N / S
6091-23	09G3539 #4214	G52	N / S	P77	N / S	P275	N / S
9516	09G3539 #3250 @			P92 (2)	96G2689 #4234		

N/S = This adapter/display combination is not supported
 Display = The appropriate cable is included with the display
 @ = Order under machine type 7250
 (1) = Captured 15-pin D-shell cable
 (2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
 ships with 15-pin D-shell

This adapter is also known as:

Ruby

E15, H10, S15**Adapter with a SubD 15 HD D-Shell Connector** [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	Display	P200	96G2156 #4238
6091-16	N / S	P-Dis 17	58F2901 #4217	P70	96G2156 #4238	P201	96G1712 #4237
6091-19	N / S	P-Dis 19	N / S	P72 (1)	Display	P202 (2)	Display
6091-19i	N / S	P-Dis 20	58F2901 #4217	P76	N / S	P260	N / S
6091-23	N / S	G52 (1)	Display	P77	N / S	P275	N / S
9516	58F2901 #4217			P92 (2)	Display		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
ships with 15-pin D-shell

GXT110P, GXT120P, GXT130P**Adapter with a SubD 15 HD D-Shell Connector** [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	Display	P200	96G2156 #4238
6091-16	N / S	P-Dis 17	58F2901 #4217	P70	96G2156 #4238	P201	96G1712 #4237
6091-19	N / S	P-Dis 19	N / S	P72 (1)	Display	P202 (2)	Display

6091-19i	N / S	P-Dis 20	58F2901 #4217	P76 (1)	Display	P260 (2)	Display
6091-23	N / S	G52 (1)	Display	P77 (1)	Display *	P275 (2)	Display *
9516	58F2901 #4217			P92 (2)	Display		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input capability

* = GXT130P only

These adapters are also known as:

GXT110P = Brushy

GXT120P = Sagebrush

GXT130P = Maui

GXT135P

Adapter with a SubD 15 HD D-Shell Connector [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	N / S	P200	96G2156 #4238
6091-16	N / S	P-Dis 17	N / S	P70	96G2156 #4238	P201	96G1712 #4237
6091-19	N / S	P-Dis 19	N / S	P72 (1)	Display	P202 (2)	Display
6091-19i	N / S	P-Dis 20	N / S	P76 (1)	Display	P260 (2)	Display
6091-23	N / S	G52 (1)	N / S	P77 (1)	Display	P275 (2)	Display
9516	58F2901 #4217			P92 (2)	Display	T210 (3)	Display

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input capability

(3) = Analog only

This adapter is also known as:

GXT135P = Lanai

Gt1**Adapter with a SubD 15 HD D-Shell Connector**  **Top**

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	58F2901 #4217	P-Dis 16	58F2901 #4217	P50 (1)	Display (3)	P200	96G2688 #4235
6091-16	58F2901 #4217	P-Dis 17	58F2901 #4217	P70	96G2688 #4235	P201	96G1712 #4237
6091-19	58F2901 #4217	P-Dis 19	58F2901 #4217	P72	N / S	P202	N / S
6091-19i	58F2901 #4217	P-Dis 20	58F2901 #4217	P76	N / S	P260	N / S
6091-23	58F2901 #4217	G52	N / S	P77	N / S	P275	N / S
9516	N / S			P92	N / S		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input 15-pin D-shell and 13W3 soft switchable via screen menu;
ships with 15-pin D-shell

(3) = A 96G2693 ID bit dongle is required in addition to any specified cable(s)

This adapter is also known as:

SGA

GXT250P, GXT255P, GXT800M, GXT800P**Adapter with a SubD 15 HD D-Shell Connector**  **Top**

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	39H8682 #4239	P-Dis 16	39H8682 #4239	P50 (1)	Display	P200	96G2156 #4238
6091-16	39H8682 #4239	P-Dis 17	39H8682 #4239	P70	96G2156 #4238	P201	96G1712 #4237
6091-19	39H8682 #4239	P-Dis 19	39H8682 #4239	P72 (1)	Display	P202 (2)	Display
6091-19i	39H8682 #4239	P-Dis 20	39H8682 #4239	P76 (1)	Display	P260 (2)	Display
6091-23	39H8682 #4239	G52	N / S	P77	N / S	P275 (2)	N / S
9516	58F2901 #4217			P92 (2)	Display		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input capability

These adapters are also known as:

GXT250P, 255P = SkyBlue, GXT800M, 800P = SuperMint

GXT2000P, GXT3000P

Adapter with a SubD 15 HD D-Shell Connector  [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	Display	P200	96G2156 #4238
6091-16	N / S	P-Dis 17	58F2901 #4217 *	P70	96G2156 #4238	P201	96G1712 #4237
6091-19	N / S	P-Dis 19	58F2901 #4217 *	P72 (1)	Display	P202 (2)	Display
6091-19i	58F2901 #4217 *	P-Dis 20	58F2901 #4217 *	P76 (1)	Display	P260 (2)	Display

6091-23	N / S	G52	N / S	P77 (1)	Display	P275 (2)	Display
9516	58F2901 #4217			P92 (2)	Display		

N/S = This adapter/display combination is not supported
 Display = The appropriate cable is included with the display
 (1) = Captured 15-pin D-shell cable
 (2) = Dual input capability
 * = FC #4239 (3 BNC cable) is recommended on GXT2000
 FC #4217 is a 5 BNC cable (external H and V sync)

These adapter are also known as:

GXT2000P = Mirage, GXT3000P = Sierra

GXT4000P, 4500P, GXT6000P, 6500P

Adapter with a DVI Connector  [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	N / S	P200	96G2156 #4238 *
6091-16	N / S	P-Dis 17	N / S	P70	96G2156 #4238 *	P201	96G1712 #4237 *
6091-19	N / S	P-Dis 19	N / S	P72 (1)	Display *	P202 (2)	Display *
6091-19i	N / S	P-Dis 20	N / S	P76 (1)	Display *	P260 (2)	Display *
6091-23	N / S	G52	N / S	P77 (1)	Display *	P275 (2)	Display *
9516	58F2901 #4217 *			P92 (2)	Display *	T210 (3)	Display

N/S = This adapter/display combination is not supported
 Display = The appropriate cable is included with the display
 * = 15 pin 'D' to DVI dongle ships with adapter (04N7533)
 (1) = Captured 15-pin D-shell cable
 (2) = Dual input capability
 (3) = GXT4500P and 6500P only

These adapters are also known as:

GXT4000P = Sonora Lite, GXT4500P = Mojave Lite

GXT6000P = Sonora, GXT6500P = Mojave

GXT300P

Adapter with a SubD 15 HD D-Shell Connector [Top](#)

Display	PN / FC	Display	PN / FC	Display	PN / FC	Display	PN / FC
5081	N / S	P-Dis 16	N / S	P50 (1)	N / S	P200	96G2156 #4238
6091-16	N / S	P-Dis 17	58F2901 #4217	P70	96G2156 #4238	P201	96G1712 #4237
6091-19	N / S	P-Dis 19	N / S	P72 (1)	Display	P202 (2)	Display
6091-19i	N / S	P-Dis 20	58F2901 #4217	P76 (1)	Display	P260 (2)	Display
6091-23	N / S	G52	N / S	P77 (1)	Display	P275 (2)	Display
9516	58F2901 #4217			P92 (2)	Display		

N/S = This adapter/display combination is not supported

Display = The appropriate cable is included with the display

(1) = Captured 15-pin D-shell cable

(2) = Dual input capability

This adapter is also known as:

GXT300P = Mirage 2D

Display Specifications

[Top](#)

Display	Horz. freq.	Max. Resolution	Modes	Interface
T210	31 - 120 Khz	2048 x 1536 @ 60 Hz	Muti-sync	DVI connector and 15 Pin 'D'

G52	30 - 69 Khz	1024 x 768 @ 85 Hz	Muti-sync	15 pin 'D' cable
G96	30 - 95 Khz	1600 x 1200 @ 75 Hz	Muti-sync	15 pin 'D' cable
P50	30 - 69 Khz	1024 x 768 @ 85 Hz	Muti-sync	15 pin 'D' cable
P70	30 - 82 Khz 30 - 85 Khz	1280 x 1024 @ 77 Hz 1280 x 1024 @ 77 Hz	Muti-sync	13W3 connector
P72	30 - 85 Khz	1280 x 1024 @ 77 Hz	Muti-sync	15 pin 'D' cable
P76	30 - 94 Khz	1600 x 1200 @ 75 Hz	Muti-sync	15 pin 'D' cable
P77	30 - 94 Khz	1600 x 1200 @ 75 Hz	Muti-sync	15 pin 'D' cable
P92	30 - 100 Khz	1600 x 1200 @ 70 Hz	Muti-sync	13W3 connector and 15 pin 'D'
P200	30 - 90 Khz 30 - 96 Khz	1600 x 1280 @ 60 Hz 1600 x 1280 @ 66 Hz	Muti-sync	13W3 connector
P201	30 - 107 Khz	1600 x 1280 @ 77 Hz	Muti-sync	13W3 connector
P202	30 - 110 Khz	1600 x 1280 @ 85 Hz	Muti-sync	13W3 connector and 15 Pin 'D'
P260	30 - 121 Khz	1920 x 1440 @ 75 Hz	Muti-sync	DVI connector and 15 Pin 'D'
P275	30 - 130 Khz	2048 x 1536 @ 75 Hz	Muti-sync	DVI connector and 15 Pin 'D'
PWdisplay 17	30 - 82 Khz	1280 x 1024 @ 77 Hz	Muti-sync	5 BNC connectors
PWdisplay 20	30 - 82 Khz	1600 x 1024 @ 60 Hz	Muti-sync	5 BNC connectors
6091-016	61 - 82 Khz	1280 x 1024 @ 77 Hz	3 modes	5 BNC connectors
6091-019	64 - 71 Khz	1280 x 1024 @ 67 Hz	2 modes	5 BNC connectors
6091-019i	64 - 82 Khz	1280 x 1024 @ 77 Hz	4 modes	5 BNC connectors
6091-023	64 Khz	1280 x 1024 @ 60 Hz	1 mode	5 BNC connectors

Displays FRU PN Top

The following are FRU part numbers for displays currently available as features on RISC/6000 system:

Display Type	Feature and FRU Part Number
P77 (NH black)	FC 3627 FRU = 22P6372
P77 (SH black)	FC 3627 FRU = 22P6370
P77 (NH white)	FC 3629 FRU = 22P6371
P77 (SH white)	FC 3629 FRU = 22P6369
P275 (NH black)	FC 3628 FRU = 22P6429
P275 (SH black)	FC 3628 FRU = 22P6431
P275 (NH white)	FC 3630 FRU = 22P6428
P275 (SH white)	FC 3630 FRU = 22P6430
T210 (WW black)	FC 3635 FRU = 22P4530

PC CO. Display Products [Top](#)

The following are tested displays NOT available via the RISC/6000 ordering system:

Display Type	Adapters	Max. Display Resolution
6549-xAN (G96 19" CRT)	GXT 130P, 250P, 255P, 550P, 800P, 2000P, 3000P	1600 x 1200 @ 75 Hz
9511-Axx (T54A 15" TFT)	GXT 130P, 135P	1024 x 768 @ 75 Hz
9511-Hxx (T54H 15" TFT)	GXT 130P, 135P	1024 x 768 @ 75 Hz
9511-Axx (T540A 15" TFT)	GXT 130P, 135P	1024 x 768 @ 75 Hz
9513-Axx (T55A 15" TFT)	GXT 120P	1024 x 768 @ 75 Hz
6656-Hxx (T560H 15" TFT)	GXT 130P, 135P	1024 x 768 @ 75 Hz
9493-Axx (T56A 15" TFT)	GXT 120P, 130P, 135P	1024 x 768 @ 85 Hz
6658-Hxx (T84H 18" TFT)	GXT 130P, 135P, 2000P, 3000P, 4500P, 6500P	1280 x 1024 @ 75 Hz
9519-Axx (T85A 18" TFT)	GXT 130P, 135P, 2000P, 3000P, 4500P, 6500P	1280 x 1024 @ 76 Hz
9497-Axx (T86A 18" TFT)	GXT 130P, 135P, 300P, 2000P, 3000P, 4500P, 6500P	1280 x 1024 @ 76 Hz
9494-Hxx (T860H 18" TFT)	GXT 130P, 135P, 4500P, 6500P	1280 x 1024 @ 76 Hz

All above TFT displays are supported via analog, unless especified.

Additional information on available PC CO. Displays [PC CO. Link](#)

Supported Resolutions [Top](#)

Display	Adapter	Resolution
6659 T210	GXT135P	Analog 2048 x 1536 @ 75 Hz 1600 x 1200 @ 85 Hz 1280 x 1024 @ 85 Hz 1024 x 768 @ 85 Hz
		Digital 2048 x 1536 @ 30 Hz 1600 x 1200 @ 60 Hz 1280 x 1024 @ 60 Hz 1024 x 768 @ 60 Hz
	GXT4500P GXT6500P	Analog 2048 x 1536 @ 60 Hz 1600 x 1200 @ 85 Hz 1280 x 1024 @ 85 Hz 1024 x 768 @ 85 Hz
		Digital 2048 x 1536 @ 30 Hz 1600 x 1200 @ 60 Hz 1280 x 1024 @ 60 Hz 1024 x 768 @ 60 Hz

Feature Codes vs Cable Part numbers [Top](#)

Feature	Cable	Standard use.	Adapter&n
sp; Display	ID Bits		
Code	P/N		Conn.
onn.	3210		

3250/4214	09G3539	GXT1000/6091-019				
13W3	3 BNC	0100				
3251	09G3862	GXT1000/6091-016	13W3	3 BNC	V100	
3252/4219	09G3541	GXT1000/6091-19i	13W3	3 BNC	V110	
3253	88G4483	GXT1000/Multi-scanning	13W3	3 BNC	1010	
4213	52G3255	13W3 adapt for 15-D mon	13W3	15-D(F)	----	
4214/3250	09G3539	GXT1000/6091-019	13W3	3 BNC	0100	
4217	58F2901	15-D/6091-019	15-D	5 BNC	0100	
4219/3252	09G3541	GXT1000/6091-19i	13W3	3 BNC	V110	
4227	51G8563	13W3 Adapt/SUN Displays	13W3	13W3	SUN only	
4228	09G3588	15-D/1091-051 only	15-D	5 BNC	V111	
4229	09G3589	13W3/1091-051 only	13W3	5 BNC	V111	
4234 (B)	08L0551	P Series Displays ID	13W3	13W3	1010	
4234 (W)	96G2689	P Series Displays ID	13W3	13W3	1010	
4235	96G2688	P Series Displays ID	15-D	13W3	1010	
4236	40H2934	P-Series Mon to GT3/4	3W3	13W3	----	
4237	96G1712	P201 only DDC/ID switch	13W3	15-D	DDC/1010*	
4238	96G2156	P-Series Displays DDC	13W3	15-D	DDC	
4239	39H8682	15-D to 3 BNC ID	15-D	3 BNC	0100	
4240 (B)	08L0537	P series Displays DDC	13W3	13W3	DDC	
4240 (W)	96G2157	P series Displays DDC	13W3	13W3	DDC	
4241	60H7752	P201 only DDC/ID switch	13W3	13W3	DDC	
4242	07L9633	6 ft. cable extension	15-D	15-D	----	
none	96G2693	P50 ID Bit Dongle	15-D	15-D	1010	
none	11H4003	7091-7S1 15-D	13W3	15-D	1010	
none	11H4004	7091-7S1 13W3	13W3	13W3	1010	
none	21L4522	P72 / GXT150M ID Dongle	15-D	15-D	1010	
none	58F2903	ships w. GT3/4	3W3	3 BNC	----	
none	51G7826	13W3 adapt for 15-D mon	13W3	15-D(F)	----	
none (W)	61H0226	P-Series cable	15-D	15-D	----	
none (B)	61H0227	P-Series cable	15-D	15-D	----	
none (W)	22P4542	P260/P275 DVI cable	15-D	DVI	----	
none (B)	22P4543	P260/P275 DVI cable	15-D	DVI	----	
none (W)	04N7528	P260 DVI cable	DVI	DVI	----	
none (B)	04N7529	P260 DVI cable	DVI	DVI	----	
none	04N7532	adapter DVI to 15-D	15-D	DVI (F)	----	
none	04N7533	adapter 15-D to DVI	DVI	15-D(F)	----	
none	06P3812	T210 cable 15-D to DVI	DVI	15-D(F)	----	

* = Includes logic in cable, powered by P201. ONLY for P201
(F) = Female socket for adapter cable
(B) = black cable vs (W) = white cable

Cable Part numbers vs Feature Codes



Top

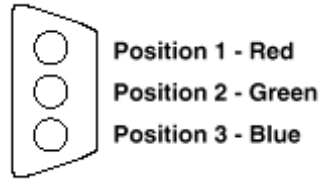
Cable Display P/N bsp;	Feature ID Bits Code 3210	Standard use.	Adapter Conn.	D Conn.&
22P4542	---- (W)	P260/P275 DVI cable	15-D	
	DVI ----			
22P4543	---- (B)	P260/P275 DVI cable	15-D	DVI ----
04N7528	---- (W)	P260 DVI cable	DVI	DVI ----
04N7529	---- (B)	P260 DVI cable	DVI	DVI ----
04N7532	----	adapter DVI to 15-D	15-D	DVI (F) ----
04N7533	----	adapter 15-D to DVI	DVI	15-D(F) ----
06P3812	----	T210 cable 15-D to DVI	DVI	15-D(F) ----
07L9633	4242	6 ft. cable extension	15-D	15-D ----
08L0537	4240 (B)	P series Displays DDC	13W3	13W3 DDC
08L0551	4234 (B)	P Series Displays ID	13W3	13W3 1010
09G3539	4214/3250	GXT1000/6091-019	13W3	3 BNC 0100
09G3541	4219/3252	GXT1000/6091-19i	13W3	3 BNC V110
09G3588	4228	15-D/1091-051 only	15-D	5 BNC V111
09G3589	4229	13W3/1091-051 only	13W3	5 BNC V111
09G3862	3251	GXT1000/6091-016	13W3	3 BNC V100
11H4003	----	7091-7S1 15-D	15-D	13W3 1010
11H4004	----	7091-7S1 13W3	13W3	13W3 1010
21L4522	----	P72 / GXT150M ID Dongle	15-D	15-D 1010
39H8682	4239	15-D to 3 BNC ID	15-D	3 BNC 0100
40H2934	4236	P-Series Mon to GT3/4	3W3	13W3 ----
51G7826	----	13W3 adapt for 15-D mon	13W3	15-D(F) ----
51G8563	4227	13W3 Adapt/SUN Displays	13W3	13W3 SUN only
52G3255	4213	13W3 adapt for 15-D mon	13W3	15-D(F) ----
52G3282	FRU	13W3 adapt for 15-D mon	13W3	15-D(F) ----
58F2901	4217	15-D/6091-019	15-D	5 BNC 0100
58F2903	----	ships w. GT3/4	3W3	3 BNC ----
60H7742	4241	P201 only DDC/ID switch	13W3	13W3 DDC/1010*
61H0226	---- (W)	P-Series cable	15-D	15-D ----
61H0227	---- (B)	P-Series cable	15-D	15-D ----
88G4483	3253	GXT1000/Multi-scanning	13W3	3 BNC 1010
96G1712	4237	P201 only DDC/ID switch	15-D	13W3 DDC/1010*
96G2156	4238	P-Series Displays DDC	13W3	15-D DDC

96G2157	4240	(W)	P series Displays DDC	13W3	13W3	DDC
96G2688	4235		P Series Displays ID	13W3	15-D	1010
96G2689	4234	(W)	P Series Displays ID	13W3	13W3	1010
96G2693	----		P50 ID Bit Dongle	15-D	15-D	1010

* = Includes logic in cable, powered by P201. ONLY for P201
 (F) = Female socket for adapter cable
 (B) = black cable vs (W) = white cable

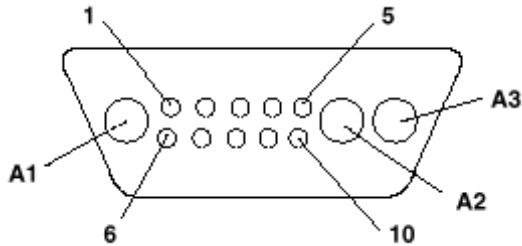
Connector Types  **Top**

3W3



- 1 = Red
- 2 = Green
- 3 = Blue

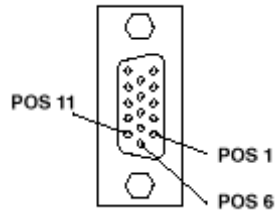
13W3



- A1 = Red
- A2 = Green
- A3 = Blue
- *1 = ID 2
- *2 = ID 3
- 3 = N / C
- 4 = GND
- 5 = H-SYNC
- *6 = ID 0
- *7 = ID 1
- 8 = N / C
- 9 = V-SYNC
- 10 = GND

* under DDC pins 1 and 6 are open and pins
 7 = SDA (data) pin 2 = SCL (clock)

SubD 15 HD



- 1 = Red
 - 2 = Green
 - 3 = Blue
 - *4 = ID 2
 - 5 = Self-Test
 - 6 = Red Return
 - 7 = Green Return
 - 8 = Blue Return
 - 9 = No Pin
 - 10 = SYNC Return Common
 - *11 = ID 0
 - *12 = ID 1
 - 13 = H-SYNC
 - 14 = V-SYNC
 - *15 = ID 3
- * under DDC pins 4 and 11 are open and pins
 12 = SDA (data) pin 15 = SCL (clock)

Analog DVI

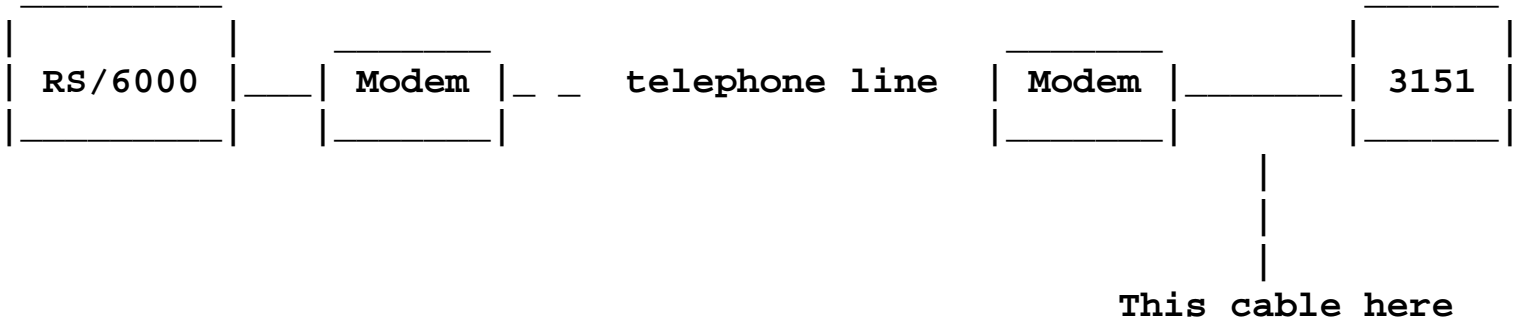
- 1 = Data2-
- 2 = Data2+
- 3 = Data2/4 Shld
- 4 = Data4-
- 5 = Data4+
- 6 = DDC Clock
- 7 = DDC Data
- 8 = V sync
- C1 = Analog RED
- C4 = H sync
- 9 = Data1-
- 10 = Data+
- 11 = Data1/3 Shld
- 12 = Data3-
- 13 = Data3+
- 14 = +5 V Power
- 15 = sync Ground
- 16 = Hot Plug Detect
- 17 = Data0-
- 18 = Data0+
- 19 = Data0/5 Shld
- 20 = Data5-
- 21 = Data5+
- 22 = Clock Shld
- 23 = Clock+
- 24 = Clock-
- C2 = Analog GREEN
- C3 = Analog BLUE
- C5 = RGB Ground

Additional information on Digital Visual Interface
[DDWG Link](#)

Cable 3151-to-modem (remote terminal)

male-male

P/N6343332

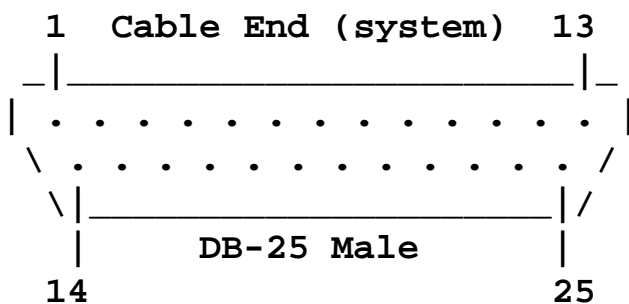


Cable-A Parallel - 10ft FFC 251

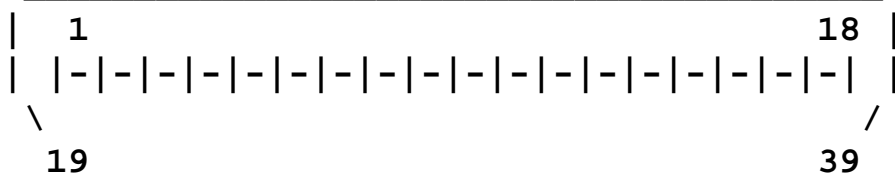
PN8529214 (1525612) 6.9ft

PN09F5544

16.4ft



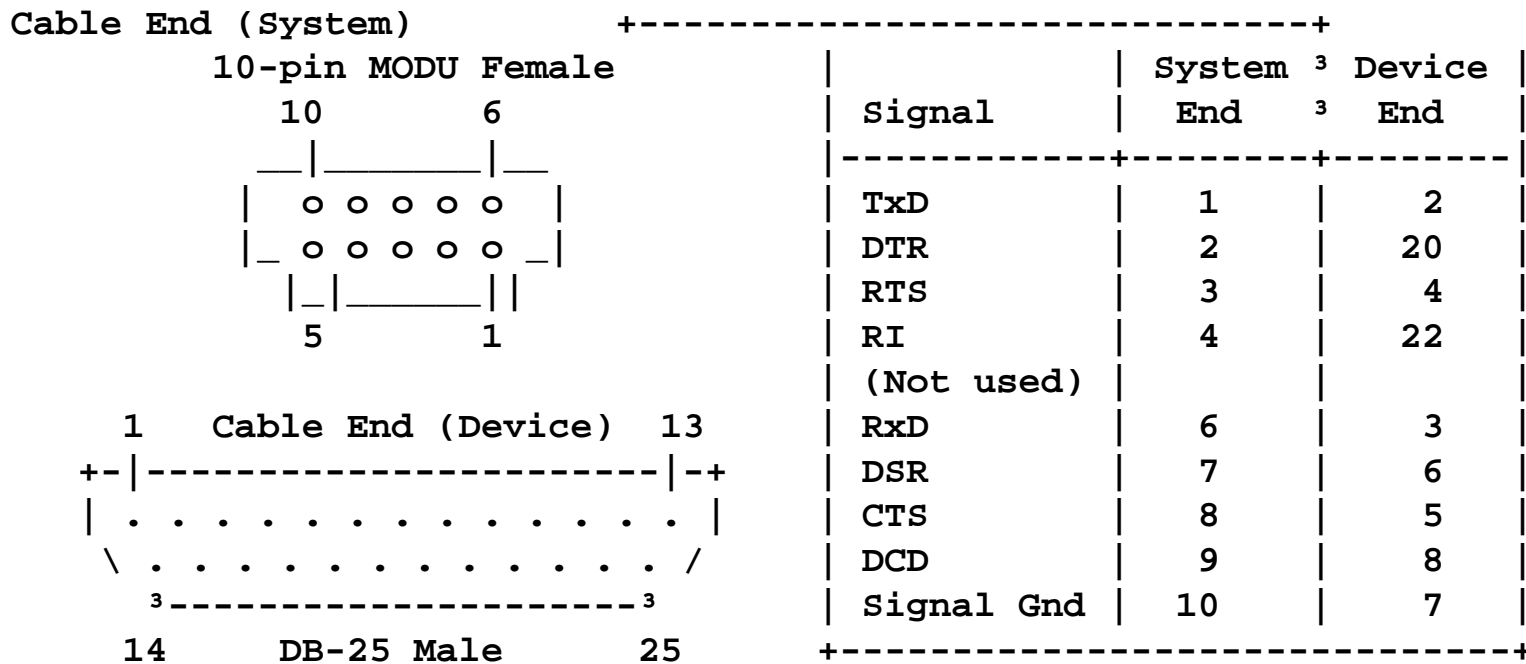
Cable End (printer)



(Centronics type)

Signal	Syst	Dir	Prt
Strobe	1	---->	1
Data 0-7	2-9	---->	2-9
ACK	10	<---	10
Busy	11	<---	11
PE	12	<---	12
Select	13	<---	13
Autofeed	14	---->	14
Error	15	<---	32
INIT	16	---->	31
Select In	17		36
Ground	18-25		19-30

Cable-B Adapter Modu-to-DB25 S1/S2 #N/A PN00G0943 - .33ft FFC 252



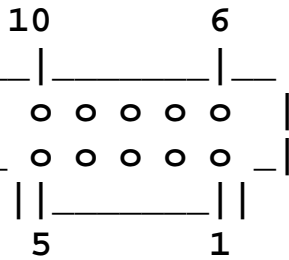
Cable-C

Adapter Modu-to-DB25 for 7015 Serial Ports #N/A

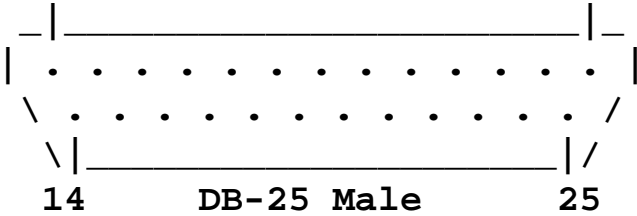
PN81F8977 - 10ft(3m) FFC 252

Cable End (System)

10-pin MODU Female



1 Cable End (Device) 13

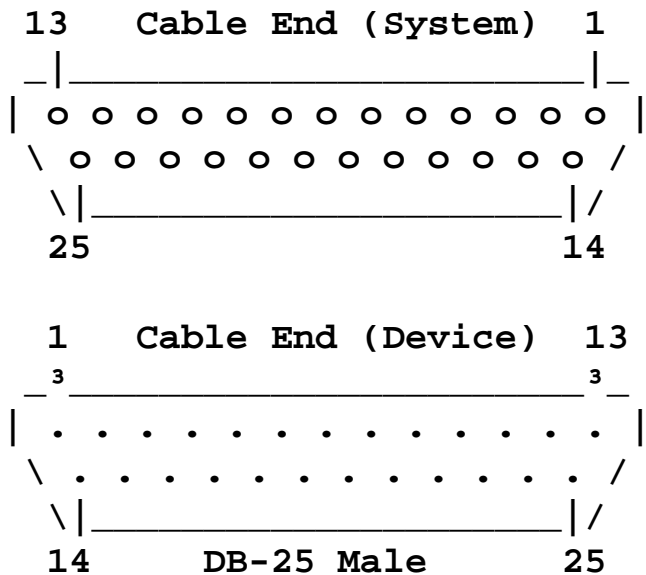


Signal	System End	Device End
TxD	1	2
DTR	2	20
RTS	3	4
RI	4	22
(Not used)		
RxD	6	3
DSR	7	6
CTS	8	5
DCD	9	8
Signal Gnd	10	7

Cable-D Async EIA-232D/V.24 #2936

PN6323741 - 10ft FFC 259

o= Female . = Male

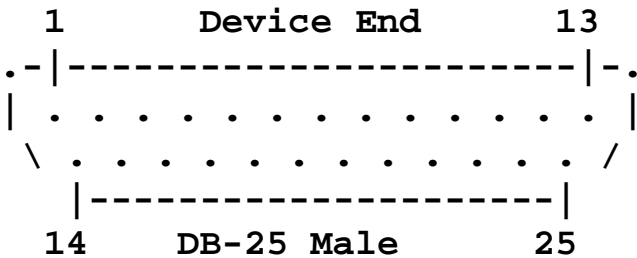
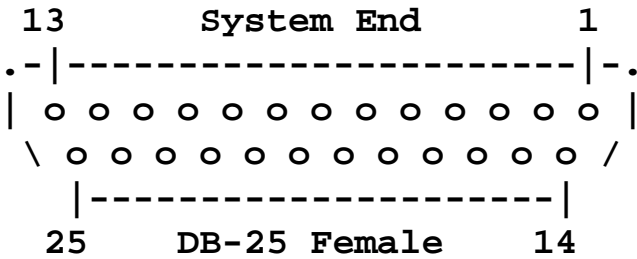


Signal	System End	Device End
Shield Gnd	Shell	Shell,1
TD	2	2
RD	3	3
RTS	4	4
CTS	5	5
DSR	6	6
Sgnl Grnd	7	7
CD	8	8
DTR	20	20
RI	22	22

Cable-E Printer/Terminal Interposer EIA-232 #2937

PN58F2861 or (Interposer Cable 00G2907) - 2" FFC 261

o = hole . = pin



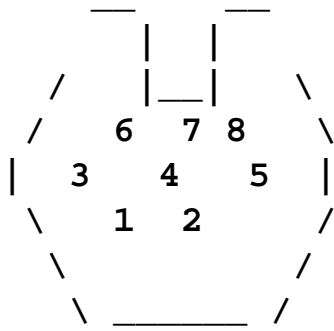
Signal Name	System	Device
Shield Grnd	1	Shell
TD	2 -----	3 RD
RD	3 -----	2 TD
RTS	4 -----	5 CTS
CTS	5 -----	4 RTS
DSR	6 ---+	
CD	8 ---+-----	20 DTR
DTR	20 -----+--	6 DSR
		+-- 8 CD
Signal Grnd	7 -----	7 SG

Cable-F Tablet #2811

Cable-F Tablet #2811

PN6247480 7ft FFC 274

Cable End (System)



Signal Name	Pin
Ground	1
Direct Current	2
+5 V dc	3
Reserved	4
Receive from	5
Transmit to	6
Reserved	7
Reserved	8

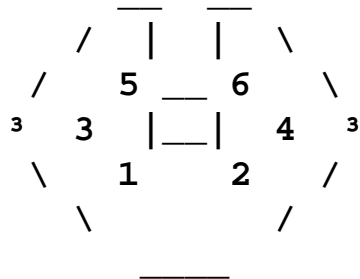
Cable-G Keyboard P/N1394609

Cable End (System)	Signal Name	Pin
/ | | \	Keyboard Data	1
/ 5 | 6 \	Speaker Signal	2
| 3 | 4 |	Ground	3
\ 1 2 /	+5V dc	4
\ /	Keyboard Clock	5
_____	Speaker Ground	6

Cable-H Mouse Cable (Mouse attached)

9ft

Cable End (System)



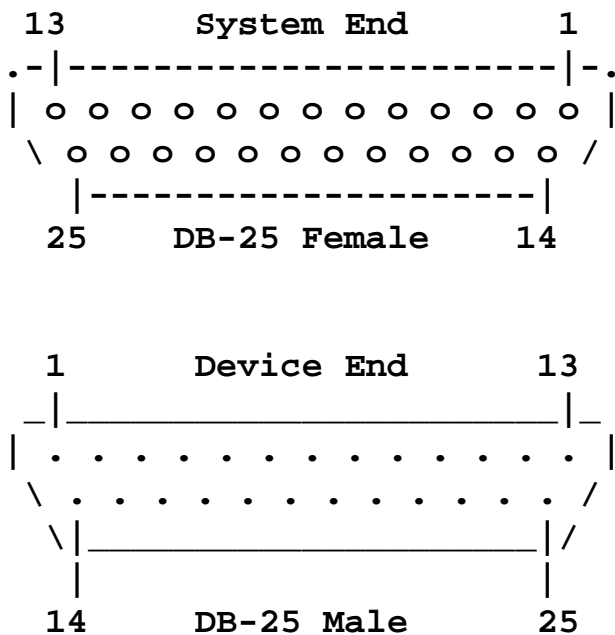
Signal Name	Pin
Mouse Data	1
Reserved	2
Ground	3
+5V dc	4
Mouse Clock	5
Reserved	6

Cable-I

Printer/Terminal Interface Cable EIA-232

P/N 12H1204 - 10ft - #2934

o = hole . = pin



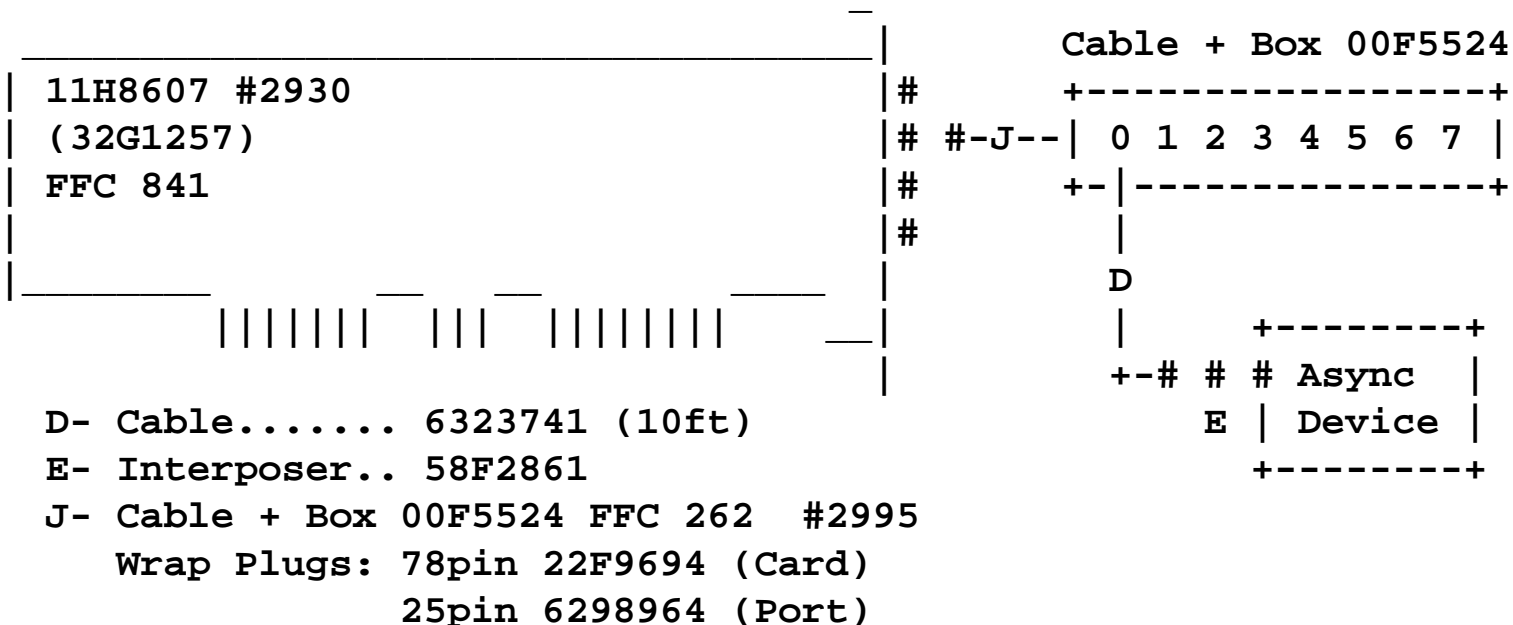
Signal Name	System	Device
Shield Grnd	Shell	Shell,1
TD	2 -----	3 RD
RD	3 -----	2 TD
RTS	4 -----	5 CTS
CTS	5 -----	4 RTS
DSR	6 ---+	
CD	8 ---+-----	20 DTR
DTR	20 -----+---	6 DSR
		+--- 8 CD
Signal Grnd	7 -----	7 SG

This cable has same pinout as Cable-E but it is a true cable not an interposer.

8-Port Async Adapter EIA-232 (Type 3-1) #2930

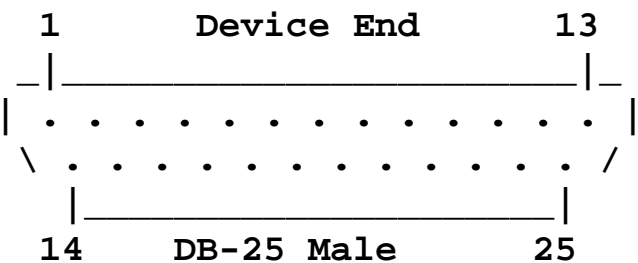
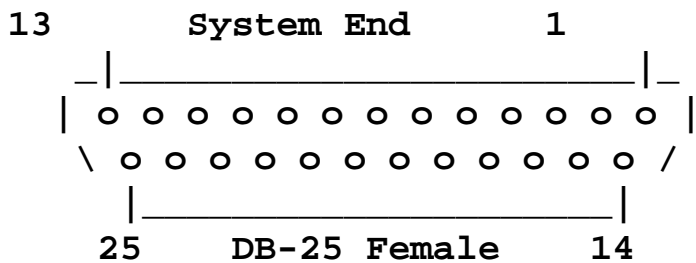
Filesets name: devices.mca.edd0

8-Port Async Adapter EIA-232 (Type 3-1) #2930



Cable-K Terminal Cable EIA-422A #2945

P/N 30F8966 FFC 263



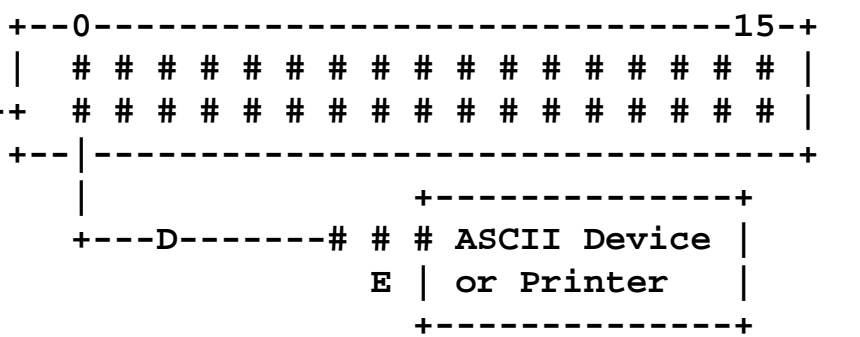
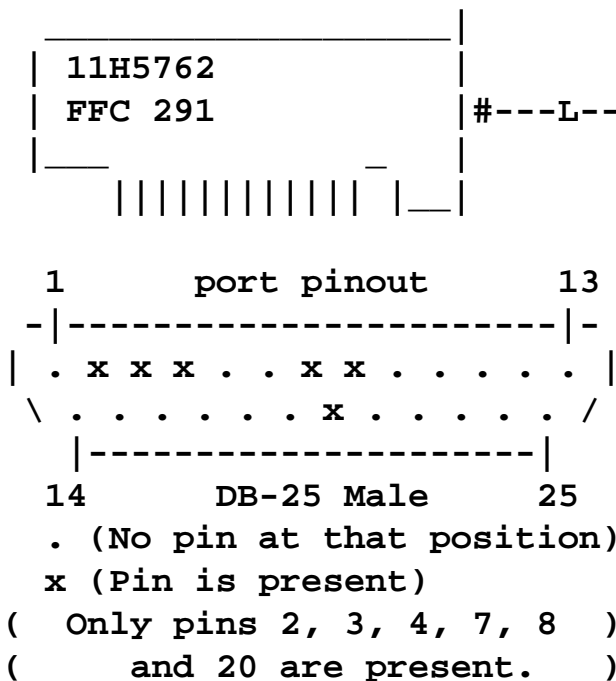
Signal Name	System	Device
TxA or +TD	2	15
RxA or +RD	3	19
TxB or -TD	4	17
RxB or -RD	5	25
Sgnl Grnd	7	7

16-Port Async Adapter EIA-232

Type 3-4 #2955

Card FRU: 11H5762, 30F9297, 32G1256

Cable-L 43G0463 FFC 291 #2996 (Cable & Box)



Cables:
 D-..... 6323741 10ft
 E-..... 58F2861

Wrap Plug:
 78pin..... 53F3312
 25pin..... 6298964

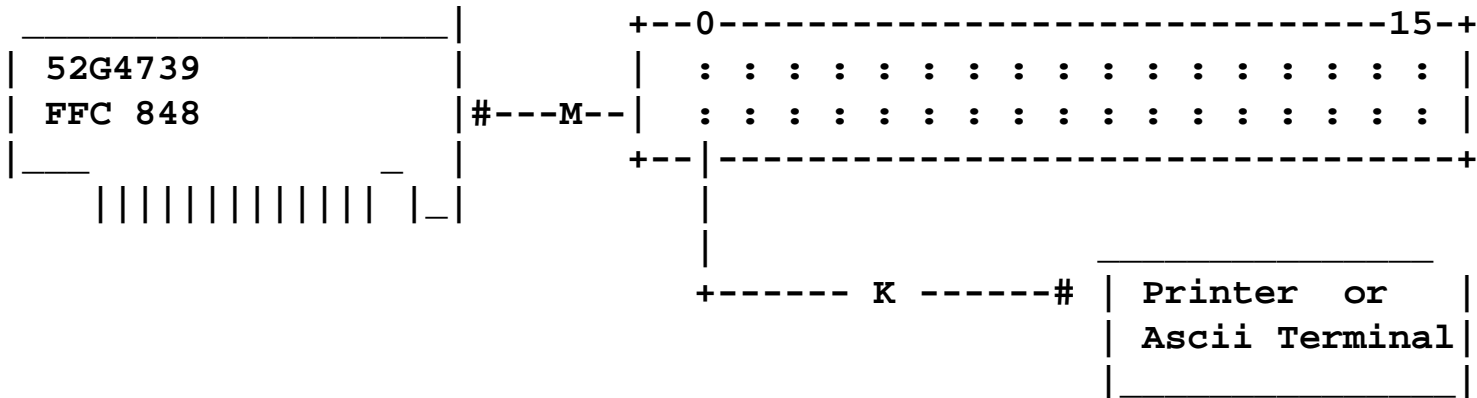
Cable lengths is up to 61m (200 ft) provided the cable doesn't exceed a load capacitance of 2500 pico-farads.

Updated on May 2004 by Jef Goupil

16-Port Async Adapter EIA-422

Type 3-5 #2957

Cable-M 43G0462 FFC 290 #2997 (Cable & Box)

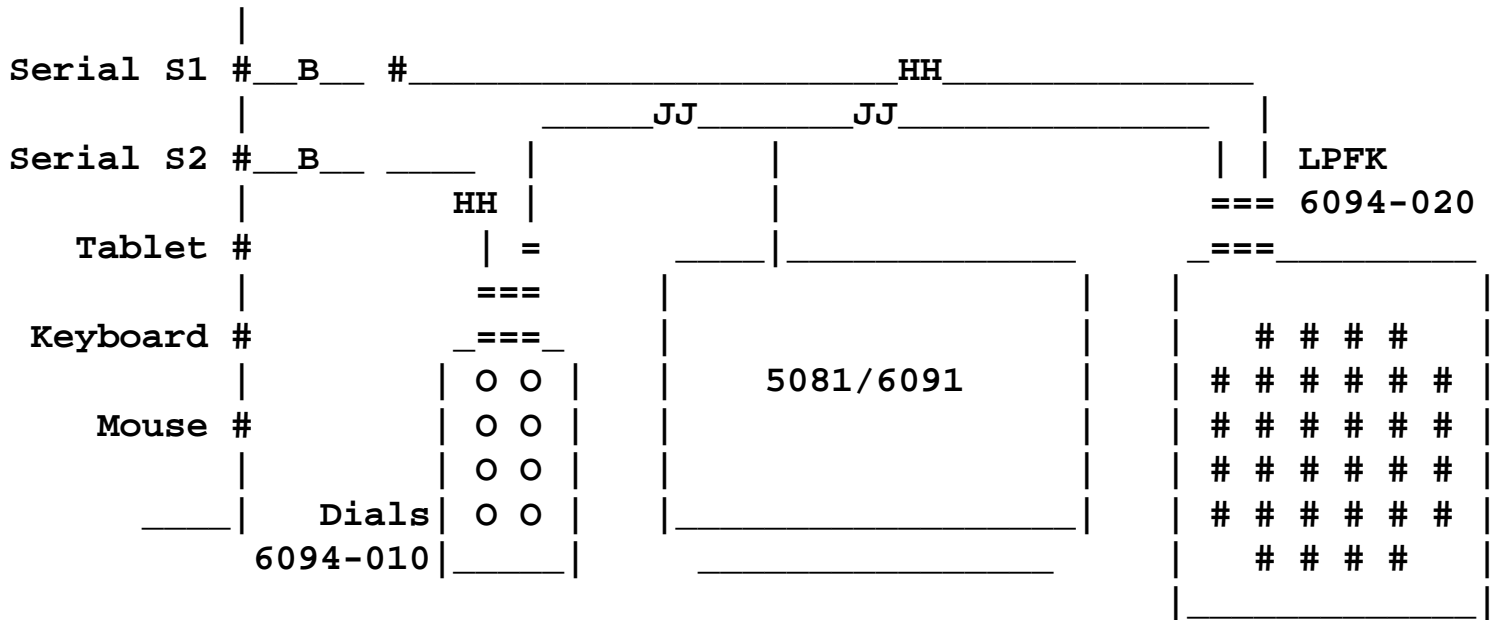


K= Cable EIA-422A PN30F8966 65.5ft
 Wrap Plugs 78-Pin PN53F3312, 25-pin PN30F9159

LPFK 6094-020 and Dials 6094-010 on ports S1 and S2

Cables	P/N
B-	Adapter 10pin-to-DB25.. 00G0943
HH-	Attachment Cable..... 39F8228
JJ-	Power Cable..... 39F8302

RS/6000

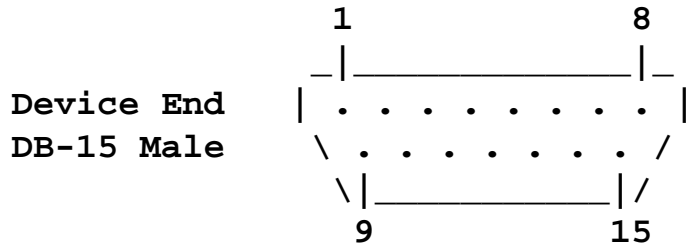
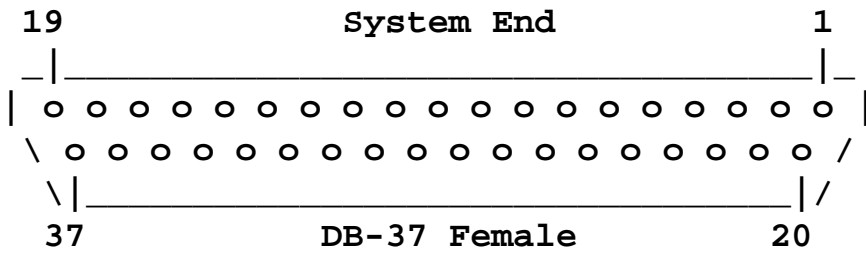


NOTE: See Graphics Input Adapter if not using S1/S2

Cable-Q X.25 Attachment X.21 - FFC 271

P/N07F3151-10ft

P/N53F3926-20ft

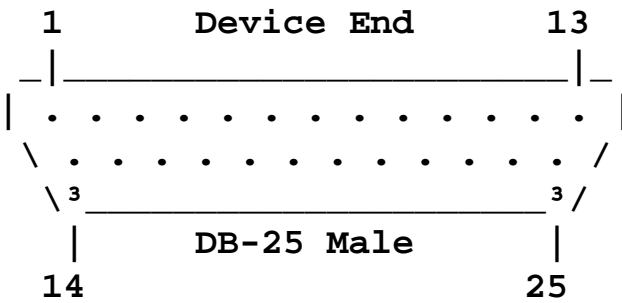
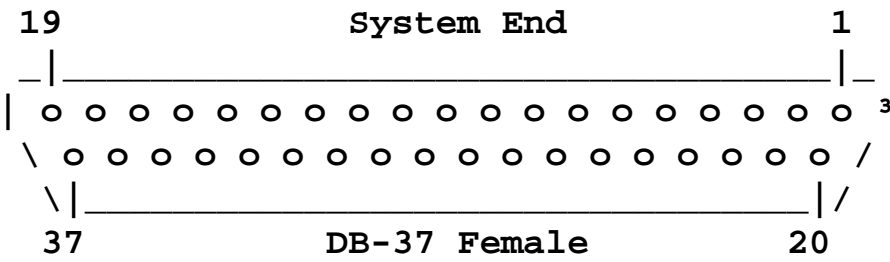


Signal	System	Device
Gnd	7	8
Ground	9	8
T(A)	10	2
C(A)	11	3
R(A)	12	4
I(A)	13	5
S(A)	14	6
T(B)	28	9
C(B)	29	10
R(B)	30	11
I(B)	31	12
S(B)	32	13

Cable-R X.25 Attachment V.24 - FFC 272

PN07F3161-10ft

PN53F3927-20ft

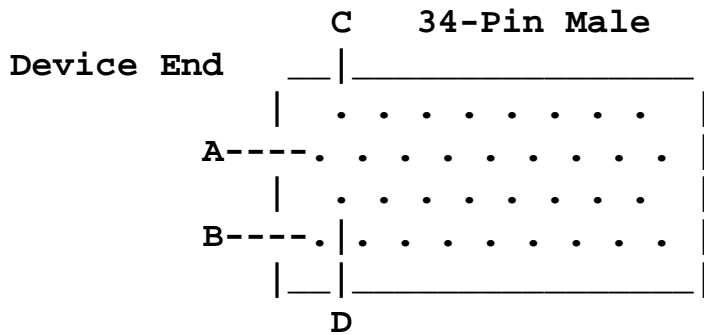
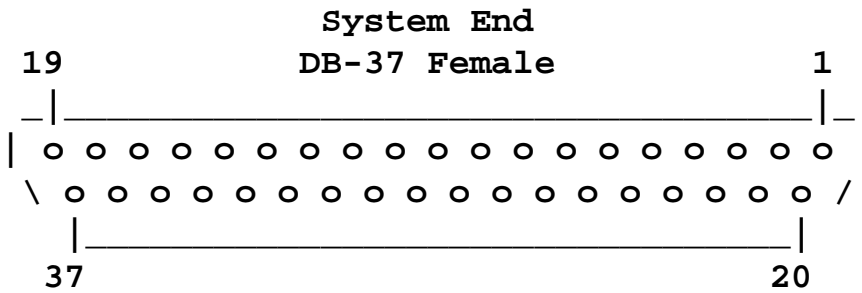


Signal	System	Device
TxD	2	2
RxD	3	3
RTS	4	4
CTS	5	5
DSR	6	6
Ground	7*	7
CD	8	8
Ground	9*	7
Ground	15*	7
DTR	20	20
RLTB	21	21
CI	22	22
Tx CLK	24	15
TI	25	25
Rx CLK	26	17
LLTB	27	18

* Tied together

Cable-S X.25 Attachment V.35

FFC 273 PN07F3171 10ft
 PN53F3928 20ft



Signal	System	Device
RTS	4	C
CTS	5	D
DSR	6	E
Ground	7	B
CD	8	F
Rx Clk-B	16	X
TD-B	17	S
Tx Clk-B	18	AA
RD-B	19	T
DTR	20	H
CI	22	J
Rx Clk	34	V
TD-A	35	P
Tx Clk	36	Y
RD-A	37	R

4-Port Multiprotocol Communications Controller (Type 2-3) #2700 (Type 2-3)

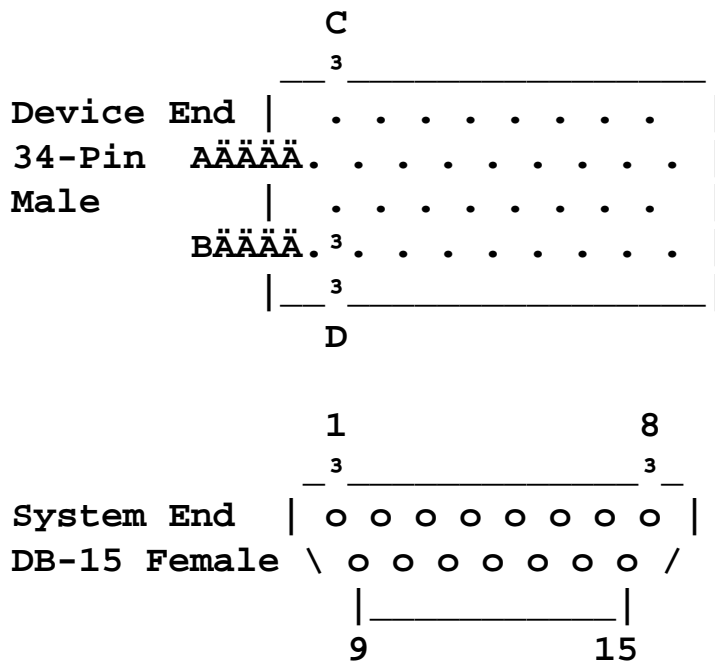
Port

		+-----+	Cables	P/N
52G4322 #2959 -----	0	V.35	#ÄUÄÄ#	71F0162
FFC 855 | Interface Card | # #-T---		EIA232D	#ÄVÄÄ#	71F0165
| 8184299 FFC 186 | #		X.21	#ÄWÄÄ#	71f0164
| ----- | #		EIA422A	#ÄXÄÄ#	Cust.
| ----- |		EIA232D	#ÄVÄÄ#	71F0165
##### ### ##### |	1	V.35	#ÄUÄÄ#	71F0162
T- Cable + Box 40F9897 FFC 258		EIA232D	#ÄVÄÄ#	71F0165
Wrap Plugs:	2	EIA232D	#ÄVÄÄ#	71F0165
V.35 Port.. 40F9900 EIA-232... 40F9903		EIA422A	#ÄKÄÄ#	30F8966
V.35 cable. 71F0163 EIA-422A.. 53F3886		+-----+		
X.21..... 40F9904 78-pin.... 40F9902				

Cable-U 4Port-Multiprotocol/V.35 C

PN71F0162- 2m FFC 257

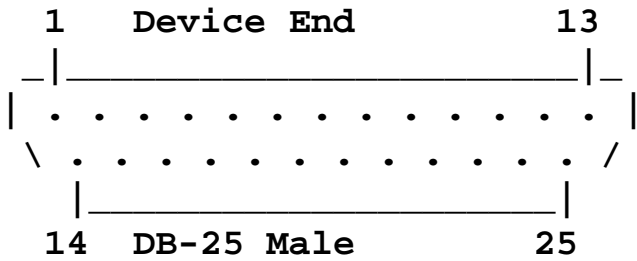
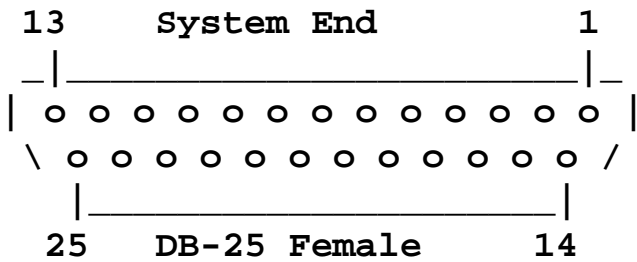
CABLE ENDS CONNECTORS



Signal Name	System	Device
Grnd Shld	1, Shld	A, Shld
TD(B)	2	S
RTS	3	C
RD(B)	4	T
CTS	5	D
DSR	6	E
CD	7	F
Sgnl Gnd	8	B
TD(A)	9	P
Tx Clk(A)	10	Y
RD	11	R
Tx Clk(B)	12	AA
Rx Clk(B)	13	X
Rx Clk(A)	14	V
DTR	15	H

Cable-V 4port-Multiprotocol EIA-232D/V.24

PN71F0165 -3m FFC 254

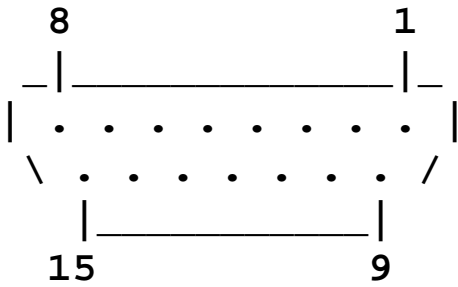


SIGNAL NAME	SYSTEM	DEVICE
Shield Grnd	1	
TD	2	2
RD	3	3
RTS	4	4
CTS	5	5
DSR	6	6
Signal Grnd	7	7
CD	8	8
Tx Clk	15	15
Rx Clk	17	17
DTR	20	20
RI	22	22
HRS	23	23
DTE Clk	24	24

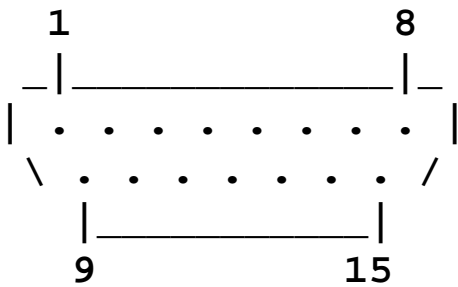
Cable W 4Port-Multiprotocol/X.21

PN71F0164 - 3m FFC 260

System End

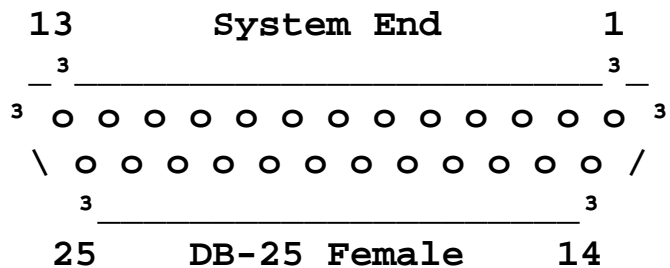


Device End



Mnemonic	System End	Device End
Shield		
T(A) or +TDATA(A)	2	2
C(A) or +C(A)	3	3
R(A) or RxD(A)	4	4
I(A) or TCLK(A)	5	5
S(A) or +RCLK(A)	6	6
Signal Ground	8	8
T(B) or -TDATA(B)	9	9
C(B) or -C(B)	10	10
R(B) or -RxD(B)	11	11
I(B) or -TCLK(B)	12	12
S(B) or -RCLK(B)	13	13

Cable-X EIA-422A 4port Multiprotocol (cust suppl) Port 0 only



Device End
(Customer-supply)

Signal Name	System	Device
Ground Shield		
TxA or +TD	2	-
RxA or +RD	3	-
TxB or -TD	4	-
RxB or -RD	5	-
Sgnl Grnd	7	-
-Rx Clk(B)	17	-
+Rx Clk(A)	22	-
+Tx Clk(A)	23	-
-Tx Clk(B)	24	-

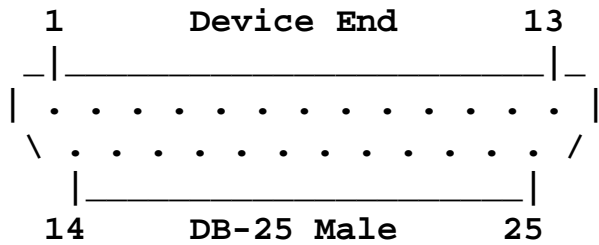
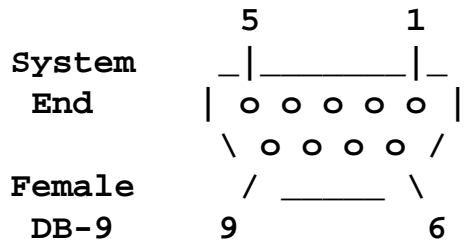
Cable-Z

Cable-Z Ethernet - Dix - Thick

	Signal Name	³	Sys End (DB-15)	³	Customer
CI-S	Control in circuit-shield	³	1	³	.
CI-A	Control in circuit-A	³	2	³	.
DO-A	Data out circuit-A	³	3	³	.
DI-S	Data in circuit-shield	³	4	³	.
DI-A	Data In circuit-A	³	5	³	.
Vc	Voltage common	³	6	³	.
CO-A	Control out circuit-A	³	7	³	.
CO-S	Control out circuit-shield	³	8	³	.
CI-B	Control in circuit-B	³	9	³	.
DO-B	Data out circuit-B	³	10	³	.
DO-S	Data out circuit-shield	³	11	³	.
DI-B	Data in circuit-B	³	12	³	.
VP	Voltage plus	³	13	³	.
VS	Voltage shield	³	14	³	.
CO-B	Control-out	³	15	³	.
PG	Protective ground	³	Shell	³	.

Cable AR - Modem

The Serial Port cable (Async Cable EIA-232) is for systems that have a nine pin serial port connector



System End 9-pin	Signal	Device End 25-pin
Shell	Shield Ground	1, Shell
1	CD	8
2	RxD	3
3	TxD	2
4	DTR	20
5	Signal Ground	7
6	DSR	6
7	RTS	4
8	CTS	5
9	RI	22



Ethernet Cabling Parts

BNC Parts:

T-Connector.....	60G3978
Terminator 50-ohms..	85F0037
Coax Cable 16.4ft...	6245998

Transceivers:

10BaseT #4224.....	02G7429, 02G7431
10Base2 #4223.....	02G7435, 02G7437

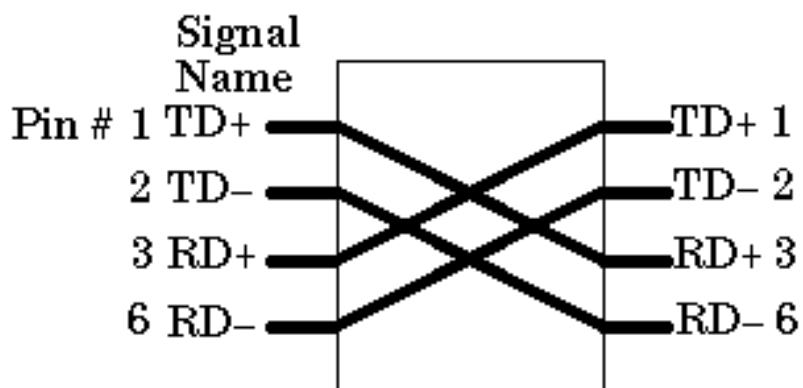
Converters:

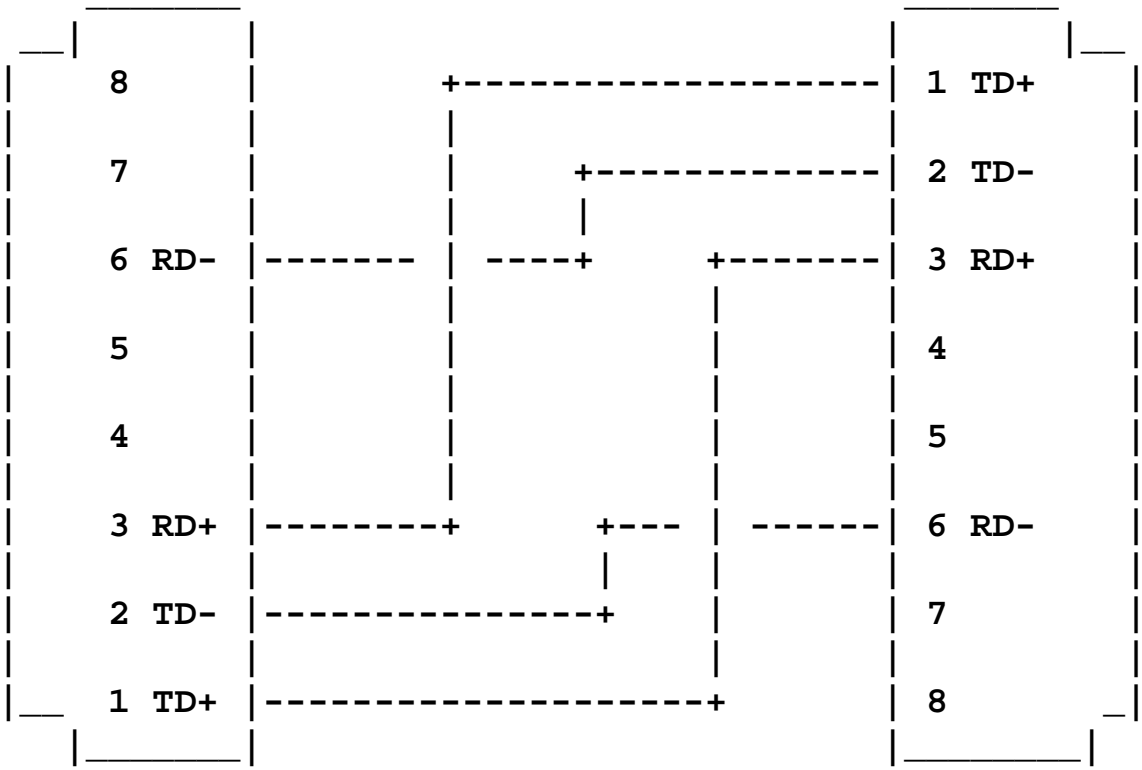
10BaseT for 7011-250.	51G8479
10BaseT for Xstation.	43G2820

Wrap Plugs:

15pos Thick D-Shape.	70F9625
Thin BNC 25ohms.....	70F9626, 71F1168

RJ45 Crossover Cable Pinout ('Null Hub' - Machine-to-Machine)

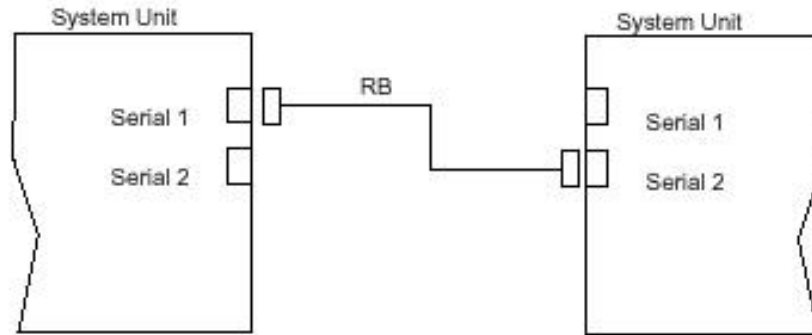




Cable End view

FC 3124 and 3125 (Serial to Serial Port Re-IPL Cables)

The following figure illustrates how to install a serial Re-IPL cable.



Cable Letter	Cable Name/Description	Part Number	Feature Code	Length m ft
RB	Serial to Serial Port Can be customer-supplied	88G4853	3124	3.7 12
RB	Serial to Serial Port Can be customer-supplied	88G4854	3125	8 39.4

Cable RB

Description: This is a serial to serial port Re_IPL Cable.

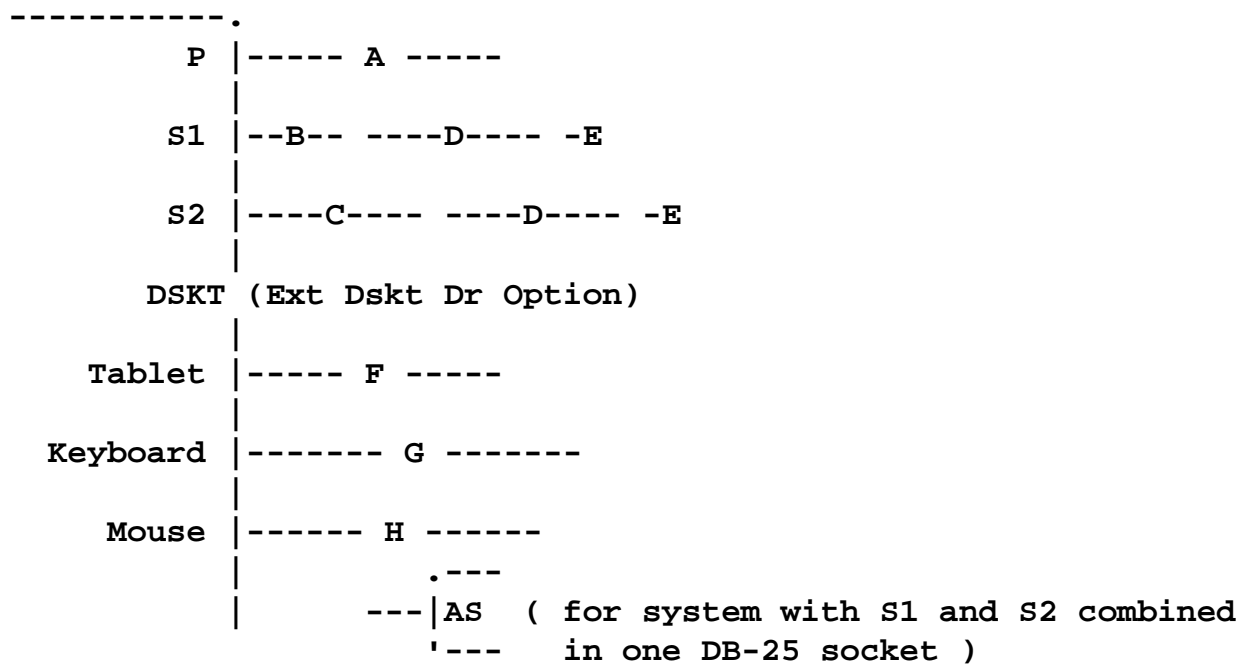
The serial to serial port Re_IPL cable comes in two lengths, 3.7 or 8 meters long.



System End Connector	Signal	Device End Connector
Socket (Female)		Socket (Female)
Shell	Shield Ground	Shell, 1
2	TxD	3
3	RxD	2
4	RTS	5
5	CTS	4
6, 8	DSR, CD	20
7	Signal Ground	7
20	DTR	6, 8

Native Port (Early 7012 and 7013)

External Ports & Cable (Behind the system)



Cable name	Cable P/N	Length ft	Wrap plug
A- Parallel port	1525612	10	71F0690
B- System to DB-25	00G0943	.33	
C- " " " "	59F4533	10	
D- Async EIA232	6323741	10	6298924
E- Printer/terminal Interposer	58F2861		
F- Tablet Suppl with tablet	6247480	7	22F9689
G- Keyboard Suppl with kbd		10	
H- Mouse Suppl with mouse		9	
S1/S2- AS Dual Port for S1	31F4590		6298966

P50 / P70 / P200 / P201 Colour Monitors Cables

System / Adapter	P50	P70	P200	P201
X-Station 140, 160	96G2693	96G2688	96G2688	96G2688
X-Station 150	96G2693 + 52G3282	96G2689	96G2689	96G2689
Gt1	96G2693	96G2688	96G2688	96G2688
Gt1x, GXT100, GXT150, GXT150M, GXT150L, GXT155L, GXT150P, GXT1000, Mg24	96G2693 + 52G3282	96G2689	96G2689	96G2689
Gt3i, Gt4e, Gt4i, Gt4xi	N/S	40H2934	40H2934	40H2934
E15, S15	N/R	96G2156*	96G2156*	96G1712*
Apple attachment	96G2694	96G2156*	96G2156*	96G1712*

N/R No additional cables or cable adapters are required.

N/S Not Supported

Part number	Description
40H2934	13W3 to 3W3 cable converter
52G3282	15-pin to 13W3 cable converter
96G2156	13W3 to 15-pin cable providing DDC 'Plug and Play' capability
96G2688	13W3 to 15-pin cable providing '1010' ID bits
96G2689	13W3 to 13W3 cable providing '1010' ID bits
96G2693	15-pin to 15-pin cable providing '1010' ID bits
96G2694	15-pin IBM to 15-pin Apple cable adapter

Updated Nov 21 2000 by Bruno Croft

Various SCSI Cables

For cabling examples, refer to the appropriate SCSI adapter in CARDS/Adapters/ETC...

7006:	Internal SCSI cable 3-drop.....	88G2577
7009:	Internal SCSI cable 4-drop.....	65G8006
7011:	Riser Card	51G9900,
00G2721,	Ferrite (half).....	51G8087
	(2 half + clip).....	8184385
7012:		
Cable SCSI Internal (7012-320/32H/32E)		31G9675, 00G0963,
40F9984		
Cable SCSI Internal (Integrated SCSI) 50pin-to-50pin		43G0779, 31F4482.
Cable SCSI-2 7012-380/390 (4drop).....		52G4850
Interposer 68-pin-to-50-pin for 52G4850...		92F2565
Terminator 16-bit for 52G4850.....		88G3977
Riser Card SCSI.....		51G9900, 00G2721,
7013:		
Early models (Not 55L, 570, 580)		
Cable SCSI Internal + Diskette.....	00G0976	
(with bottom SCSI disk drive support)		
2nd SCSI Cable Internal, 4-drop.....	00G0977	
2nd SCSI Cable Internal, 6-drop.....	51G8571	

Other SCSI Parts (suite)

- 570/580/590:

65G7537,	Cable Integrated SCSI Ribbon + Dskt.....	52G7389,
51G9921,	(without bottom SCSI disk drive support)	65G7538,
		00G3278.
	2nd SCSI Cable Internal, 6-drop.....	51G8571

- 55L:

Cable SCSI Internal.....	52G7448, 65G7539
SCSI Riser Card 55L.....	51G7351
Cable Internal SCSI, 2nd SCSI, 4-drop.....	52G7450
Cable Internal SCSI, 2nd SCSI 6-drop	52G7451
Cable Internal SCSI, 2nd SCSI 6-drop	52G4430

7015:

Cable SCSI Internal	52G7748
Terminator for 7011-220.....	43G0467

7024:

Cable, Internal SCSI 4-drop.....	12H1169
----------------------------------	---------

7026-H50/H70:

Cable, Internal 4-drop.....	93H9613
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7043-140/150:

Cable, Internal SCSI, 4-drop.....	73H0435
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7043-240:

Ultra SCSI cable optional.....	93H6151
--------------------------------	---------

7043-260:

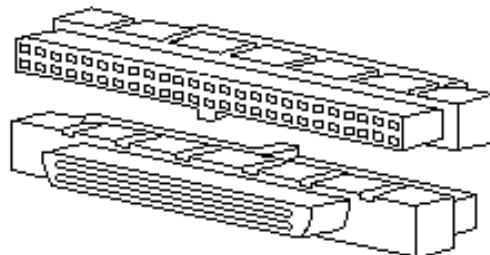
Cable, Internal SCSI Pigtail.....	01K6497
Cable, Internal SCSI 4-drop.....	97H9322

7248:

Cable SCSI Internal 5-drop.....	88G1937
---------------------------------	---------

Interposers:

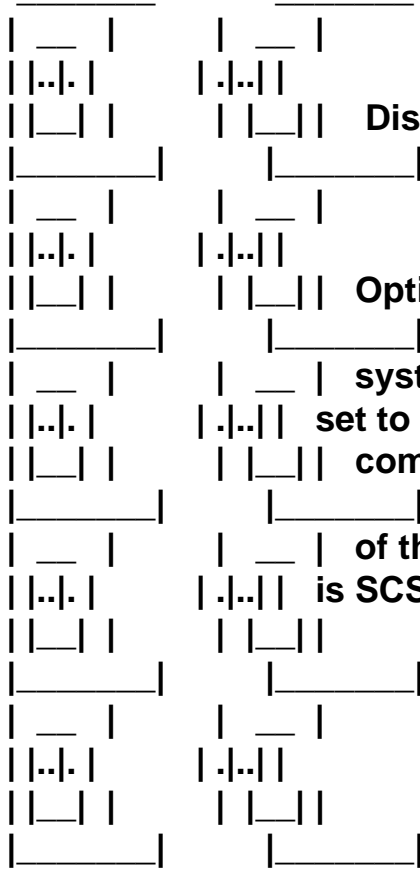
For Device 8-bit 50-pos to 68-pos Wide Internal Cable... 92F0324
 This interposer is female-female. This is the opposite of 87G4587.



For Device 16-bit 68-pos to 50-pos Internal Cable..... 87G4587 FFC 704
This interposer is male-male and the opposite of 92F0324.

Disabled

Enabled



**Disable/Enable the SCSI Connector
(7011)**

**Optional security for SCSI is provided
by five jumpers (JP1) on the
system board. These jumpers (when
set to the disabled position) prevent
communication through the external
SCSI connector. The default setting
of the jumpers from the manufacturer
is SCSI connector enabled.**

**<'D / C`>
()-a ---+-()
/> <**

(/)**

((o o))@@@@@@@@

\ /@@@@@@@@@@@@

---x---x---x---x---x---|---x---x---x---x---x---|---x---x---x---(---)@@@@@@@@@@@@

@@@@@@@@@@@@@@@@

---x---x---x---x---x---|---x---x---x---x---x---|---x---x---x---@ ---@---@---@

\\// \3/ \\333// \\/ \\33/ \33/// \\// \\ \\ @ @

**March 20 2001 BJ Croft
Outstanding in the field!**

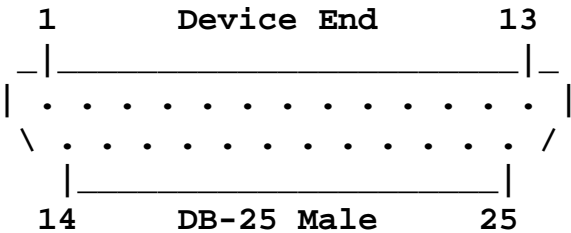
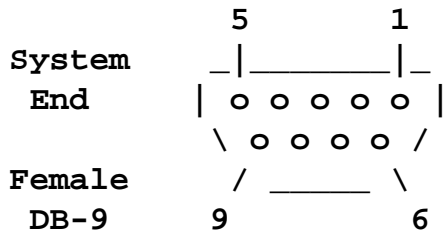
DB-9 Serial Cables

Wrap Plugs: to test 7248 9-pin serial port 6298965

Cables DB9-to-DB-25

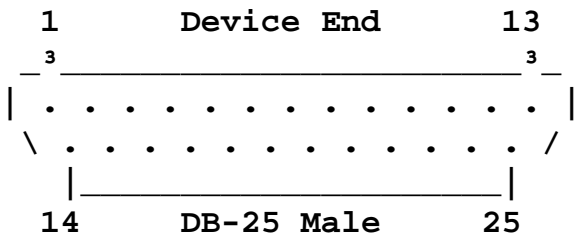
All cables FRUs at right are modem cable and requires interposer 58F2861 to be use as terminal/printer cable	40H6328 10" Systems with 9-pin port #3925 80G0597 4m #3926 11H8268 (7015-R30/R40 - no FC) 6298963 (10-inch)
--	--

(This is the pinout of the cable DB9F/DB25M that comes with some POWERPCs)
 (An interposer 58F2861 must be added for a terminal)

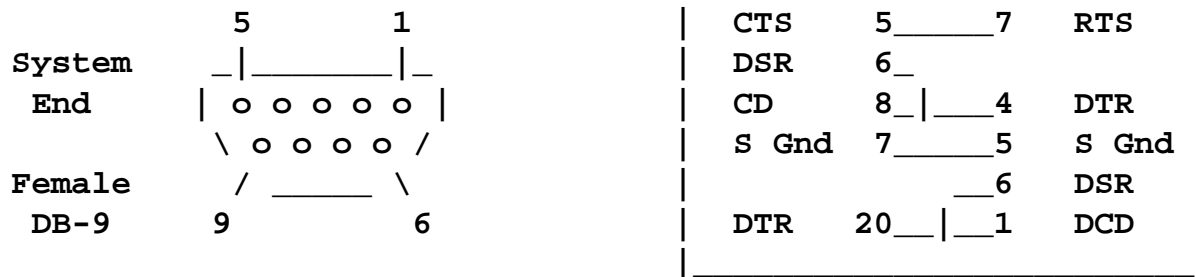


	DB25 Side	DB-9 Side
	Signal pin	pin Signal
1, Shell	_____	Shell
TxD	2_____3	TxD
RxD	3_____2	RxD
RTS	4_____7	RTS
CTS	5_____8	CTS
DSR	6_____6	DSR
CD	8_____1	CD
S Gnd	7_____5	S Gnd
DTR	20_____4	DTR
RI	22_____9	RI

Cable DB-25 to DB-9 (No interposer needed) (not for modem) No P/N



	DB25 Side	DB-9 Side
	Signal pin	pin Signal
TxD	2_____2	RxD
RxD	3_____3	TxD
RTS	4_____8	CTS



Pin-to-pin Converter Cable

RJ45 Side		DB9 Side	
Signal	pin	pin	Signal
Gnd Shld	1	-	N/A
RTS	2	7	RTS
RxD	3	2	RxD
CD	4	1	DCD
Sgnl Gnd	5	5	Sgnl Gnd
TxD	6	3	TxD
DTR	7	4	DTR
CTS	8	8	CTS

This pin assignment only convert RJ45 64-port type to DB9.

WARNING: Don't use this pinout for 128-port or 7318.

Terminal Cable (PC as terminal) (not for modem)

RJ45 Side		DB9 Side	
Signal	pin	pin	Signal
Gnd Shld	1	-	N/A
RTS	2	8	CTS
RxD	3	3	TxD
CD	4	4	DTR
Sgnl Gnd	5	5	Sgnl Gnd
TxD	6	2	RxD

DTR	7	6,1	DSR,DCD
CTS	8	7	RTS

16-port			
RS/6000	Concentrator	RJ-45 to DB-9	PC Terminal

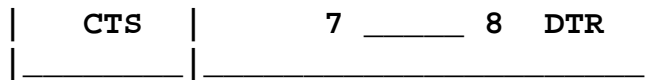
DB-25 (or RJ-45 64port type) to DB9 for HP Laserjet IV

	Computer Side		Printer Side	
Signal	DB-25 or RJ-45		DB-9 HP	
CTS	5	or 8	1	RTS
RD	3	or 3	2	TD
TD	2	or 6	3	RD
DTR	20	or 7	4	DSR
Gnd	7	or 5	5	Gnd
CD	8	or 4	6	DTR
			8	DTR

NOTE: RJ-45 used pinout is 64-port type, not 128-port .

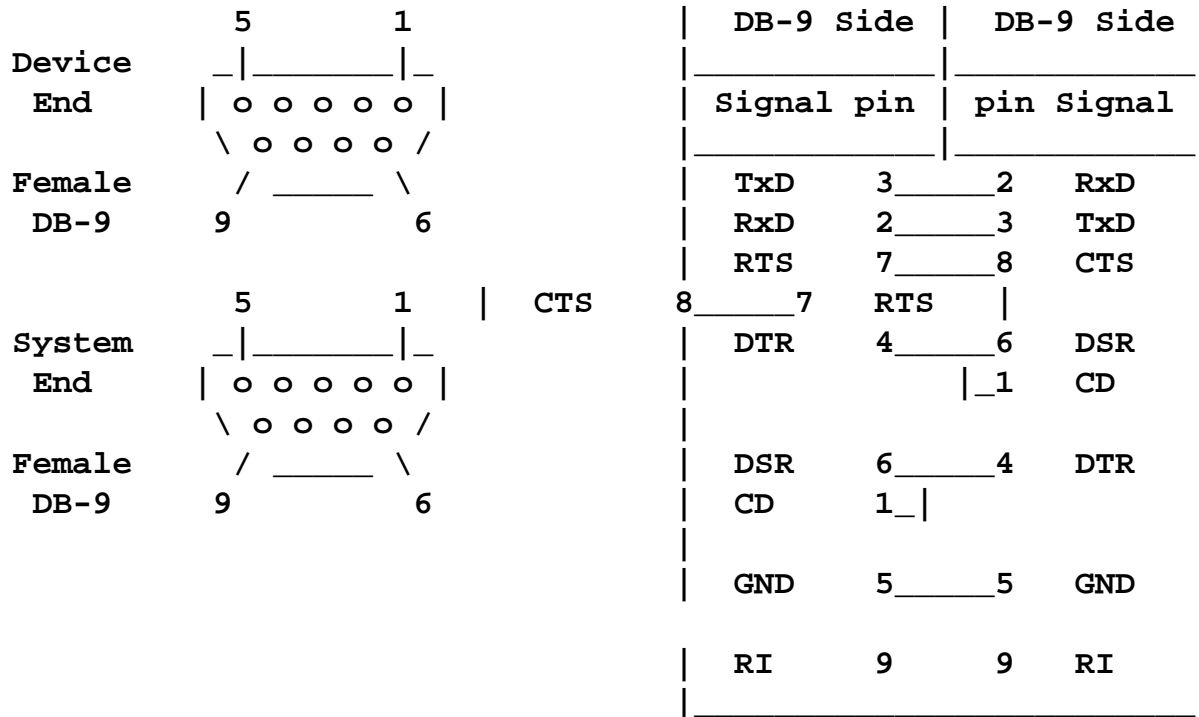
128-Port RJ-45 to DB9 for HP Laserjet IV

	System End	Printer end
Signal	RJ-45	DB-9 HP
RD	5	2 TD
TD	4	3 RD
DTR	8	4 DSR
S Gnd	6	5 Gnd
DSR	1	6 DTR



NOTE: This cable has not been tested but it should work. There is 2 pins identified as DTR: 6 and 8. HP says to wire pin 6 to DSR and pin 8 to CTS of the system end. I figure out that one DTR is used to signal the system the printer is ON and the other DTR is used for hardware flow control.

Cable DB-9 to DB-9 (No interposer needed) (not for modem) No P/N

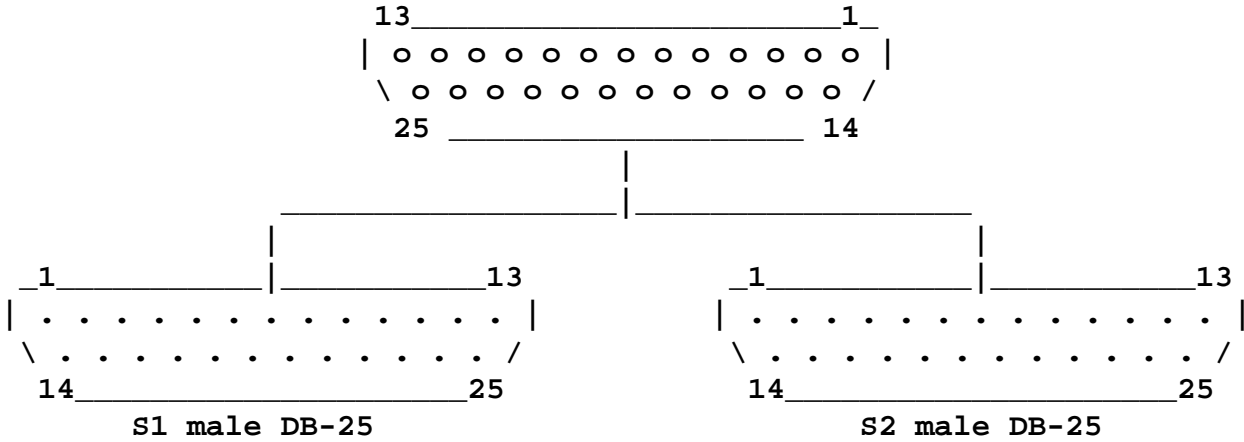


Updated Dec 21 2000 by Bruno Croft

Splitter Cable #3107 7006/7009/7010

P/N 31F4590

System End - Female DB-25



	TD	RD	RTS	CTS	DSR	GND	CD	DTR*	DTR	RI	TD	RD	RTS	CTS	DSR	GND	CD	DTR*	DTR	
RI	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
System	2	3	4	5	6	7	8	11	20	22	14	16	19	13	15	7	12	24	24	
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Signals	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	2	3	4	5	6	7	8	11	20	22										
	—	—	—	—	—	—	—	—	—	—										
22											2	3	4	5	6	7	8	11	20	
	<----- SERIAL PORT S1 ----->										—	—	—	—	—	—	—	—	—	
	<----- SERIAL PORT S2 ----->																			
>																				

* Means that this signal is not commonly used this way in the EIA-232D standard, however the splitter (fan-out) cable is wired in this manner.

SSA Cables

Cable blue 40MB/s:

08L7912	25meter
08L7911	10meter
08L7910	5meter
08L7909	2.5m
08L7908	1m

Cable black 20MB/s:

88G6406	30.0m	#5250
32H1466	10.0m	#5100
88G6404	5.0m	#5050
32H1465	2.5m	#5025
07H8985	1.0m	#5010
31H7960	0.6m	

Model 7133-500 only.

Copper cable:

88G6406	25m	
32H1466	10m	
88G6404	5.0m	
32H1465	2.5m	
07H8604	1.0m	
07H9163	0.18m	Model 7133-010/500 only.

Screwdriver:

32H7059

Created Nov 2004 by Bruno Croft

SP CABLING

54G3300..... Cable RS232 from CWS to Frame Supervisor card 15-meter

Created: Sep 2003 by BJ Croft

Terminal Emulation kit..... 35H0661 - not orderable anymore
db9 to db25..... 62H4857
db9-db9 interposer..... 08L8045

Update May 2004 by Bruno



Wrap Plugs

2-3	4-Port Multiprotocol (#2700)	Adapter, 78 pin X.21 port V.35 port V.35 cable EIA-232D port EIA-422A port	40F9902 40F9904 40F9900 71F0163 40F9903 53F3886
2-P	MP/A 1-Port Multiprotocol (#2959)	Adapter 25-pin	72X8546 or 62X1083
2-C	Multiport/2 4-Port EIA-232C (#7002 or #7004 and #7022)	Adapter 78 pin 25 pin port 0 - 1 25 pin port 2 - 3	09F1803 6425494 09F1799
2-F	Multiport/2 Adapter 4-Port EIA-232-C/ 4-Port EIA-422-A (#7002 or #7004 and #7030)	Adapter 78 pin 25 pin port 1 - 2 25 pin port 2 - 7	16F2478 6425494 09F1799
2-E	Multiport/2 6-Port Synchronous EIA-232C Card #7002 OR #7004 AND #7024	Adapter 78 pin 25 pin port 0 - 5	15F8856 33F8968
2-J	6 port V.35 portmaster adtr/A	Adapter 100 pin 25 pin port 0 - 5	72F0168 72F0167
2-K	6 port X.21 portmaster adtr/A	Adapter 100 pin 25 pin port 0 - 5	85F0205 85F0206
3-1	8 port Async adtrs	Adapter 78 pin 25 pin EIA 232 D 25 pin EIA 422 A	22F9694 6298964 30F9159
3-1	8 port EIA 232 C Multiprt/2	Adapter 78 pin 25 pin port 0 - 1 25 pin port 2 - 7	09F1803 6425494 09F1799

2-G	8 port EIA 422 A Multiprt/2	Adapter 78 pin	09F1803
		25 pin port 0 - 1	6425494
		25 pin port 2 - 7	09F1799

2-H	8 port EIA 232 D Portmaster	Adapter 100 pin	68F7208
			or
			15F8848
			or
			57F0628
		25 pin port 2 - 7	33F8964

3-2	8 port EIA 422 A Portmaster	Adapter 100 pin	68F7208
			or
			15F8848
		25 pin port 2 - 7	33F8964

3-4	16 port async EIA 232 D	Adapter 78 pin	53F3312
		25 pin	6298964

3-5	16 port async EIA 422 A	Adapter 78 pin	53F3312
		25 pin	30F9159

3-6	64 port async controller	adapter RJ45 conn	53F3623
	16 port async concentrator	input cable wrap	53F3205
		Output conn wrap	53F3624
		25 pin	6298964

Block Multiplex channel adtr	78 pin adapter	71F1184
	bus cable	8575337
	tag cable	8575338

Parallel printer adapter	25 pin (prntr port)	71F0690
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Serial adapter (S1,S2)	10 pin C&K	6298966
	25 pin D shell	6298964
Serial port 7248	9 pin	6298965

ESCON Channel adapter	Fiber optic	5605670
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Ethernet adapter	15pin Thick AUI	71F1167 (70F9625)	
	BNC 25 Ohm	71F1168 (70F9626)	
	Thin for #4223	02G7433	
	Twisted-Pair #4224	00G2380	
FDDI adapter	two port fiber optic	81F9016	
FDDI single/dual ring adtr	Fiber optic	92F9003	
FDDI STP single/dual ring		33G2759	
fiber optical cable	Fiber optic	46F2438	
Feed-through connector	Fiber optic	99F0489	
Graphics input device adtr	8 pin mini din	22F9689	
M-video capture adapter NTSC	wrap cable set	92F3713	
M-video capture adapter PAL	wrap cable set	92F3714	
S/370 Channel emulator/A	Bus cable	5479141	
	Tag cable	5479139	
Serial Optical Channel Conv.	Two port optic	56F0203	**
	Fiber optic cable	46F2438	
	Feed trough conn.	99F0489	
Tablet adapter	Tablet connector	22F9689	
Voice server card	V pack cable	34F0874	
	CSU cable (t1 only)	34F0875	
	9291 15 pin male	34F0876	
	Coax CEPT only	61F5394	
	Coax, network CEPT	61F5395	***

X.25 Communications adapter	Adapter 37 pin	07F3132
	X.21 cable (07F3151)	07F3153
	V.24 Cable (07F3161)	07F3163
	V.35 Cable (07F3171)	07F3173

Token-Ring	DB09 with 4 pins	6165899
	not sure if used on RS/6000 platform	

9-Y Token-Ring PCI	Adapter RS-45	04H7648
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* Available only as part of a wrap plug kit p/n 53F3662

** Shipped with converter

*** All countries except France

Updated Aug 13 2002 by BJ Croft



128-PORT CABLES

- All Together

FROM CONTROLLER or RAN OUTPUT to:

- RAN - Cable-NB/NC 8-wires
- RAN - Cable-ND 4-wires

MODEM EIA-232:

- Cable-NE Controller-to-Modem
- Cable-NF Modem-to-Device

MODEM EIA-422:

- Cable-NG Controller-to-Modem
- Cable-NH Modem-to-Device

FROM RAN PORT to:

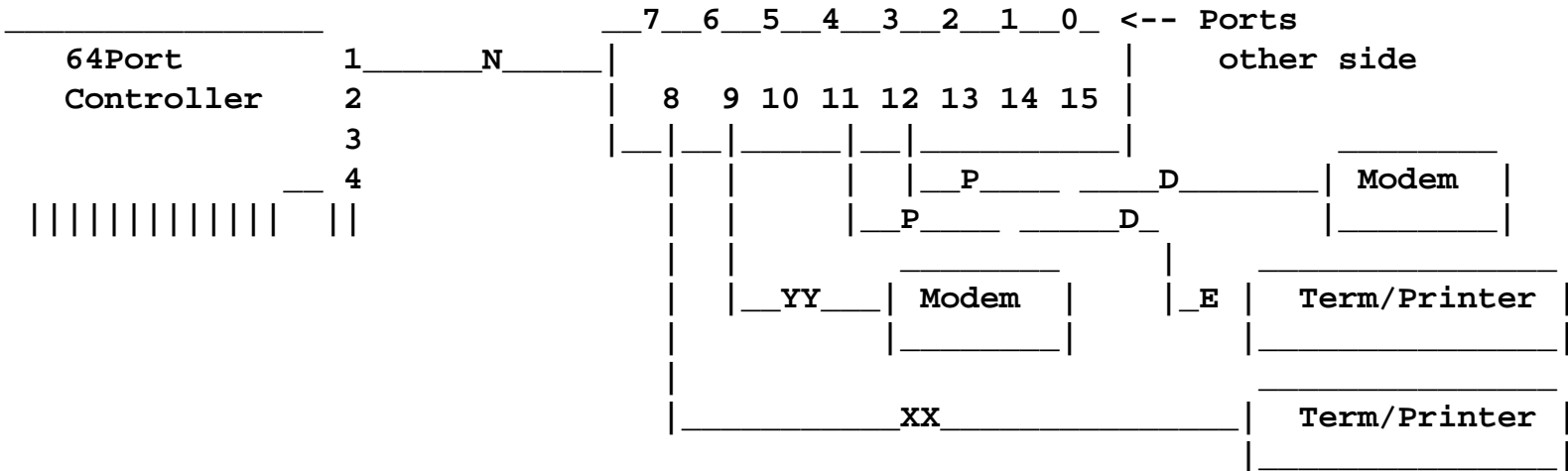
- Cable-NK Converter Cable RJ-45-to-DB-25 for Device/Modem
- Cable-NL One-piece Cable Term/Printer
- Cable-NM Ran-to-Modem
- HP Printer with DB9 connector

CONVERTER:

- 64-Port to 128-Port

Nov 16 2000 by Bruno Croft

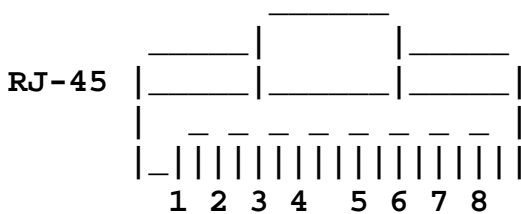
64-Port Adapter Type 3-6 #6400 and Cables



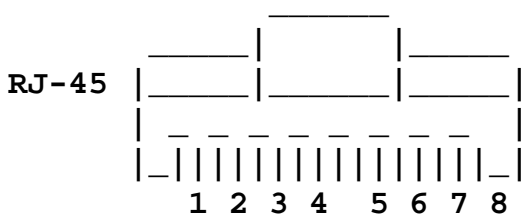
(Cables pinout follows on next pages)

Cable-N 64-Port Controller to 16Port Async Concentrator PN00G1109 - 25ft FFC265

64-Port Async Ctrl cable end



concentrator cable end



Signal Name	System	Device
Xmit Data A	1 -->	1
Xmit Data B	2 -->	2
Shield	3	3
Xmit Clock B	4 -->	4
Xmit Clock A	5 -->	5
Unused	6	6
Rcv Data - B	7 <--	7
Rcv Data - A	8 <--	8

Cable: 6 conductors, 3 twisted pairs, shielded outside.

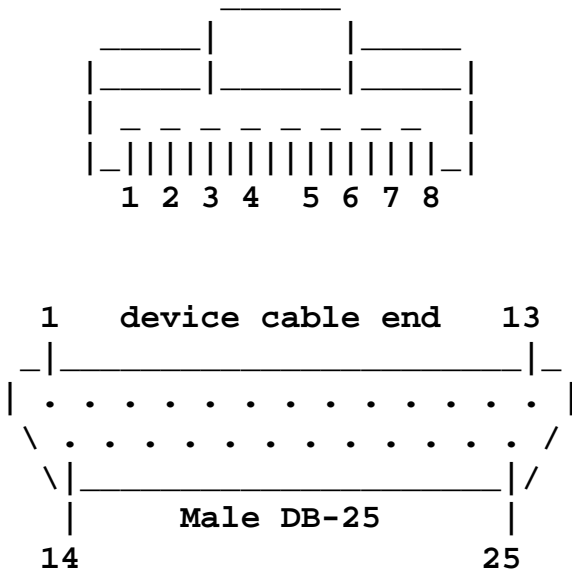
<1000ft..... 28AWG

>1000ft <2500ft... 24AWG

Toroid: <6inch of concentrator box.

Cable-P - RJ-45 to DB-25 Converter Cable PN59F3432 - 1ft FFC266

concentrator cable end RJ-45

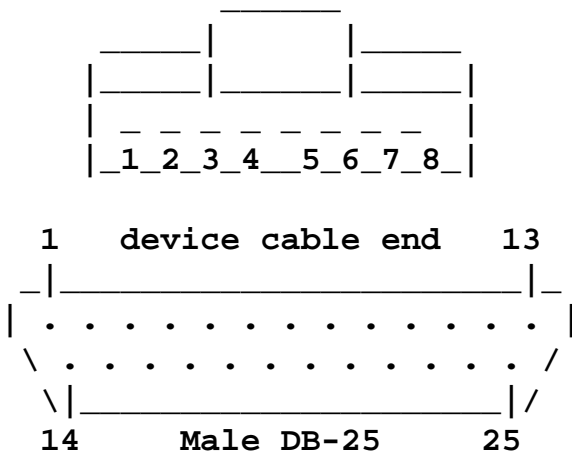


Signal Name	Concentr	Device
Shld Gnd	1	1
RTS	2	4
RD	3	3
CD	4	8
Sgnl Gnd	5	7
TD	6	2
DTR	7	20
CTS	8	5

Cable-XX 16port Concentrator EIA-232 Printer/Terminal Cable
(This cable doesn't need an interposer)

concentrator end RJ-45

Total capacitance:2500 picofarads
Cable max length: 200ft 28AWG



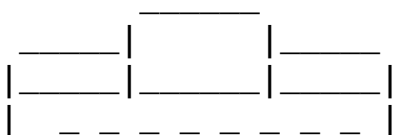
Signal Name	Concentr	Device
Shld Gnd	1	Float*
RTS	2	5
RxD	3	2
CD	4	20
Sgnl Ground	5	7
TxD	6	3
DTR	7	6,8
CTS	8	4

*If shld gnd is connected to device pin 1, Leave system end to float.
the shield should be connected to the frame ground at one end only.

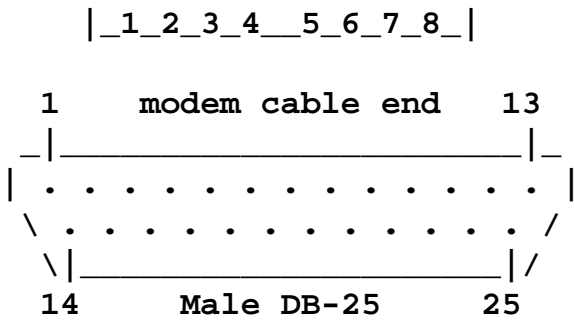
Cable-YY 16port Concentrator EIA-232 Modem Cable

concentrator cable end RJ-45

Total capacitance:2500 picofarads
Cable max length: 200ft 28AWG



Signal Name	Concentr	Device
-------------	----------	--------



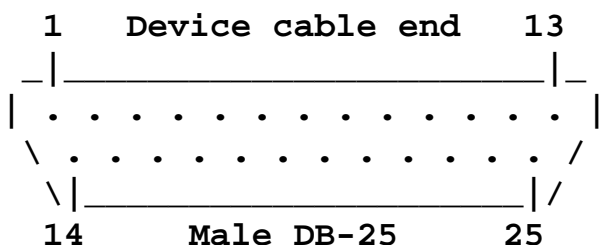
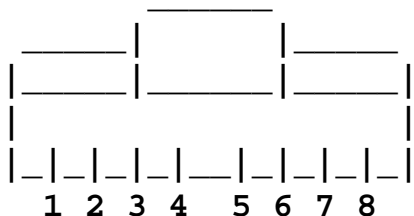
Shld Gnd	1	Float*
RTS	2	4
RxD	3	3
CD	4	8
Sgnl Ground	5	7
TxD	6	2
DTR	7	20
CTS	8	5

*If shld gnd is connected to device pin 1, Leave system end to float.
the shield should be connected to the frame ground at one end only.

7318 Cables

RJ45-to-DB25 Terminal/Printer Adapter Cable - P/N65G2376 - #7904

7318 cable end

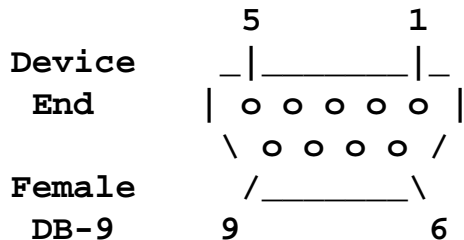
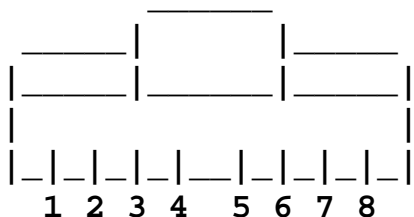


7318 RJ-45	Device DB-25
DCD 1	20 DTR
DTR 2	6 DSR
GND 5	8 DCD
GND 7	7 GND
RTS 3	5 CTS
RD 4	2 TD
CTS 6	4 RTS
TD 8	3 RD

WARNING: 64-port and the 128-port cables MUST not be used with 7318. Pin assignment are different and therefore not compatible.

RJ45-to-DB9 Terminal/Printer Adapter Cable - P/N65G2377 - #7905

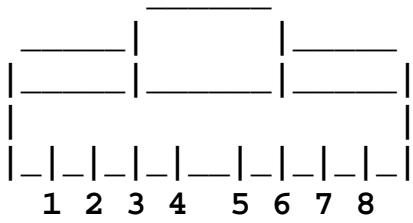
7318 cable end



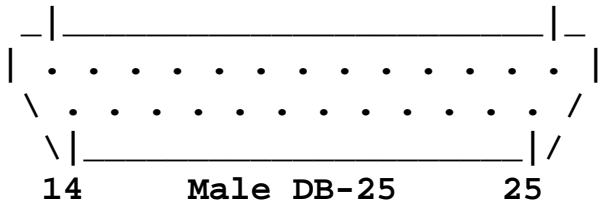
7318 RJ-45	PC DB-9
DCD 1	4 DTR
DTR 2	1 DCD
GND 5	6 DSR
GND 7	5 GND
RTS 3	8 CTS
RD 4	3 TD
CTS 6	7 RTS
TD 8	2 RD

RJ45-to-DB25 Modem Adapter - P/N 65G2375 - #7903

7318 cable end



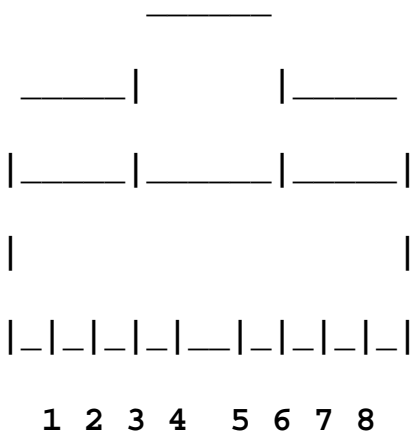
1 Device cable end 13



7318 RJ-45		Modem DB-25	
DCD	1	8	DCD
DTR	2	20	DTR
GND	5	22	RI
GND	7	7	GND
RTS	3	4	RTS
RD	4	3	RD
CTS	6	5	CTS
TD	8	2	TD

Extended RS-232D Modem Control Y-Cable - P/N65G2374 - #7902

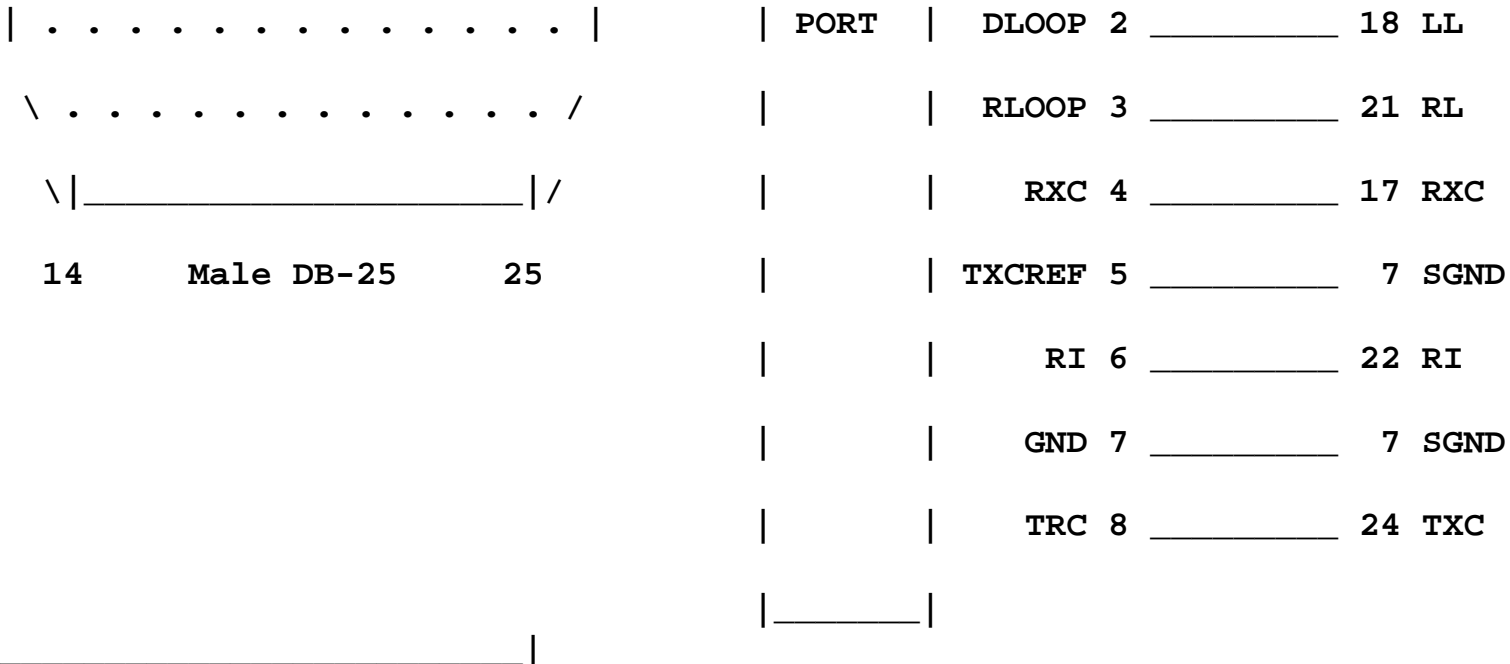
7318 cable end



1 Device cable end 13

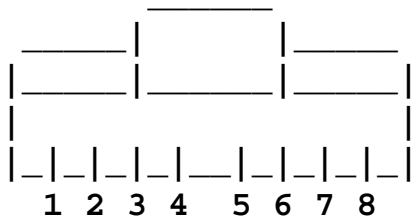


	RJ-45	7318	Modem DB25
EVENT	DCD	1	8 DCD
PORT	DTR	2	20 DTR
	RTS	3	4 RTS
	RD	4	3 RD
	RDREF	5	7 SGND
	CTS	6	5 CTS
	GND	7	7 GND
	TD	8	2 TD
ODD	DSR	1	6 DSR



RJ45-to-Macintosh DIN-8 Cable - P/N 65G2378 - #7906

7318 cable end



7318 RJ-45	Macintosh DIN-8
DTR 2	7 GDI
GND 7	4 GND
DCD 1	8 RD+
CTS 6	1 HSKo
RTS 3	2 HSKI
RD 4	3 TxD-
RDREF 5	6 TxD+
TD 8	5 RD-

Other Cables

- #7901 65G2373 Cable RJ45-to-RJ45 - 10 feet
- #7907 65G2379 7318 Cable RJ45-to-MMJ - 10 feet
- #7909 65G2352 7318 Cable daisy chain

PRINTER HANDSHAKING

XON/XOFF Protocol

CABLE pin used: TD (pin-2)
RD (pin-3)
Signal Gnd (pin-7)

- When printer's buffer is full, it sends an XOFF character (CTRL-S) to tell the system to stop sending job's data momentarily.
 - Printer continues to print buffer's content. When the buffer becomes low, the printer sends a XON character (CTRL-Q) to tell the system to send job's data again.
-

DTR Protocol

CABLE pins used: TD, RD, CTS, RTS, CD (or DSR), DTR and Signal Gnd

- System CTS detects if printer is power on (RTS)
 - System CD detects if printer is on-line (READY)
 - Printer drop DTR when it is not ready to receive data.
-

DEV_WAIT or DEV_BUSY ???

The "DEV_WAIT" Status is set when the queue is waiting on the printer, because the printer is: off line, paper out, jammed paper, bad cable, lose cable, etc...

The "DEV_BUSY" Status is set when there are more than one queue defined for a printer device file (/dev/lp0), and another queue is currently using the printer device file.

SYSTEM INFO

Canadians And US Announcements - Sales Manuals

Note: Announcement letters URL are changing so often and are so long that I can't commit to have all them working. Please use the search site for canadians and usa at the bottom of this page if the tried link doesn't work.

@server pSeries:

pSeries / M/Type	CDN letter IBM Link | SSI	US Letter	Sales Manuals	On-Line Course
p5 9119-595	A04-1397	104-380	9119-595	
p5 9119-590	A04-1398	104-381	9119-590	
p5 9117-570	A04-0940	104-257	9117-570	
p5 9113-550	A04-0938	104-253	9113-550	
p5 9111-520	A04-0935	104-252	9111-520	
p610 7028- 6E1/6C1	A01-1437	101-282	6C1 | 6E1	
p615 7029- 6C3/6E3	A03-0703	103-151	6C3 | 6E3	CRU Change Video
p620 7025-6F0	A01-0758	101-154	6F0	
p620 7025-6F1	A01-0467	101-100	6F1	
p630 7028- 6C4/6E4	A02-0882 A02-1488	102-182	6C4 | 6E4	SAUWP630

p640 7026-B80	A00-1501	100-288	B80	
p650 7038-6M2	A02-1485	102-301	6M2	
p655 7039-651	A02-1499	102-302	651	
p660 7026-6H0	A01-0759	101-153	6H0	
p660 7026-6H1	A01-0484	101-101	6H1	
p660 7026-6M1	A01-1220	101-243	6M1	
p670 7040-671	A02-0466	102-080	671	
p680 7017-S85	A00-1504	100-287	S85	SAUS85
p690 7040-681	A01-1435	101-285	681	#1 | #2

- 1600 9078-160 [A01-1660](#)

- 9112-265 IntelliStation [A02-0184](#)

- 9114-275 IntelliStation [A03-0850](#)

RS/6000

RS/6000	CDN letter	US Letter	Sales Manuals	On-Line Course
7017-S80	A99-1207	199-225	S80	
S7A	A98-1411	198-238	S7A	
S70	A97-1228	197-265	S70	
7024-E30	A96-475	196-080	E30	
E20	N/A	195-295	E20	
7025-F80	A00-0639	100-132	F80	
F50	A97-0379	197-062	F50	
F40	A96-1202	196-244	F40	
F30	A96-179	196-027	F30	
7026-H80	A00-0645	100-133	H80	
H70	A99-0438	199-086	H70	
H50	A98-0161	198-006	H50	
H10	A96-1218	196-246	H10	
M80	A00-0649	100-134	M80	
7043-260	A98-1416	198-239	260	

240	<u>A96-1203</u>	<u>196-243</u>	<u>240</u>	
150	<u>A98-1417</u>	<u>198-240</u>	<u>150</u>	
140	<u>A96-1207</u>	<u>196-242</u>	<u>140</u>	
7044-270	<u>A00-0030</u>	<u>100-019</u>	<u>270</u>	
170	<u>A00-0029</u>	<u>100-018</u>	<u>170</u>	<u>SAU7044B</u>
7046-B50	<u>A99-1202</u>	<u>199-226</u>	<u>B50</u>	

9076 SP Winterhawk II [A00-0064](#)

SYSTEM INFO

HA Solutions:

HA-S70 2x7017-S70 [A98-1566](#)

MCA RS/6000:

7009-C20 [SM](#)

Adapters:

- GXT4500P #2842/GXT6500P #2843: [A02-0183](#)
- Universal 4-Port 10/100 Ethernet Adapter #4961: [A01-1224](#)
- 10/100 Mbps Ethernet PCI Adapter II #4962: [A01-1223](#)
- 4-X 4-Channel SCSI Ultra3 #2498: [A00-1508](#)
- 4-W Gigabit Fiber Channel #6228 64-bit: [A01-0486](#)
- 4-S Gigabit Fiber Channel #6227 32-bit: [A00-1506](#)
- GXT4000P #2826/GXT6000P #2827: [A00-1502](#)

Storage:

- 2104-DL1/TL1 Expandable Storage Plus [A99-1217](#)
- 2104-DU3/TU3 [A00-1514](#)
- 2105-F10 ESS Shark [A99-0498](#)
- 4.7GB DVD-RAM [A01-0755](#)
- 7311-D20 [A02-1486](#)

Tape:

- 3580 Ultrium Tape Drive [A00-0275](#)**
- 3584 UltraScalable Tape Library [A00-0276](#)**
- 3581 Ultrium Tape Autoloader [A00-0274](#)**
- 3589 Ultrium Tape Cartridges [A00-0620](#)**
- 7205-440 40GB DLT Tape Drive [A01-0302](#)**
- 7206-VXA 80GB Tape Drive [A02-0945](#)**

Software:

- AIX 5.2 [A02-1318](#)**
- AIX 5.1 [A01-0465](#)**

- AIX 4.3.3 [A99-1206](#)**
- AIX 4.3.2 [A98-1418](#)**
- AIX 4.3.1 [A98-0423](#)**
- AIX 4.3.0 [A97-1225](#)**
- AIX 4.2 [A96-474](#)**

- PSSP 3.5 [A02-1328](#)**
- PSSP 3.4 [A01-1679](#)**
- PSSP 3.2 [A00-0456](#)**

HACMP V5 [A03-0829](#)

Other:

[Ruggedized Rack - Bolting](#)

- 7139 Vicom SLIC Router FC-SL to SSA-Based Disk Subsystems [A00-0281](#)**

Rebranded TotalStorage Products

Enterprise Storage:

- ESS 800**
- ESS 750**

Departemental Storage:

FastT600 --> DS4300

FastT700 --> DS4400

FastT900 --> DS4500

Entry Storage:

FastT100 --> DS4100

Exp400 --> DS400

DS300

Announcement Search:

- [US letters](#) - Not too complicated and usually works
- [Announcement letters](#)

Last updated: Nov 2004 by BJ Croft

Machine Type	Processor Speed	Architecture
7006-41T/41W	80	PowerPC
7006-42W/42T	120	PowerPC
7007-N40	50	ThinkPad
7008-M20	33	Power
7008-M2A	33	Power
7009-C10	80	PowerPC
7009-C20	120	PowerPC
7011-220	33	PowerPC
7011-250	66	PowerPC
7011-230	45	RSC
7012-320	20	Power
7012-32H	25	Power
7012-340	33	Power
7012-350	41	Power
7012-360	50	Power
7012-365	50	Power
7012-370	62	Power
7012-375	62	Power
7012-355	41	Power
7012-380	59	Power2
7012-390	67	Power2
7012-397	160	P2SC
7012-39H	67	Power2
7012-G30	See Note 2	PowerPC
7012-G40	See Note 2	PowerPC
7013-530	25	Power
7013-540	30	Power
7013-540	30	Power
7013-53H	33	Power
7013-550	41.6	Power
7013-520	20	Power
7013-52H	25	Power
7013-560	50	Power
7013-580	62.5	Power
7013-570	50	Power
7013-590	66	Power2
7013-59H	66	Power2
7013-58H	55	Power2
7013-595	135	P2SC
7013-J30	75	PowerPC
7013-J40	112	PowerPC
7013-55L	41.6	Power
7013-591	77	Power2
7015-930	25	Power
7016-730	25	Power
7015-930	25	Power

7015-950		41	Power
7015-970		50	Power
7015-97B		50	Power
7015-980		62.5	Power
7015-98B		62.5	Power
7015-R20		66	Power2
7015-990		71.5	Power2
7015-R10		50	Power
7015-R24		71.5	P2SC
7015-R30	See Note 2		PowerPC
7015-R40	See Note 2		PowerPC
7015-R50	See Note 2		PowerPC
7017-S70		125	RS64
7017-S7A		262	RD64-II
7017-S80		450	RS-III
7017-S85	pSeries 680	600	RS64-IV
7024-E20	See Note 3		PowerPC
7024-E30	See Note 3		PowerPC
7025-F30	See Note 3		PowerPC
7025-F40	166/233		PowerPC 604e
7025-F50	See Note 4		PowerPC 604e
7025-F80	See Note 5		RS64-III
7025-6F0	pSeries 620	See Note 7	See Note 7
7025-6F1	pSeries 620	See Note 7	See Note 7
7026-H10		166/233	PowerPC 604e
7026-H50	0	See Note 4	PowerPC 604e
7026-H80		See Note 5	RS64-III
7026-M80		500	RS64-III
7026-B80	pSeries 640	See Note 9	Power3-II
7026-H10		166/233	PowerPC
7026-H50		See Note 4	PowerPC
7026-H70		340	RS64-II
7026-H80		450	PowerPC
7026-M80		500	PowerPC
7026-6H0	pSeries 660	450MHz	RS64 III
7026-6H1	pSeries 660	600MHz	RS64 IV
7026-6H1	pSeries 660	See Note 7	See Note 7
7026-6M1	pSeries 660	See Note 8	See Note 8
7028-6C1	pSeries 610	See Note 9	POWER3 II
7028-6E1	pSeries 610	See Note 9	POWER3 II
7029-6C3	pSeries 615		Power4+
7029-6E3	pSeries 615		Power4+
7030-3BT		67	Power2
7030-3AT		59	Power2
7040-681	pSeries 690	1.1 or 1.3GHz	POWER4
7043-140		166/200/233/332	PowerPC
7043-150		375	PowerPC
7043-240		166/233	PowerPC

7043-260	200	Power3
7044-170	See Note 6	POWER3 II
7044-270	375/450	POWER3 II
7046-B50	375	PowerPC 604e
7248-100	100	PowerPersonal
7248-120	120	PowerPersonal
7248-132	132	PowerPersonal
9076-SP1 Thin	62	Power
9076-SP2 Wide	66	Power2
9076-SP2 Wide	66	Power2
9076-SP2 Thin	67	Power2
9076-SP2 Thin w/L2	67	Power2
9076-SP2 Wide	77	Power2
9076-SP2 Wide	135	P2SC
9076-SP2 Thin	160	P2SC
9076-SP2 High	See Note 2	PowerPC

1. J-Series, R-Series, and G-Series systems:

You can determine the processor speed in an MCA SMP system from the FRU number of the CPU card by using the following command:

```
lscfg -vl cpucard0 | grep FRU
```

This will produce the following output:

```
FRU Number.....C1D
```

FRU Number	Processor Type	Processor Speed	
	E1D	PowerPC 601	75
	C1D	PowerPC 601	75
	C4D	PowerPC 604	112
	E4D	PowerPC 604	112
	X4D	PowerPC 604e	200



RSINFO/6000



Disks Switches & Jumpers

- [BIG Tablo](#)
- [PDF for Fast Connections](#) (See Chapter 2 to identify disk type)
- [160MB / 200MB](#)
- [355MB / 670MB](#)
- [540MB](#)
- [857MB / 1.07GB](#)
- [1GB](#)
- [1.37GB](#)
- [2GB](#)
- [2.2GB](#)
- [2.4GB](#)
- [4.5GB](#)
- [9.1GB](#)



Tape Switches & Jumpers

1/4-Inch

- [150MB](#)
- [525MB](#)
- [1.2GB](#)

8mm

- [2.3GB](#)
- [5.0GB](#)

4mm

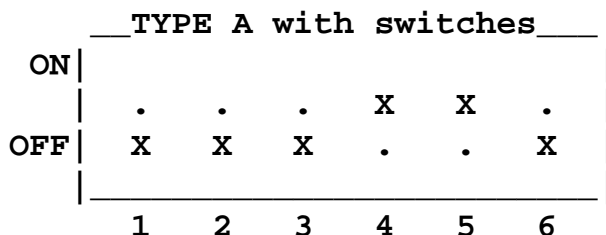
- [4.0GB](#)

CD-ROM Switches and Jumpers

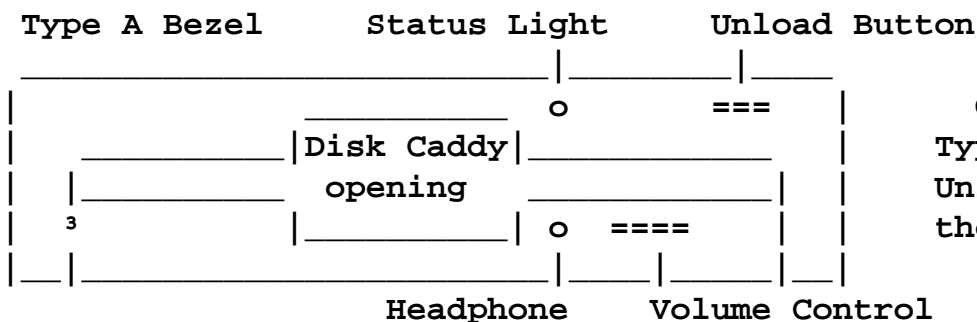
DETERMINING TYPE

Depending on the model type of CD-ROM drive, the SCSI address is set with switches (Type A) or jumpers (Type B/C) located on the rear of the drive.

Internal CDROM Type-A
SCSI Switch Setting
(NOT 7210!!!)

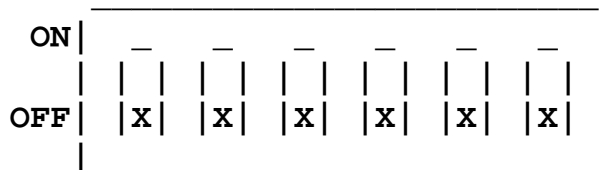


Addr	Swi/Jmp	Swi/Jmp	Swi/Jmp
0	-	-	
1	X	-	
2	-	X	
3	X	X	-
4	-	-	X
5	X	-	X
6	-	X	X



QUICK IDENTIFICATION
Type-A Status Light and
Unload Button are above
the disk slot.

When the model type of CD-ROM drive installed in a 7210 has address switches (Type A), all switches must be set to 0 (Off);



Switch Setting for a Type-A in a 7210

Internal CDROM Type-B

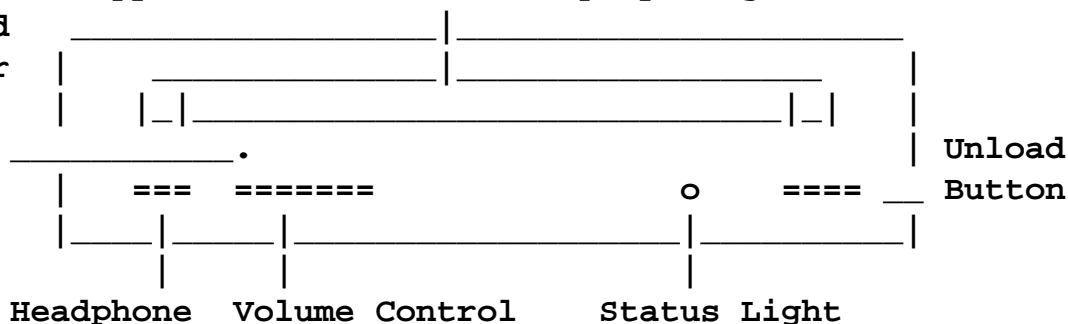
SCSI Switch Setting

SCSI Switch Setting	Addr	Jumper1	Jumper2	Jumper3
(Jmp 6, 7, 8 Factory as shown)	0	-	-	
6- Enable Media Removal	1	X	-	
7- Enable Normal Drive Operation	2	-	X	
8- Disable Drive Terminator Power	3	X	X	-
TYPE B with jumpers	4	-	-	X
X o o o X	5	X	-	X
X o o X	6	-	X	X
1 2 3 4 5 6 7 8				

QUICK IDENTIFICATION
Type-B Status Light and Unload Button are under the disk slot.

Type-B bezel Disk Caddy Opening

Emergency Eject Hole

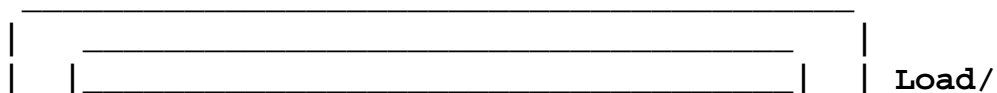


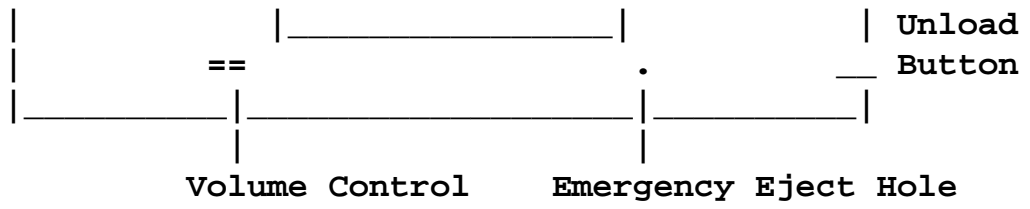
Internal CDROM Type-C

SCSI Switch Setting

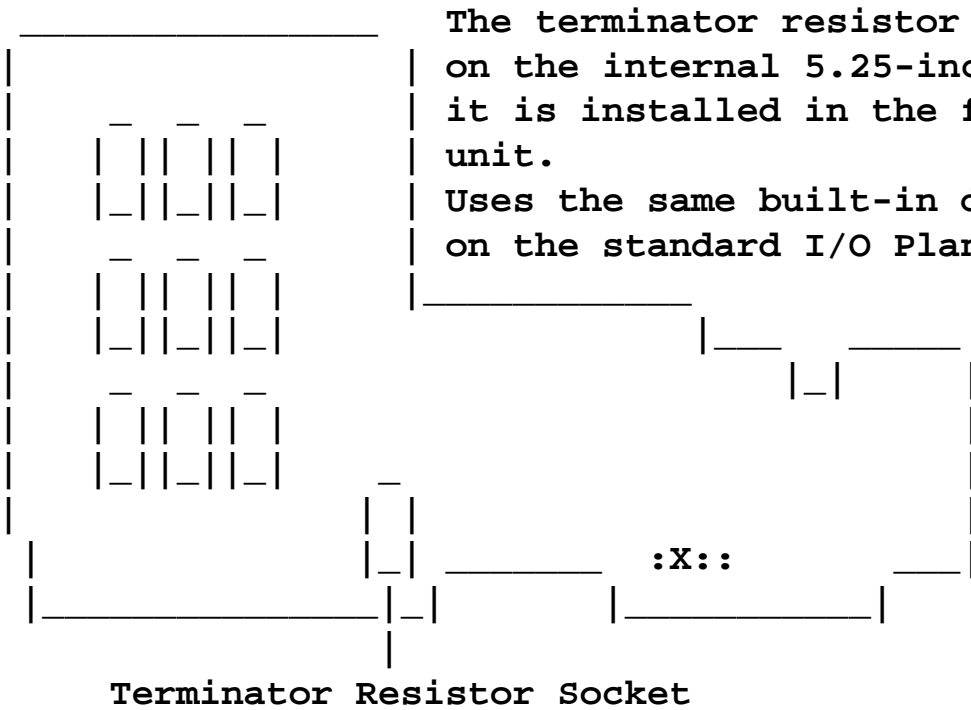
SCSI Switch Setting	Addr	Jumper1	Jumper2	Jumper3
4- Enable Odd Parity	0	-	-	
5- Sector Size	1	X	-	
6- Enable Terminator	2	-	X	
7- Enable Terminator Power	3	X	X	-
TYPE C with jumpers	4	-	-	X
X o o X o û o	5	X	-	X
X o o X o û o	6	-	X	X
1 2 3 4 5 6 7				

Type-C bezel





5.25-Inch Diskette Drive 1.2MB/360KB



The terminator resistor **MUST NOT** be installed on the internal 5.25-inch diskette drive when it is installed in the front panel of a system unit.

Uses the same built-in diskette drive adapter on the standard I/O Planar that the 3.5-inch diskette drive uses.

Capability
1.2MB Read/Write
360KB Read Only

3153: RS/600 Attach and Setup - Quick Summary

Abstract: 3153 INFO: RS/6000 ATTACH AND SETUP-QUICK SUMMARY

For most customer environments this information provides a step-by-step procedure on attaching and configuring a 3153 with a RS/6000.

Information Includes:

- [1. Cabling the 3153 \(via RS232 Main/Aux Port\) to the RS/6000](#)
- [2. Configuring the 3153 Setup Parameters \(3151 Emulation\)](#)
- [3. Adding/Setting TTY in AIX:](#)
- [4. Setting a National Language \(3153 Setup Menus and AIX\)](#)
- [5. Reference Information \(3153 and RS/6000\)](#)

Levels supported by document:

- AIX Level 4.1.5 or Greater
- AIX Level 4.2.1 or Greater
- AIX Level 4.3

[1. Cabling the 3153 \(via RS232 Main/Aux Port\) to the RS/6000](#)

The first step in setting up the 3153 to an RS/6000, is proper cabling between the 3153 and the RS/6000. Both the 3153 Main Port and the RS/6000 are DTE (Data Terminal Equipment) devices, the cabling connecting the two devices must switch the data and control lines. A cable that provides this capability is often called a Null Modem or Interpose cable. The following cable configurations provides the proper cabling to connect a 3153 to an RS/6000.

3153 SES1-EIA PORT (RS232) TO A RS/6000:

- Console (Native DB25 RS232, one-device)
12H1204 or
6323741 with 58F2861
- Console (Native DB25 RS232, two-device)
31F4590 with 12H1204 or
31F4590 with 6323741 with 58F2861
- Console (Native DB9)
40H6328 with 12H1204 or
40H6328 with 6323741 and 58F2861
- 128-port Remote Async Node (RAN):
43G0935 with 12H1204 or
43G0935 with 6323741 and 58F2861
- 8-port or 16-port Adapter:
12H1204 or
6223741 with 58F2861
- 64-port Concentrator:
53F3367 with 58F2861
- 7318 Terminal Server:
65G2373 with 65G2376

3153 SES2-AUX PORT (RS232) TO A RS/6000:

- Console (Native DB25 RS232, one-device)
6323741
- Console (Native DB25 RS232, two-device)
31F4590 with 6323741
- Console (Native DB9)
40H6328 with 6323741
- 128-port Remote Async Node (RAN):
43G0935 with 6323741
- 8-port or 16-port Adapter:
6323741
- 64-port Concentrator:
53F3367
- 7318 Terminal Server:
65G2373 with 65G2375

Notes:

1. Some 3153 models (P/N 42H0450, 42H0451, 42H0452, 42H0456, 42H0457, 42H0458, 42H0459, and 42H0465) have a RS422 Main Port. The SES2-AUX Port, which supports RS232, can be used if the 3153 is used in a single session environment, Recommend to use the choices, within:
"3153 SES2-AUX PORT (RS232) TO RS/6000:"
which is described above.

2. When the 3153 Main and/or Aux Port is selected, the 3153 Setup Menu Parameter 'Host/Printer' must be properly selected:

- 3153 Main Port: 'Host/Printer'='EIA/Par','EIA/None'
- 3153 Aux Port: 'Host/Printer'='Aux/Par','Aux/None'

After proper cabling/connection is established, the 3153 should display characters/text which may or may not be readable. Characters/text may include: garbage or special graphics, AIX command line, or SMIT. The displayed characters/text indicates communications between a 3153 and the RS/6000.

2. Configuring the 3153 Setup Parameters (3151 Emulation)

IBM 3153 factory default setup parameters were selected for RS/6000 attachment. In most cases a new 3153 will work with no changes when attached using the RS232 SES1-EIA Main Port and a standard RS/6000 adapter operating at 9600 baud. The following setup information can be used to confirm the 3153 settings and used to make changes if the 3153 has been used on another service prior to being used with the RS/6000.

3153 setup parameters determine:

- Communications for the 3153
(Main and Aux Port, Baud Rate)
- Keyboard operation and application display
(Emulation, Auto Wrap, Page Length, Return Key)

To enter 3153 setup menus:

- Press and hold left 'Ctrl' and '-' (Numeric Keypad) or Press and hold left 'Ctrl' and 'Scroll Lock'.

To set 3153 to IBM 3153 Factory Default settings:

- Press 'Print Exec' key.
- Select 'Default Terminal' and press 'Spacebar'
- Select 'Save Terminal' and press 'Spacebar'

When 'Emulation'='IBM 3151' confirm:

F1 (Quick):

'Comm Mode'='Full Duplex'

```

F2 (Genrl)
  'Auto Wrap'='On'
  'Auto Scroll'='On'
F3 (Displ):
  'Scroll'='Jump'
F4 (Kybd):
  'Key Mode'='ASCII'
F5 (Keys):
  'Return Key'='New Line'
  'Enter Key'='Return'
  'New Line'='<CR>'
  'Send Key'='Page'
  'Insert Character'='Space'
F7 (Host):
  'Local'='Off'
  'Turnaround Character'='<CR>'
F8 (Print)
  'Indep Pass Thru'='Off'
F9 (Emul):
  'Force Insert'='Line'

```

Notes:

1. If the 3153 Main Port is used as the host session:
F1 (Quick): 'Host/Printer'='EIA/Para' or 'EIA/None'
2. If the 3153 Aux Port is used as the host session:
F1 (Quick): 'Host/Printer'='Aux/Para' or 'Aux/None'
3. If the 3153 is used for dual session,
F1 (Quick): 'Sessions'='Two'
After 'Two' is selected, the second session must also be configured.
4. If the 3153 does not have an parallel printer attached:
F1 (Quick): 'Host/Printer'='EIA/None' or 'Aux/None'
5. 'EIA Baud Rate' and 'EIA Data Format' must match the RS/6000 communication port settings.
6. If the application is not displaying Line Drawing/Box characters correctly, try changing the following:
F4 (Kybd): 'Char Set'='Multinational'
The 'Code Page' parameter appears. Some applications were written to use PC (8-bit) Codes Pages (CP 437 or CP 850) or ISO 8859/1.2 (ISO-1).

3. Adding/Setting TTY in AIX:

Adding a TTY:

To add a tty to the system, log on as 'root'.
Type 'smit' or 'smitty' on the command line.
Select the following order of options from each menu.

```
#smit
DEVICES
TTY
ADD A TTY
RS232
(SELECT PARENT ADAPTER)
(SELECT PORT NUMBER)
  (Note: Press 'ESC' '4' to display port choices)
set Enable LOGIN to enable
  (This runs a login prompt)
```

Press 'Enter' and to let smit make the tty

Setting a TTY:

When a tty is set in smit, the default TERMINAL type is 'dumb'

Example:

```
  BAUD rate
[9600]
  PARITY                                     &n
sp;  [none]
  BITS per character                         [8]
  Number of STOP BITS                       [1]
  TIME before advancing to next port setting [0]
  TERMINAL type                             [dumb]
  FLOW CONTROL to be used                   [xon]
```

For most AIX command line operations this is fine; however for many AIX applications (smit, vi editor, HCON) to properly function, the terminal type must be set to match the terminal which is actually connected to the serial port.

When attaching an 3153 terminal, set the 3153 to IBM3153 emulation and then use smit to set the tty TERMINAL type:

change:


```

    TERMINAL type                                [dumb]
to:
    TERMINAL type                                [ibm3151]

```

Hit enter and let smit make the change.

Notes:

- Notice the `ibm3151` entry in `smit` is in lower case. By convention all terminal type names are in lower case. `IBM3151` will NOT work, and is considered an unknown `termttype`. Any output to the 3153 is improperly displayed.
- AIX also supports other IBM `termttype` ASCII emulations:
 - `ibm3151-C` for 3151/3153 for ISO Latin 2
 - `ibm3151-51` for 3151/3153 with PC keyboards (Page Up/Down)
 - `ibm3151-132` for 3151/3153 for use in 132-column mode
 - `ibm3151-25` for 3151/3153 for use in 25-line mode
- AIX also supports other `termttype` ASCII emulations:
 - `vt100` for DEC VT100
 - `vt220` for DEC VT220
 - `wy50` for WYSE 50
 - `wy60` for WYSE 60

To check the current `TERM` type (this is what kind of terminal the system believes that is attached). Use one of the following two commands:

On the 3153, the best command is:

```

#echo $TERM <enter>
(output)

```

On the 3153, another command is:

```

#env ^ grep TERM= <enter>
(output)

```

Where (output)=`ibm3151` or other supported AIX `TERM` type.

4. SETTING A NATIONAL LANGUAGE (3153 Setup Menus and AIX):

Within 3153 Setup Menus:

- F4 (Kybd):
 1. Set 'Char Set' = 'Multinational'

- 2 Set 'Language' to desired keyboard language.
(French, German, Spanish, Finnish)
3. Set 'Code Page' = 'ISO-1'

3153 Setup Menu Notes:

1. The 'Language' determines what keyboard language the 3153 operates in. If 'Language'='Spanish' and 'English' keyboard is attached, the 3153 operates in 'Spanish'

Within AIX:

To Determine the Current Language:

To determine the current language, type "locale".

This returns the LANG variable. Example: "LANG=en_US".

To make changes to the language, the language must be installed.

Changing the Language for an individual session:

The language can be changed for an individual session by setting LANG=xx_YY where xx_YY is the desired language specification. The xx parameter designates the language and the YY parameter designates the country code. To determine the locales there are installed, type "local -a"

```
Example: French in France:  fr_FR
         French in Canada: fr_CA
         German in Germany: de_DE
         Taiwan Chinese   zh_TW
```

If particular users want to change only their locale, users can add a line to the '.profile' in their home directory that says:

```
export LANG=de_DE
```

Changing the Language for the entire RS/6000:

- Use "smitty".
- Choose "System Environments",
then "Manage Language Environments",
then "Change/Show Primary Language Environment",
then "Change/Show Cultural Convention, Language, or Keyboard"
- Press "F4" to display a language selection menu.
- Choose the language and press enter.
- Press enter again to make the change.
- Reboot of the RS/6000 may be required.

AIX Notes:

1. The AIX `termttype` (Terminal Type) may also be required to change to `'ibm3151-C'` as mentioned above in Section 3 `'Adding/Setting TTY in AIX'`.

5. Reference Information (3153 and RS/6000)

3153 RS232 Main Port: DTE (Data Terminal Equipment)
 Pin 2 - Transmit Data (Direction-Out)
 Pin 3 - Receive Data (Direction-In)

3153 RS232 Aux Port: DCE (Data Communications Equipment)
 Pin 2 - Transmit Data (Direction-In)
 Pin 3 - Receive Data (Direction-Out)

3153 Video Elements: RS232 Main Port and RS232 Aux Port:
 42H0400, 42H0401, 42H0402,
 42H0406, 42H0407, 42H0408, 42H0409

3153 Video Elements: RS422 Main Port and RS232 Aux Port:
 42H0450, 42H0451, 42H0452,
 42H0456, 42H0457, 42H0457, 42H0459

RS/6000 Cable (Part Number, Description) Reference Information:

P/N 12H1204: RS232 Printer/Terminal Cable (Null Modem Cable)
 10-foot, Receptacle DB25 to Plug DB25
 RS/6000 Feature Code: 2934, RS/6000 Cable: "I"

P/N 31F4590: DB25 to Dual DB25 Splitter Y-Cable
 6-inch, Receptacle DB25 to Dual Plug DB25
 RS/6000 Feature Code: 3107, RS/6000 Cable: "AS"

P/N 40H6328: DB9 to DB25 Converter Cable
 1-Foot, Receptacle DB9 to Plug DB25
 RS/6000 Feature Code: 3107, RS/6000 Cable: "AR"

P/N 43G0935: RJ45 to DB25 Converter (128-port RAN) Cable
 2-foot, Plug RJ45 to Plug DB25
 RS/6000 Feature Code: 8133, RS/6000 Cable: "NK"

P/N 58F2861: Printer/Terminal Interposer (Null Modem Adapter)
 2-inch, Receptacle DB25 to Plug DB25
 RS/6000 Feature Code: 2937, RS/6000 Cable: "E"

P/N 6323741: Async RS232 Cable (Straight Modem Cable)
 10-foot, Receptacle DB25 to Plug DB25

RS/6000 Feature Code: 2936, RS/6000 Cable: "D"

P/N 65G2373: RJ45 to RJ45 Extender Cable

10-foot, Plug RJ45 to Plug RJ45

RS/6000 Feature Code: 7901

P/N 65G2375: RJ45 to DB25 Adapter

2-inch, Receptacle RJ45 to Plug DB25

RS/6000 Feature Code: 7903

P/N 65G2376: RJ45 to DB25 Adapter

2-inch, Receptacle RJ45 to Plug DB25

RS/6000 Feature Code: 7904

RS/6000 64-port and 128-port Async Controller Information:

128-port Async Controller via 16-port Remote Async Nodes (RAN):

- Black Box with 16 telephone phone jacks (RJ-45), all on one side, and with Control Lights/LED windows on the other side.

Front View of the 16-port RAN:

```

+-----+
|                                             &
| bsp;          |
|               |
| bsp;  ----- |
|   TD  RD  RTS CTS DSR CD  DTR  RI  OFC  IFC  | AC  | |
|   o   o   o   o   o   o   o   o   o   o   |   | |
|                                             &
| bsp;  ----- |
+-----+

```

Rear view of the 16-port RAN (RJ-45):

```

+-----+
|                                             &
| bsp;          |
|   0   1   2   3           11  12  13  14  15  |
|   --- --- --- ---           --- --- --- --- --- |
|   | | | | | | | |           | | | | | | | | | | |
|   - - - - -                 - - - - -         |
+-----+

```

64-port Async Controller via 16-port Async Concentrator:

- Black Box with single blinking LED with 16 telephone phone (RJ-45) jacks (8 on each side).

Front View of the 16-port Async Concentrator (RJ-45):

0	1	2	3	4	5	6	7
-	-	-	-	-	-	-	-

Rear view of the 16-port Async Concentrator (RJ-45):

8	9	10	11	12	13	14	15
-	-	-	-	-	-	-	-

```
=====
| End of 3153 information
sp;      |
```

```
&n
```

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04/06/1999

3153 emulating a 3151 console

F1 Quick

Emulation=IBM 3151, EIA Baud Rate=9600, EIA Data Format=8/1/N
Enhanced=On, Aux Baud Rate=9600, AUX Data Format=8/1/n
Comm Mode=Full Duplex, Language=U.S., Sessions=One
Host/Printer=EIA/None

F2 Genrl

Emulation=IBM3151, Enhanced=On, AutoWRap=On
Curs Dir=Left to Right, Auto Scroll=On, Monitor Mode = Off
Screen Saver=15min, Bell Volume=06, Warning Bell=On
Bell Length=140 ms, Setup Lang=U.S., Sessions=Two

F3 Displ

Display CURson=On, Curson=Steady Block, Viewports=1
Pages=01, Page Length=24, Screen Video=Normal
Columns=80, Scroll=Jump, Overscan Borders=On,
Width Change Clear=Off, Speed=Fast, Refresh Rate=71 Hz

F4 Kybd - Char Set depends on LANG variable for En_US

Langeuage=U.S. Char Set=National, Key Mode=ASCII
Keyclick=Off, Key Repeat=On, Key Rate= 20 cps
Margin Bell=Off, Key Lock=Caps, Caps Lock=Toggle,
Num Lock=Toggle

F5 Keys

Return Key=New Line, Enter Key=Return, New Line=
Send Key=Page, Insert Character=Space, Backspace=/
Desk Acc=Ctrl<-, Pound Key=U.S., Return Key Repeat=Off,
UDKs=Emul Dependent

F6 Ports

EIA Baud Rate=9600, EIA Data Format=8/1/N, EIA Parity Check=Off
Aux Baud Rate=9600, AUX Data Format=8/1/N, Aux Parity Check=Off
EIA Xmt=Xon-Xoff, EIA Recv=Xon-Xoff(XPC) EIA Xmt Pace=Baud
Aux Xmt=xon-Xoff, Aux Recv=Xon-Xoff(XPC) Aux Xmt Pace=Baud

F7 Hosts

Comm Mode=Full Duplex, Local=Off, Null Supress=Off
Break=500 ms, Line Control=IPRTS, Disconnect=2 sec
Recv =, Recv

=Ignore, Send ACK=Off,
Turnaround Char=, Send Null Supress=On

F8Print

Print=National, Prnt Line TErM= Prnt BLock TErM=None
Secondary Recv=On, Indep Pass Thru=Off

F9Emul

Char Set=National, Status Line=Indicator WP=Graphics=On
Force Inser=Off, Set Control=Permanent

F10 Tabs

Auto Init Tabs=Off, Default Tabs, Every 10, Tab=Field,

F11 AnsBk

Answerback Mode=Off, Answerback Conceal
Answerback Message: blank, bytes Remaining: 0542

F12 Prog

No keys programmed.

3153 Tips

3153: Common Questions, Information and Troubleshooting

Below is information that provides information on attaching, installing and using a 3153. There are several IBM Web Sites that contains more information on the 3153. There are over 60 Tips (Info and Troubleshooting) on the following IBM Web Sites:

- IBM Technical Support (Internet)
 - URL:<http://service.software.ibm.com>
 - Select 'RS6000 Technical Support', 'Databases', 'Hints & Tips', then 'IBM 3153 Support Documents'.
- IBM Washington Systems (RS6000, AS400, S390) Center (Intranet):
 - URL:<http://w3.ibm.com/support/wsc/>
 - Select 'RS/6000 Networking and Printer Technologies'

The Tips are also on RETAIN. For persons with access to RETAIN the 3153 Tip Index RETAIN Tip is H161168.

3153 QUESTIONS:

Q1. What ASCII/ANSI/PCTerm emulations does the 3153 support?

A1. All 3153 emulate: DEC VT300/VT200/VT100, WYSE 50/60, SCO Console, Televideo 925, PC Term, ADDS Viewpoint. 3153 models announced after September 1995 include IBM 3151 emulation.

Q2. How many serial communication ports does the 3153 have?

A2. The 3153 includes two serial ports. The serial ports can be configured for:

- Single Session, No Printer or Serial Printer or Parallel Printer
- Dual Session, No Printer or Parallel Printer

Q3. Is dual or multiple sessions supported?

A3. The 3153 supports dual session by dual port using the two serial

ports. Users switch between sessions by pressing 'Ctrl-Shift-Enter'
Each session can have its own unique configuration.

Q4. How many pages of memory are supported?

A4. Between 1 to 10. The number of pages is dependent on: emulation,
80/132 column mode, single/dual session and number of rows per page.
The 3153 Marketing Reference Guide includes a table on the number
of pages supported.

Q5. Does the 3153 have a parallel printer port?

A5. Yes

Q6. Are the 3151 and 3153 keyboards interchangeable?

A6. No. The 3151 keyboard has a modular RJ45 keyboard interface and the
3153 keyboard has a modular RJ11 keyboard interface.

Q7. Does the 3153 include a tilt-swivel stand?

A7. Yes. The tilt-swivel stand is not detachable.

Q8. What keyboard languages, character sets does the 3153 support?

A8. The 3153 supports 29 keyboard languages and 17 8-bit multinational
character sets. 3153 supports only single-byte character sets
(SBCS). The 3153 Marketing Reference Guide includes tables
on the keyboard and character set support.

Q9. Can the 3153 display multiple sessions?

A9. Yes. The 3153 supports 49 rows. Users can configure for two
sessions and each session configured for 24, 32, or 43 rows.
The 3153 displays the sessions in a top-bottom format.

Q10. Does the 3153 include communication and printer cables?

A10. No. There are too many choices when cabling to an RS/6000.
For example: RS232/RS422, distance, physical connections,
modem-null modem.

3153 INFO: MARKETING REFERENCE GUIDE (G520-9415)

=====
A 30-page 3153 Marketing Reference Guide (G520-9415) is available.

The 3153 Marketing Reference Guide contains:

- 3153 Feature/Function and Technical Specifications Information
- Communication and Parallel Ports, Dual Session, Setup Menus

- 3153 Keyboards and Keyboard Languages Information
- 3153 Warranty/Service/Maintenance Information
- 3153 Model, Part Number Information (Worldwide)
- 3153 Host/Printer Cabling/Communication Information (RS/6000)
- 3153 Recommended Setup Values/Configuration Information (RS/600)

To obtain a copy of the 3153 Marketing Reference Guide via:

IBMFAX Information Service:

- call 1-800-IBM-4FAX (US only) and request document #5704

IBM PC Company Fax System:

- call 1-800-IBM-3395 (US only) and request document #10005

3153 INFO: ATTACHMENT, CABLING AND RECOMMENDED SETUP (RS/6000)

=====
The 3153 Marketing Reference Guide (G520-9415) has information regarding 3153 cabling and setup menus for RS/6000.

3153 INFO: COMMUNICATION PORT, PARALLEL PORT INTERFACE

=====
The 3153 Marketing Reference Guide (G520-9415) has information regarding the 3153 serial communication ports, and parallel port.

Information includes:

- RS232 and RS422 pin information
- Main Port (SES1-EIA): interface, usage, connector type
- Auxiliary Port (SES1-AUX): interface, usage, connector type
- Parallel Port (PAR): usage, connector type

3153 Main/Auxiliary Communication Port Highlights:

- Main Port (SES1-EIA):
 - RS-232 or RS-422 (based on the 3153 model)
 - When RS-232 interface, configured as a DTE
 - Usage: Host (direct attach or modem) or serial printer
- Auxiliary Port (SES2-AUX):
 - Always RS-232 interface, configured as a DCE
 - Usage: Host (direct attach or modem) or serial printer

3153 KEY NOT WORKING: PRESSING ANY KEY ON THE KEYBOARD

=====

This covers the following similar problems/symptoms related to:

- 3153 does not display anything, there is no video.
- 3153 does not display data, information or the application.
- 3153 does not communicate, no communication.
- 3153 screen is blank, cursor is in the upper left corner and does not move.
- 3153 does not do anything when any keys are pressed.

Background Information:

This is a common problem for ASCII terminals (3151, 3153, WYSE, DEC).

The problems/symptoms listed above mostly result from:

- Increases in the 3153 brightness, contrast levels. The 3153 brightness, contrast controls are located on the right side of the 3153 video element.
- Communication, cabling, connection to a host system (RS/6000).
Specific Items include:
 - Is the correct serial cable (modem or null-modem) used?
 - Is the serial cable attached to the correct 3153 serial port?
 - Is the communication port on the host (RS/6000) initialized or activated?

Persons should know:

- What is the host serial port interface:
 - Is the interface RS232 or RS422?
 - When the host interface is RS232, is the host port configured as a DCE (Data Communications Equipment) or a configured as a DTE (Data Terminal Equipment)?
- What is the 3153 serial port interface:
 - Is the interface RS232 or RS422.
 - When the 3153 interface is RS232, the 3153 Main Serial Port is configured as a DTE (Data Terminal Equipment) and the 3153 Auxiliary Serial Port is configured as a DTE (Data Terminal Equipment).
- When connecting:
 - A DTE to DTE or DCE to DCE devices together, a null-modem cable is required. If a modem cable is used, no communication occurs.
 - A DTE to DCE devices together, a modem cable is required. If a null-modem cable is used, no communications occurs.
- When persons type or press keys on the keyboard, the 3153 sends a character or a sequence of characters to the host. The host is responsible for the processing of the character or sequence of characters. Processing may include:

- Echoing the character back to the 3153.
- Processing a character sequence (moving the cursor up, insert or delete operations).

Recommended Solution:

3153 DOES NOT DISPLAY ANYTHING, THERE IS NO VIDEO:

- Using the 3153 brightness, contrast controls (on the right hand side of the video element) increase the brightness and or contrast.
NOTE: 3153 offers Screen Saver (CRT Saver, Auto Dim).
When the 3153 is Screen Saver Mode, the 3153 video element is blank. Press any key to exit 3153 Screen Saver Mode.
- If the 3153 properly performs its power-on sequence, the 3153 should display a cursor, characters or a status line on the 3153.
- This confirms that the 3153 video portion of the 3153 video element is working properly.

3153 DOES NOT COMMUNICATE, OR NO DATA IS DISPLAYED, OR THE SCREEN IS BLANK WITH A CURSOR IN THE UPPER LEFT CORNER:

- Confirm the 3153 setup parameter 'Host/Printer' is correct:
 - If the host port is the 3153 SES1 EIA port, 3153 'Host/Printer' must set to 'EIA/Aux', or 'EIA/Para' or 'EIA/None'.
 - If the host port is the 3153 SES2 AUX port, 3153 'Host/Printer' must set to 'Aux/EIA', or 'Aux/Para' or 'EIA/Nove'.
- Confirm that the communications cable (modem versus null-modem) is correct:
 - DTE Host Port to DTE 3153 EIA Port: Need null-modem cable.
 - DCE Host Port to DTE 3153 EIA Port: Need modem cable.
 - DTE Host Port to DCE 3153 Aux Port: Need modem cable.
 - DCE Host Port to DCE 3153 Aux Port: Need null-modem cable.

Problem Determination Tips:

The following items may assist with problem determination:

- Tip 1:
 - In 3153 setup menu, set 'Local'='On' then exit 3153 setup.
 - Press alphanumeric keys and cursor keys. The alphanumeric characters should appear or the cursor should move.
 - These steps indicate that the 3153 is working properly.
 - In 3153 setup menu, set 'Local'='Off' then exit 3153 setup.
- Tip 2:
 - If there is a nearby working 3151 or 3153, 'swap' the communications cable between the 'working 3151/3153' and the 'not working 3153' If the 'not working 3153' begins to work properly, this indicates that the 3153 is working

properly. The problem is an incorrect communications cable or the host system does not have the host port initialized.

3153 KEY NOT WORKING: F1, F3, F7, F8, OR F12 (FUNCTION KEYS)

Background Information:

Function keys typically sends the host an ASCII character sequence when pressed. The ASCII character sequence needs to match what the host operating system or application. The host operating system or application then determines how to process the function key that was pressed.

Function keys can be re-defined from the 3153 Setup menus and also can be redefined from the host.

The supported function keys are also emulation dependent.

For example:

- IBM 3151 Emulation supports 36 function keys (unshifted, shifted, Control-shift F1 to F12). IBM 3153 emulation does not support Alt-shift F1 to F12. 3151 emulation supports:
 - F1 to F12 (requires unshifted F1 to F12)
 - F13 to F24 (requires shift F1 to F12)
 - F25 to F36 (requires ctrl-shift F1 to F12)
- IBM 3151 Emulation 'Turnaround Character' determines if the function keys will work properly.
- DEC VT200 Emulation supports F6 to F20 function keys.
- WYSE 50/60 Emulation supports 32 function keys (unshifted, shifted F1 to F16).

When configured for 3151 emulation, the 3153 Function Keys (F1 to F36) default values are:

Key	ASCII Sequence
F1	Esc a LTA
F2	Esc b LTA
(unshift F1 to F12)	
F11	Esc k LTA
F12	Esc l LTA
F13	Esc ! a LTA
F14	Esc ! b LTA
(shift F1 to F12)	

F23 Esc ! k LTA

F24 Esc ! l LTA

F25 Esc " a LTA

F26 Esc " b LTA

(ctrl-shift F1 to F12)

F35 Esc " k LTA

F36 Esc " l LTA

LTA is the 3153 Turnaround Character = CR, ETX, EOT, DC3

- For RS/6000 Attach: Recommend 'Turnaround Char' = 'CR'

Recommended Solution:

Persons need to be familiar with:

- Host operating system or application requirements.
- How and what function keys are supported based on the emulation (IBM, WYSE, SCO CONSOLE)
- Were the function keys re-defined in 3153 setup menus or from the host operating systems or application.

When configured for IBM 3151 emulation, in most cases the 3153 Turnaround Character is incorrect. In 3153 setup menu:

- For RS/6000 Attach: Recommend 'Turnaround Char' = 'CR'

If Turnaround Character is set correctly, contact a systems administrator, host operating system or application developer.

3153 KEY NOT WORKING: PAGE UP OR PAGE DOWN

=====

Background Information:

3153 offers a PC-style keyboard that has an 'Page Up' and 'Page Down' printed on the keyboard.

The 'Page Up' performs the 'Clear' Key Function. This key generates the following ASCII sequence: ESC L LTA

LTA is the 3151 Line Turnaround Character: ,

The 'Page Down' performs the 'Erase EOF' Key Function. This key generates the following ASCII sequence: ESC I

Recommended Solution:

Contact your systems administrator, or application programmer. The host operating system or application needs to be updated to support an 'Page Up' or 'Page Down' Keys.

For RS/6000 customers, AIX TERMINFO file needs to be updated for knp (key next page) and kpp (key previous page) function.

Notes:

For RS/6000 customers with AIX 4.2.0:

The AIX IBM TERMINFO file has a Terminal Type (TERM TYPE) that has the changes to support the Page Up and Page Down keys.

- Set AIX TERM TYPE variable to one of the following:
'ibm-3151-51' or 'ibm-3151-61' or 'ibm-3151-PS2'

Example:

```
export TERM=ibm-3151-51
export TERM=ibm-3151-61
export TERM=ibm-3151-PS2
```

3153 KEY NOT WORKING: INSERT

=====

Background Information:

When the 3153 is configured for IBM 3151 emulation, the user or the host can determine the operation of the Insert Key.

IBM 3151 emulation supports:

- Insert Character = Space
- Insert Character = Mode

Insert Character = Space:

Every time the Insert Key is pressed, the 3153 should insert a space character. When the Insert key is pressed, the 3153 is sending the host, the 'Insert Character' command. The host should echo the command back to the 3153 causing a space to be inserted.

Insert Character = Mode:

Every time the Insert Key is pressed, the 3153 toggles between Insert Mode and Non-Insert (replacement) Mode. When the 3153 is in Insert Mode, every alphanumeric key that

is pressed, the 3153 inserts that alphanumeric character. When the alphanumeric key is pressed, the 3153 is sending the host, the 'Insert Character' command. The host should the command back to the 3153 causing a character to be inserted.

The Insert Character can be selected by the:

- User by entering 3153 setup menu, and selecting 'F5 Keys' setup menu.
- Host Application by using the IBM 3151 Set/Read Control 3 Command. Refer to IBM 3153 or IBM 3151 Programmers Reference Manual.

Recommended Solution:

Change the 3153 setup value of 'Insert Character' from 'Mode' to 'Space'; or 'Space' to 'Mode'.

Notes:

For RS/6000 attachment, recommend to set 'Insert Character' = Space.

3153 KEY NOT WORKING: DELETE

=====
Background Information:

When the 3153 Delete key is pressed, the 3153 sends to the host the Delete ASCII sequence (based on the ASCII/ANSI emulation selected). The host operation system/application determines how the Delete ASCII sequence is processed.

Based on the ASCII/ANSI emulation, the 3153 Delete Key sends a unique Delete ASCII sequence.

Recommended Solution:

If the Delete Key is not working as expected, contact the programmer, application developer or systems administrator. The problem is within the host operating system or host application.

3153 KEY NOT WORKING: PRINT OR PRINT LINE

=====
Problem/Symptom:

This item covers the following Problems/Symptoms related to using/attaching printers attached to the 3153:

- Printer is not printing any data. Nothing is being printed.
- Print key or Print Screen key not working.
- Printer is printing garbage or junk data, characters.
- Printer is not printing all the data. Some data is missing.

Background Information:

There are several components of printer operations associated with a 3153:

- Physical attachment of a printer to the 3153 serial or parallel ports. Correct 3153 port, correct printer cable and correct 3153 setup parameters.
- The definition of the printer that is attached to the 3153. Is the printer a 'system' defined printer where the host is controlling the printer. Is the printer being used as local 3153 printer where the 3153 is locally controller the printer.
- The definition of the 3153 Print, Print Keys (if the 3153 keyboard is being used for print operations). This definition is dependent on the emulation (IBM, DEC, WYSE).

These components determine the operation of the printer.

Persons need to know the components related to printer attachment to the 3153.

Incorrect operation may result in:

- No data, nothing is being printed or printing.
- Print Key, Print Screen key not working.
- Garbage or junk characters, data being printed.
- Missing data, some data not being printed.

Recommended Solution:

NO DATA, NOTHING IS BEING PRINTED OR PRINTING:

Confirm Proper Printer Connection/Cabling to the 3153:

These steps confirms proper attachment to the 3153. It confirms that the 3153 can print to an attached printer.

This step confirms:

- Proper printer (serial versus parallel) is attached and is attached to the proper 3153 port.
- Printer has proper cable (serial versus parallel)

- 3153 has correct 'Host/Printer' setup parameter.
Use the 3153 Print-Page Local Key, 3153 Users Guide Appendix A, and print the 3153 setup menus.

- Enter 3153 setup menu.

Press and Hold the Left-Ctrl with the left-shift key, at the same time pressing the (./Del) Numeric Keypad Key.

- If 3153 Setup Menu Prints: Printer, 3153 are properly configured, connected and cabled.
- If 3153 Setup Menu Does Not Print: Printer, 3153 are not properly configured or cabled. Items to check are:
 - If the Printer is a Parallel Printer:
 - Must be attached to the 3153 Parallel Port.
 - Must have a parallel printer cable.
 - 3153 'Host/Printer' must be 'EIA/Para' or 'Aux/Para'
 - If the Printer is a Serial Printer:
 - Must be attached to a serial Port (SES1-EIA,SES2-AUX)
 - SES1-EIA: Port is configured as a DTE
 - 3153 Setup Parameter 'Host/Printer'='Aux/EIA'
 - SES2-AUX: Port is configured as a DCE.
 - 3153 Setup Parameter 'Host/Printer'='EIA/Aux'
 - Is the printer is a DTE or DCE?
 - DTE to DTE or DCE to DCE requires a null-modem cable.
 - DTE to DCE requires a modem cable.

PRINT KEY, OR PRINT SCREEN KEY NOT WORKING:

Confirm that the printer can print when attached to the 3153 by following 'NO DATA, NOTHING IS BEING PRINTED OR PRINTING' listed above. If the 3153 Setup Menus print correctly, the 3153 and printer are properly configured, connected and cabled, continue with the information described below:

The operation of the Print, Print Screen key is dependent on the emulation (IBM, DEC, WYSE):

- IBM: The 3153 power-on with Print Key Host Attention Mode Off. When a Print key is pressed, all the data displayed is sent to the printer without host involvement. The host operating system or application can enable the Print Key Host Attention Mode On. When a Print key is pressed the 3153 sends the host an ASCII Character Sequence indicating that a Print Key was pressed. The host is responsible for processing/handling the print key. To determine if Print Key Host Attention Mode is On, in 3153 setup, set 'Local'='On' and the Print Key again. This confirms that an character sequence is being sent to the host when the Print key pressed. The host operating system or application is

responsible for proper processing/handling. Recommend to contact a systems administrator or application programmer.

- DEC: The Print Key along the top-right row of keys is not defined. Recommend re-defining the Print Key, in 3153 setup, by specifying 'ESC x5B i' sequence and 'Key Dir'='Screen'. This should get the Print Key to execute a screen print. Note x5B is a hex 'x'5B'.

Reference: 3153 Users Guide 'Setup', section 'Program: F12'.

- WYSE: When a Print Key is pressed the 3153 sends the host an ASCII Character sequence indicating that a Print Key was pressed. The host is responsible for processing/handling the print key. To confirm this, in 3153 setup, set 'Local'='On' and the Print Key again. This confirms that a 'ESC P' ASCII character sequence is being sent when 'Local'='Off'. The 3153 setup menus allow function keys to be redefined. Recommend re-defining the Print Key by specifying 'ESC P' as the sequence and 'Key Dir'='Screen'. This should get the Print Key to execute a screen print.

Reference: 3153 Users Guide 'Setup', section 'Program: F12'.

Persons need to know operation, definition or Print Keys for the emulation selected.

PRINTER IS PRINTING GARBAGE, JUNK CHARACTERS OR DATA.

Confirm that the printer can print when attached to the 3153 by following 'NO DATA, NOTHING IS BEING PRINTED OR PRINTING' listed above. If the 3153 Setup Menus print correctly, the communication values between the 3153 and printer are correct. Continue with the information below.

The printer printing garbage or junk data is a result of the commands being sent by the host operating system or application. Recommend to contact system administrator or application programmer.

PRINTER IS NOT PRINTING ALL THE DATA (SOME DATA IS MISSING):

This symptom is typically caused by:

- Communication Pacing (XON/XOFF, DTR/DSR) not enabled between the 3153 and printer. Review the 3153 and printer setup Communication Pacing values. To confirm that this symptom is related to a Communication Pacing, lower the 3153 Communication Baud Rate (1200 or 2400) between 3153 and host. Retry print operation. If the printer prints all the expected data, then the missing data is due to 3153-Printer setup communication Pacing parameters. If the printer does not print all the expected data, the host operating system or application

may not be actually all the data. Need to contact the systems administrator or application programmer.

3153 KEY NOT WORKING: ENTER

Background Information:

When the 3153 is configured for IBM 3151 emulation, the user or the host can determine the operation of the Enter Key (numeric keypad).

The 3153 Enter Key is the bottom right key on the numeric keypad and is labeled 'Enter'. Note: The key above the right shift key is the 'Return Key'.

IBM 3151 emulation supports:

- Enter Key = Return (3153 factory default setting)
- Enter Key = Send

Enter Key = Return

Every time the Enter Key is pressed the 3153 performs Return Key operation. Note: The Return Key can be set to New Line or Field.

Enter Key = Send

Every time the Enter Key is pressed the 3153 performs Send Key operation. Note: The Send Key can be set to Page or Line.

The Enter Key can be selected by the:

- User by entering 3153 setup menu, and selecting 'F5 Keys' setup menu.
- Host Application by using the IBM 3151 Set/Read Control 2 Command.

Recommended Solution:

If the Enter Key (numeric keypad) is not working, using the 3153 setup menus change the 'Enter Key' setup parameter from 'Send' to 'Return'; or 'Return' to 'Send'.

If the Enter Key (above the right shift, which is the Return Key) is not working, using the 3153 setup menus change the 'Return Key' from 'Field' to 'New Line'; or 'New Line' to 'Field'.

Notes:

For RS/6000 attachment, recommend to set 'Enter Key' = 'Return' and
and 'Return Key' = 'New Line'

3153 KEY NOT WORKING: RETURN

Background Information:

When the 3153 is configured for IBM 3151 emulation, the user
or the host can determine the operation of the Return Key.

The 3153 Return Key is above the right shift key and is labeled
'Return' or 'Enter' (based on ASCII style or PC style keyboard).

IBM 3151 emulation supports:

- Return Key = New Line (3153 factory default setting)
- Return Key = Field

Return Key = New Line

Every time the Return Key is pressed the 3153 performs
New Line operation. The Return Key sends a or
based on the 3153 New Line Setup option.

Return Key = Field

Every time the Return Key is pressed the 3153 performs Field operation.

The Return Key can be selected by the:

- User by entering 3153 setup menu, and selecting 'F5 Keys' setup menu.
- Host Application by using the IBM 3151 Set/Read Control 3 Command.

Recommended Solution:

If the Return is not working, using the 3153 setup menus and
change the 'Return Key' setup parameter from 'Field' to
'New Line' or 'New Line' to 'Field'.

Notes:

For RS/6000 attachment, recommend to set 'Return Key' = 'New Line'.

3153 DISPLAYS NOTHING (NO VIDEO), BLANK SCREEN, CURSOR DOES NOT MOVE

This item covers the following similar problems/symptoms related to:

- 3153 does not display anything, there is no video.
- 3153 does not display data, information or the application.
- 3153 does not communicate, no communication.
- 3153 screen is blank, cursor is in the upper left corner and does not move.
- 3153 does not do anything when any keys are pressed.

Background Information:

This is a common problem for ASCII terminals (3151, 3153, WYSE, DEC).

The problems/symptoms listed above mostly result from:

- Increases in the 3153 brightness, contrast levels. The 3153 brightness, contrast controls are located on the right side of the 3153 video element.
- Communication, cabling, connection to a host system (RS/6000).

Specific Items include:

- Is the correct serial cable (modem or null-modem) used?
- Is the serial cable attached to the correct 3153 serial port?
- Is the communication port on the host (RS/6000) activated?

Persons should know:

- What is the host serial port interface:
 - Is the interface RS232 or RS422?
 - When the host interface is RS232, is the host port configured as a DCE (Data Communications Equipment) or a configured as a DTE (Data Terminal Equipment)?
- What is the 3153 serial port interface:
 - Is the interface RS232 or RS422.
 - When the 3153 interface is RS232, the 3153 Main Serial Port is configured as a DTE (Data Terminal Equipment) and the 3153 Auxiliary Serial Port is configured as a DTE (Data Terminal Equipment).
- When connecting:
 - A DTE to DTE or DCE to DCE devices together, a null-modem cable is required. If a modem cable is used, no communication occurs.
 - A DTE to DCE devices together, a modem cable is required. If a null-modem cable is used, no communications occurs.
- When persons type or press keys on the keyboard, the 3153 sends a character or a sequence of characters to the host. The host is responsible for the processing of the character or sequence of characters. Processing may include:
 - Echoing the character back to the 3153.

- Processing a character sequence (moving the cursor up, insert or delete operations).

Recommended Solution:

3153 DOES NOT DISPLAY ANYTHING, THERE IS NO VIDEO:

- Using the 3153 brightness, contrast controls (on the right hand side of the video element) increase the brightness and or contrast.
- NOTE: 3153 offers Screen Saver (CRT Saver, Auto Dim).
When the 3153 is Screen Saver Mode, the 3153 video element is blank. Press any key to exit 3153 Screen Saver Mode.
- If the 3153 properly performs its power-on sequence, the 3153 should display a cursor, characters or a status line on the 3153.
 - This confirms that the 3153 video portion of the 3153 video element is working properly.

3153 DOES NOT COMMUNICATE, OR NO DATA IS DISPLAYED, OR THE SCREEN IS BLANK WITH A CURSOR IN THE UPPER LEFT CORNER:

- Confirm the 3153 setup parameter 'Host/Printer' is correct:
 - If the host port is the 3153 SES1 EIA port, 3153 'Host/Printer' must set to 'EIA/Aux', or 'EIA/Para' or 'EIA/None'
 - If the host port is the 3153 SES2 AUX port, 3153 'Host/Printer' must set to 'Aux/EIA', or 'Aux/Para' or 'EIA/None'
- Confirm that the communications cable (modem versus null-modem) is correct:
 - DTE Host Port to DTE 3153 EIA Port: Need null-modem cable.
 - DCE Host Port to DTE 3153 EIA Port: Need modem cable.
 - DTE Host Port to DCE 3153 Aux Port: Need modem cable.
 - DCE Host Port to DCE 3153 Aux Port: Need null-modem cable.

Problem Determination Tips:

The following items may assist with problem determination:

- Tip 1:
 - In 3153 setup menu, set 'Local'='On' then exit 3153 setup.
 - Press alphanumeric keys and cursor keys. The alphanumeric characters should appear or the cursor should move.
 - These steps indicate that the 3153 is working properly.
 - In 3153 setup menu, set 'Local'='Off' then exit 3153 setup.
- Tip 2:
 - If there is a nearby working 3151 or 3153, 'swap' the

communications cable between the 'working 3151/3153' and the 'not working 3153' If the 'not working 3153' begins to work properly, this indicates that the 3153 is working properly. The problem is an incorrect communications cable or the host system does not have the host port initialized.

3153 DISPLAYS EXTRA BLANK LINES BETWEEN LINES OF DATA

Background:

The following items will cause the application not to display correctly:

- Emulation selected in 3153 Does Not Match Host Emulation:
 - The 3153 supports many ASCII terminal emulations (IBM 3151, DEC VT200, WYSE 50, WYSE 60). If the host operating system or application is expecting DEC emulation and the 3153 is configured for IBM 3151 emulation, the 3153 will not display the application correctly. IBM 3151, DEC VT200 and WYSE 50 commands are different. The emulation selected in the 3153 must match the host operating system or application program.
- 3153 Setup Menus:
 - Many 3153 setup parameters affect the display of an application: 3153 setup parameters include:
 - Auto Wrap, Rows, Columns, Scroll, Page Length, Recev , Character Set, Code Page.
 Persons need to know what the host operating system or application program expects. These setup values must match the host operating system or application. Review the 3153 setup menus for accuracy.

Recommended Solution:

This is a common problem for 3151, 3153 and other ASCII terminals. Persons must need to know host operating system or application program requirements. Persons should contact their systems administrator or application programmer. The Background Information above, may offer some guidance.

If there is a nearby 3151, 3153 that is working correctly, recommend looking at its setup values and compare to the not working 3153 setup values.

3153 DISPLAYS A LARGE BLOCK IN THE CENTER OF SCREEN

Problem/Symptom:

The 3153 displays a large block in the center of the 3153 when the 3153 is powered on. The large block is approximately 1-inch high and may be 2 to 7-inches wide. The large block may have characters, letters, number in it.

Background Information:

The 3153 Programmable Banner is being displayed in the center of the 3153, when the 3153 is powered on.

The 3153 allows a user to display a Banner when the 3153 is powered on. The 3153 Banner is programmable and can include letters, numbers or special characters. The 3153 Banner can store up to 30 characters.

Recommended Solution:

If the 3153 Programmable Banner is not desired, recommend to disable the 3153 Programmable Banner. To disable, or edit the 3153 Programmable Banner follow the steps below:

- Press and hold the left Ctrl key and press the Tab key. The 3153 displays 'edit banner' at the top of the 3153.
- Using the backspace key, erase all characters.
- After all characters have been erased, press the Enter/Return (above the right shift key). to save.

3153 DISPLAYS A SINGLE ROW, LINE OF CHARACTERS, DATA

Problem/Symptom:

3153 displays a single row/line of characters/data. The cursor is at the right most column. There is no characters/data below the single row/line of characters/data.

Background Information:

When 3153 setup parameter 'Auto Wrap = Off', all data received

by the 3153 is displayed on a single row. The cursor stops at the right hand side (margin) of the display. The data received overwrites itself.

When 3153 setup parameter 'Auto Wrap = On', the cursor moves to the next line, first column (left margin). The data continues to display the data.

Recommend Solution:

Change 3153 setup parameter 'Auto Wrap = On'.

Notes:

For RS/6000 attachment, recommend to set 'Auto Wrap' = 'On'.

3153 DISPLAYS PARALLEL PORT TRANSMIT ERROR CONDITION

=====

Problem/Symptom:

3153 displays 'Transmit Condition Parallel Port No Printer'

Background Information:

3153 displays 'Transmit Condition Parallel Port No Printer' when:

- 3153 is configured for a printer using the parallel port:
3153 Setup Parameter (Host/Printer=EIA/Para or Aux/Para).
- A printer is not attached.
- A Print operation is requested from the 3153 keyboard or host application or operating system.

The 3153 factory default setting for Host/Printer is EIA/Para.

Recommended Solution:

- Attach a parallel printer
(if parallel printer is desired).
- Set 3153 'Host/Printer'='EIA/None' or 'Aux/None'
(if parallel printer is not desired).

3153 ATTACH PRINTER NOT PRINTING ANY DATA, CORRECTLY

Problem/Symptom:

 This item covers the following Problems/Symptoms related to using/attaching printers attached to the 3153:

- Printer is not printing any data. Nothing is being printed.
- Print key or Print Screen key not working.
- Printer is printing garbage or junk data, characters.
- Printer is not printing all the data. Some data is missing.

Background Information:

 There are several components of printer operations associated with a 3153:

- Physical attachment of a printer to the 3153 serial or parallel ports. Correct 3153 port, correct printer cable and correct 3153 setup parameters.
- The definition of the printer that is attached to the 3153. Is the printer a 'system' defined printer where the host is controlling the printer. Is the printer being used as local 3153 printer where the 3153 is locally controller the printer.
- The definition of the 3153 Print, Print Keys (if the 3153 keyboard is being used for print operations). This definition is dependent on the emulation (IBM, DEC, WYSE).

These components determine the operation of the printer.

Persons need to know the components related to printer attachment to the 3153.

Incorrect operation may result in:

- No data, nothing is being printed or printing.
- Print Key, Print Screen key not working.
- Garbage or junk characters, data being printed.
- Missing data, some data not being printed.

Recommended Solution:

NO DATA, NOTHING IS BEING PRINTED OR PRINTING:

Confirm Proper Printer Connection/Cabling to the 3153:

These steps confirms proper attachment to the 3153. It confirms that the 3153 can print to an attached printer.

This step confirms:

- Proper printer (serial versus parallel) is attached and is attached to the proper 3153 port.

- Printer has proper cable (serial versus parallel)
- 3153 has correct 'Host/Printer' setup parameter.

Use the 3153 Print-Page Local Key, 3153 Users Guide Appendix A, and print the 3153 setup menus.

- Enter 3153 setup menu.

Press and Hold the Left-Ctrl with the left-shift key, at the same time pressing the (./Del) Numeric Keypad Key.

- If 3153 Setup Menu Prints: Printer, 3153 are properly configured, connected and cabled.
- If 3153 Setup Menu Does Not Print: Printer, 3153 are not properly configured or cabled. Items to check are:
 - If the Printer is a Parallel Printer:
 - Must be attached to the 3153 Parallel Port.
 - Must have a parallel printer cable.
 - 3153 'Host/Printer' must be 'EIA/Para' or 'Aux/Para'
 - If the Printer is a Serial Printer:
 - Must be attached to a serial Port (SES1-EIA,SES2-AUX)
 - SES1-EIA: Port is configured as a DTE
 - 3153 Setup Parameter 'Host/Printer'='Aux/EIA'
 - SES2-AUX: Port is configured as a DCE.
 - 3153 Setup Parameter 'Host/Printer'='EIA/Aux'
 - Is the printer is a DTE or DCE?
 - DTE to DTE or DCE to DCE requires a null-modem cable.
 - DTE to DCE requires a modem cable.

PRINT KEY, OR PRINT SCREEN KEY NOT WORKING:

Confirm that the printer can print when attached to the 3153 by following 'NO DATA, NOTHING IS BEING PRINTED OR PRINTING' listed above. If the 3153 Setup Menus print correctly, the 3153 and printer are properly configured, connected and cabled, continue with the information described below:

The operation of the Print, Print Screen key is dependent on the emulation (IBM, DEC, WYSE):

- IBM: The 3153 power-on with Print Key Host Attention Mode Off. When a Print key is pressed, all the data displayed is sent to the printer without host involvement. The host operating system or application can enable the Print Key Host Attention Mode On. When a Print key is pressed the 3153 sends the host an ASCII Character Sequence indicating that a Print Key was pressed. The host is responsible for processing/handling the print key. To determine if Print Key Host Attention Mode is On, in 3153 setup, set 'Local'='On' and the Print Key again. This confirms that a character sequence is being sent to the host when the Print

key pressed. The host operating system or application is responsible for proper processing/handling. Recommend to contact a systems administrator or application programmer.

- DEC: The Print Key along the top-right row of keys is not defined. Recommend re-defining the Print Key, in 3153 setup, by specifying 'ESC x5B i' sequence and 'Key Dir'='Screen'. This should get the Print Key to execute a screen print. Note x5B is a hex 'x'5B'.
Reference: 3153 Users Guide 'Setup', section 'Program: F12'.
 - WYSE: When a Print Key is pressed the 3153 sends the host an ASCII Character sequence indicating that a Print Key was pressed. The host is responsible for processing/handling the print key. To confirm this, in 3153 setup, set 'Local'='On' and the Print Key again. This confirms that a 'ESC P' ASCII character sequence is being sent when 'Local'='Off'. The 3153 setup menus allow function keys to be redefined. Recommend re-defining the Print Key by specifying 'ESC P' as the sequence and 'Key Dir'='Screen'. This should get the Print Key to execute a screen print.
Reference: 3153 Users Guide 'Setup', section 'Program: F12'.
- Persons need to know operation, definition or Print Keys for the emulation selected.

PRINTER IS PRINTING GARBAGE, JUNK CHARACTERS OR DATA.

Confirm that the printer can print when attached to the 3153 by following 'NO DATA, NOTHING IS BEING PRINTED OR PRINTING' listed above. If the 3153 Setup Menus print correctly, the communication values between the 3153 and printer are correct. Continue with the information below.

The printer printing garbage or junk data is a result of the commands being sent by the host operating system or application. Recommend to contact system administrator or application programmer.

PRINTER IS NOT PRINTING ALL THE DATA (SOME DATA IS MISSING):

This symptom is typically caused by:

- Communication Pacing (XON/XOFF, DTR/DSR) not enabled between the 3153 and printer. Review the 3153 and printer setup Communication Pacing values. To confirm that this symptom is related to a Communication Pacing, lower the 3153 Communication Baud Rate (1200 or 2400) between 3153 and host. Retry print operation. If the printer prints all the expected data, then the missing data is due to 3153-Printer setup communication Pacing parameters. If the printer does not print all the

expected data, the host operating system or application may not be actually all the data. Need to contact the systems administrator or application programmer.

3153 DUAL, MULTIPLE SESSION NOT WORKING

Problem/Symptom:

3153 dual, multiple session not working (keyboard and or communication):

- Session 1 works and Session 2 does not work.
- Session 2 works and Session 1 does not work.
- Both sessions are not working.

Background Information:

Dual (Multiple) Sessions by Multiple Ports Information:

- All 3153's support real dual session using the 3153 Main Serial Port and the 3153 Auxiliary Serial Port.
- 3153 is configured for two sessions (in 3153 setup menu 'Sessions'=Two).
- 3153 has two serial communications cables attached:
 - One cable attached to the 3153 Main Port (SES1 EIA)
 - One cable attached to the 3153 Auxiliary Port (SES2 AUX)
- The two serial communications cables may be connected to a single host (using two host ports) or to two separate host systems.
- Each 3153 session can have unique setup values (emulation, communication, keyboard setup values).
- The 3153 Parallel Port can have a printer attached and the printer can be used by either 3153 session.
- The user switches between sessions using the left-Ctrl key with the Enter Key (numeric keypad). The 3153 status
- The 3153 status line indicates the active sessions by displaying 'S1' for Session 1 and 'S2' for Session 2.

CAUTION:

- When the 3153 is configured for dual session, generally the same communications cable cannot be used for both 3153 serial ports because:
 - The 3153 Main Port is configured as a DTE (when RS-232).
The 3153 Auxiliary Port is configured as a DCE.
- If both host ports are DTE, the 3153 Main Port serial cable must be a null-modem cable and the 3153 Auxiliary serial

cable must be a modem cable. If the same communications cable is used for both the Main and Auxiliary Port, only one of the two sessions will work.

Recommended Solution:

-
- In 3153 setup menu confirm that the 3153 is configured for two sessions (in 3153 setup menu 'Sessions'=Two).
 - If one session is working and the other session is not working, determine if the communications cable (modem or null-modem) is incorrect by following:
 - Swap the communications cables between Main and Auxiliary. If both the 'working' and 'non-working' session 'moves' to the other port, the 3153 communication ports are working properly. The 'not working' session has an incorrect communications cable.

3153 LINE DRAWING, BOX CHARACTERS NOT DISPLAYING

Problem/Symptom:

The following symptoms listed below are similar:

- 3153 does not display line drawing characters
- 3153 does not display box characters
- 3153 does not display window borders correctly
- 3153 does displays letters, instead of window border

Background Information:

This is a common problem with ASCII terminals (3151, 3153, WYSE, DEC).

- HOST CONTROL:

- The host operating system and application program can control what character set, or code page is displayed when configured for IBM 3151, DEC VT200, WYSE 50, or WYSE 60. Each emulation has its own method of displaying character sets and code pages.

- 3153 SETUP PARAMETERS:

- The 3153 setup parameters also affect character set and code page displayed:
 - Character Set: National or Multinational
 - Code Page: CP437, CP850, ISO-1 (ISO 8859)
 - EIA Data Format: 7-bit or 8-bit mode

Recommended Solution:

-
- When configured for IBM 3151 emulation, recommend to modify 3153 setup parameters (in 3153 setup menus):
 - set 'Character Set'='Multinational' and try the following various code pages:
 - 'Code Page'='CP437'
 - 'Code Page'='CP650'
 - 'Code Page'='ISO-1'
 - If the above recommendation solution, does not correct it, recommend to contact the systems administrator, application programmer.

Notes:

-
- For programming information on the 3153 and 3153, refer to 3153 Programmers Reference Manual (GC30-3707)
3151 Programmers Reference Manual (GA18-2634)
 - For information on Character Sets, Code Pages and Keyboard Layouts, refer to:
 - National Language Support Reference Manual-Vol 2 (SE09-8002)
 - Keyboards and Code Pages - PC DOS 7 (S83G-9310)
 - For 3153 supported keyboards, character sets and code pages, refer to the 3153 Marketing Reference Guide (G520-9415).

3153 NOT SAVING (LOSING) SETUP PARAMETERS

=====

Problem/Symptom:

The 3153 is not saving setup values or loses its setup values or changes its setup values:

Background Information:

There are several causes for a 3153 losing, not saving or changing its setup values.

- Host Operating System/Application (Change Setup Commands):
 - The host operating system or the host application can change most of the 3153 setup values by sending commands (IBM 3151, WYSE, DEC emulation) that change a 3153 setup value. These commands change the operation of the 3153. Persons must know what the host operating system, host application is controlling.

- Host Operating System/Application (Terminal Reset Commands):
The host operating system or the host application can reset the 3153 by sending the appropriate emulation reset command. Persons must know what the host operating system, host application is controlling.
- 3153 Setup Menus:
The user changes parameters in the 3153 setup menus, but does perform the 'save'. When the 3153 is powered off then on, the parameters have not been saved.

Recommended Solution:

Determine if Host Operating System/Application is changing the 3153 setup values. Do the following steps:

1. Set the 3153 setup parameters as needed.
2. Perform 3153 setup parameters save operation.
3. Power off 3153.
4. Power On 3153.
5. Confirm that the setup values have been properly saved. (This step confirms that a 'save' function was properly performed).
6. Begin/Start the host application.
7. Periodically check 3153 setup parameters.

If all the steps are followed, and sometime during step 7 a 3153 setup value is changed, the host operating system or application is changing the 3153 setup values. Persons should check with their systems administrator, systems programmer.

3153 NOT DISPLAYING CORRECTLY WHEN USING VI EDITOR (RS/6000 with AIX)

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Problem/Symptom:

The 3153 does not insert, delete or update when using vi editor.

Background Information:

When the 3153 is configured for IBM 3153 emulation, the 3153 setup parameter 'Force Insert' determines how the 3153 processes a insert (line, character) operation.

When 'Force Insert' = Off:

- If there is no space to insert or character or line,

an insert operation is not performed. The characters or line is not 'forced off' the display. The characters or line stops at the right margin (for characters) or line stops at the bottom (for line).

When 'Force Insert' = Line

- The current line is replaced by a null line and the lower lines are moved down one line. The bottom line is discarded, in other words, 'forced off' the display.

When 'Force Insert' = Character

- The current character is replaced by a null character and the following characters are moved one position to the right. The last character on the row is 'forced off' the display.

Recommended Solution:

For RS/6000 attachment, recommend to set 'Force Insert' = 'Both' or 'Line'.

3153 INFO: WORLDWIDE MODEL AND PART NUMBER

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- The Model of a 3153 is used to order the 3153 from IBM.
- The Model of a 3153 is not identified anywhere on the 3153.
- The Model of a 3153 is determined by combining:
 - 3153 video element part number (IBM manufactures Northern, Equatorial, Southern Hemisphere video elements due to the effect of the earth's magnetic fields).
 - 3153 keyboard element part number
- IBM announced two sets of 3153's:
 - Spring 1995: IBM 3153's without IBM 3151 emulation. 3153 offering RS-232 only.
 - Fall 1995: IBM 3153's with IBM 3151 emulation. 3153 models that offered RS-422.
- This section does not the 3153 Keyboard Part numbers. Recommend to obtain the 3153 Marketing Reference Guide.

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= SPRING 1995: (3153 without IBM 3151 Emulation) =

=====

- 3153 Models by Geography (Geo):

Description	US	CAN	LA	AP	EMEA
=====	===	====	===	===	====

Green, RS-232 Main Port	AG3	Gxy1	Gxy	Gxy	Gxy
Amber, RS-232 Main Port	AA3	Axy1	---	---	Axy
White, RS-232 Main Port	AW3	Wxy1	---	---	Wxy

x=specifies keyboard type:

For CAN/EMEA/LA: 'B' specifies PC-style keyboard

For AP: '1' specifies PC-style Keyboard

y=specifies keyboard language

- 3153 Video Element Part Numbers:

```
-----
Part No  Description                               Geo      FRU Part
=====  =====
25H2143  Green,Northern,RS232 Main Port            US,CAN   25H2128
25H2144  Amber,Northern,RS232 Main Port            US,CAN   25H2129
25H2145  White,Northern,RS232 Main Port            US,CAN   25H2130
25H2152  Green,Equatorial,RS232 Main Port          LA,AP    ---
25H2149  Green,Northern,RS232 Main Port            EMEA     ---
25H2150  Amber,Northern,RS232 Main Port            EMEA     ---
25H2151  White,Northern,RS232 Main Port            EMEA     ---
=====
```

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=====
=          FALL 1995: (3153 with IBM 3151 Emulation)          =
=====
```

- 3153 Models by Geography (Geo):

```
-----
Description                               US      CAN     LA     AP     EMEA
=====  =====
Green, RS-232 Main Port                    BG3    Hxy1    Hxy    Hxy    Hxy
Amber, RS-232 Main Port                     BA3    Bxy1    ---    ---    Bxy
White, RS-232 Main Port                     BW3    Xxy1    ---    ---    Xxy
Green, RS-422 Main Port                     CG3    Cxy1    Ixy    Ixy    Ixy
Amber, RS-422 Main Port                     CA3    Ixy1    ---    ---    Cxy
White, RS-422 Main Port                     CW3    Zxy1    ---    ---    Zxy
=====
```

x=specifies keyboard type:

For CAN/EMEA/LA: 'A' specifies ASCII-style Keyboard

'B' specifies PC-style Keyboard

For AP: '2' specifies ASCII-style Keyboard

'1' specifies PC-style Keyboard

y=specifies keyboard language

- 3153 Video Element Part Numbers:

```

-----
Part No. Description                               Geo      FRU Part
=====
42H0400  Green,Northern,RS232 Main Port  US,CAN  25H4317
42H0401  Amber,Northern,RS232 Main Port  US,CAN  25H4318
42H0402  White,Northern,RS232 Main Port  US,CAN  25H4319
42H0450  Green,Northern,RS422 Main Port  US,CAN  42H0443
42H0451  Amber,Northern,RS422 Main Port  US,CAN  42H0444
42H0452  White,Northern,RS422 Main Port  US,CAN  42H0445
42H0406  Green,Northern,RS232 Main Port  EMEA    ---
42H0407  Amber,Northern,RS232 Main Port  EMEA    ---
42H0408  White,Northern,RS232 Main Port  EMEA    ---
42H0456  Green,Northern,RS422 Main Port  EMEA    ---
42H0457  Amber,Northern,RS422 Main Port  EMEA    ---
42H0458  White,Northern,RS422 Main Port  EMEA    ---
42H0403  Green,Northern,RS232 Main Port  AP      ---
42H0453  Green,Northern,RS422 Main Port  AP      ---
42H0409  Green,Equatorial,RS232 Main Port AP,LA   ---
42H0459  Green,Equatorial,RS422 Main Port AP,LA   ---
42H0440  Green,Southern,RS232 Main Port  AP      ---
42H0465  Green,Southern,RS422 Main Port  AP      ---

```

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=====
| End of 3153 information |
=====

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02/06/1999

3153 Parts (US and Canada)

 3153 (May 1995-October 1995) (No 3151 Emulation) Video Part Numbers:

DISPLAY GREEN (RS232 MAIN PORT) FRU P/N 25H2128 FOR MFG P/N 25H2143
 DISPLAY AMBER (RS232 MAIN PORT) FRU P/N 25H2129 FOR MFG P/N 25H2144
 DISPLAY WHITE (RS232 MAIN PORT) FRU P/N 25H2130 FOR MFG P/N 25H2145

3153 USERS GUIDE (GA27-4083-00) SHIP GROUP P/N 25H2137
 3153 POWER CORD P/N 38F3968

 3153 (October 1995-present) (3151 Emulation) Video Part Numbers:

DISPLAY GREEN (RS232 MAIN PORT) FRU P/N 25H4317 FOR MFG P/N 42H0400
 DISPLAY AMBER (RS232 MAIN PORT) FRU P/N 25H4318 FOR MFG P/N 42H0401
 DISPLAY WHITE (RS232 MAIN PORT) FRU P/N 25H4319 FOR MFG P/N 42H0402

DISPLAY GREEN (RS422 MAIN PORT) FRU P/N 42H0443 FOR MFG P/N 42H0450
 DISPLAY AMBER (RS422 MAIN PORT) FRU P/N 42H0444 FOR MFG P/N 42H0451
 DISPLAY WHITE (RS422 MAIN PORT) FRU P/N 42H0445 FOR MFG P/N 42H0452

3153 Keyboard Converter Cable P/N 11L2832 (beginning June
 1998)
 3153 USERS GUIDE (GA27-4083-01) SHIP GROUP P/N 25H4315
 3153 POWER CORD P/N 38F3968

 3153 Miscellaneous Element Part numbers:

KEYBOARDS-FRU/CRU:

3153 PC-STYLE (ENGLISH) 11L2990 (replaces 8131276 and 25H2142)

(02K0805 PC keyboard with 11L2832 keyboard cable)
3153 ASCII-STYLE (ENGLISH) 11L2994 (replaces 42H0468)
(02K0849 PC keyboard with 11L2832 keyboard cable)
3153 PC-STYLE (FRENCH) 11L2992 (replaces 25H2163)
(02K0807 PC keyboard with 11L2832 keyboard cable)

KEYBOARDS-**MFG:**

3153 PC-STYLE (ENGLISH) 02K0805 (replaces 8131276 and 25H2142)
3153 ASCII-STYLE (ENGLISH) 02K0849 (replaces 42H0468)
3153 PC-STYLE (FRENCH) 02K0807 (replaces 25H2163)
3153 ASCII-STYLE (FRENCH) 42H0469 (end of Marketing Sept 1998)

OTHER:

POWER CORD (6-foot) 38F3968
3153 KEYBOARD CONVERTER CABLE 11L2832

(Keyboard Cable is included in new 3153 Video Element MFG P/N's
and 3153 Keyboard FRU/CRU's beginning June 1998).

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02/01/99

PART NUMBERS

P/N	FFC	Description
00F5524	262 B79	
00G0943	252	
00G0959	190, 277	Passthrough Terminator Cable SCSI
00G0963		Replaced by 31G9675
00G0968	234	Replaced by 52G4260
00G0972	232	
00G0976	190	
00G0977	190	
00G0978	190, 197	
00G0979	190	
00G1106		Replaced by 52G5762
00G1109	265	
00G1128		Replaced by 00G3277
00G1168		Replaced by 32G1412
00G1249	152	
00G1274		Replaced by 43G0322
00G1275		Replaced by 43G0382
00G1276	B07	
00G1295	B11	
00G1879	30MB	Fixed Disk Drive for 7010-130 X-Station
00G1897		Replaced by 51G9425
00G1924		Replaced by 11H3631
00G1948	954	Order rather 73F9001
00G1959	974	
00G1968	165	
00G1998		Sub by 51G8770
00G2130	165	
00G2031	887	
00G2121	165	
00G2126	165 169	
00G2193	165 169	
00G2208	157	
00G2223		This terminator FPT-3 is now replaced by 52G4259 FPT18C
00G2230	165	
00G2326		Sub by 52G3400
00G2360	168	
00G2369		Replaced by 51G9425
00G2393	B34	POWER Gt1 video VRAM (1MB)
00G2434		Replaced by 8184913
00G2436	843	
00G2487	868	Replace by 32G0397
00G2520	152	
00G2579		Replaced by 02G7165
00G2603	958	

00G2636		Replaced by 16G8423	
00G2652		Replaced by 02G7165	
00G2660		Replaced by 52G1071	
00G2721	189	Riser Card SCSI 7011-220	7012 Integrated SCSI
00G2793	B87		
00G2907		Interposer cable	
00G2916	B01		
00G2960	192	203	
00G2961	186	Replaced by 8184299	
00G2980		Replaced by 51G9475	
00G2981	166		
00G3149		Replaced by 51G8771	
00G3158	977	Replaced by 51G8018	
00G3165	221	and more 226, 227, 814, 816, 817	
00G3277	170,	166	
00G3278	181	Replaced by 52G7389	
00G3352	935	4MB test diskette	
00G3355		Replaced by 00G3357	
00G3357	870		
00G3368	852		
00G3408		Replaced by 32G1889	
00G3448		Replaced by 32G1257	
00G3449		Replaced by 52F4757	
00G3442	842		
00G3515		Replaced by 43G0893	
00G3528	210		
00G3529		Replaced by 00G3368	
00P7065		FRU 00P1967	
0123786	275,	819	
01K7099		not a FRU ! - sub to adpt 4-H #2493 40H6674	
02G7165	850		
02G7179		Replaced by 51G9425	
02G7253	166		
02G7429	B08	Replaced by 02G7431	
02G7425	862		
02G7431	B08		
02G7437	B09		
02G7511		Replaced by 65G7623	
02G7523	277		
0352465		Cleaning Kit 9trk 9348-012	
04G5500	B74		
04G5501	B83		
04G7435	B09	See FFC section for description	
04H8098		Auto LANstreamer Token-Ring PCI Adapter Type 8-T #2979	
04N2967	664	Uses 97H7796	
06H6036		Cable SCSI 16bit Sys(68pin)-to-DualConn_FirstDev(68pos) 1.0m	
06H6037		Replaced by 70G9858	
06H6660		Replaced by 06H6876	
06H6876		Cable SCSI adapter to backplane 6-pack	
06H7541		Replaced by 76H0473	

07F3132		Wrap plug 37-position X.25
07F3151	271	Cable 3 m X.25 X.21
07F3153		Wrap plug X.25 X.21
07F3163		Wrap plug X.25 V.24
07F3173		Wrap plug X.25 V.35
07F3161	272	Cable 3 m X.25 V.24
s07F3171	273	Cable 3 m X.25 V.35
07G4833	153	
07G4834	153	
07G4833	153	
07G4859		Replaced by 44F5511
07G4860		Replaced by 44F5510
07G4859		Cable serial link IBM 9333 attachment 3m
07G4860		Cable serial link IBM 9333 attachment 10m
07G5171		Not a maintenance part. refer to 69F9821
07G5190		Replaced by 52G1071
07L7065		Replaced by 00P1967
07L7763		not a FRU ! - sub to adpt 4-H #2493 40H6674
07L8916		Replaced by 09P2098
07L8918		Not a FRU ! real FRU is 07L8916
07L8978		MFG P/N - FRU 07L8979
07L9398		MFG P/N - FRU 07L9397
08L0372		MFG P/N - FRU 08L0373
08L0783		MFG P/N - FRU 08L0784
09F1888	B60	
09F1889		Replaced by 91F7974
09F1890		Replaced by 91F7966
09F1957		Replaced by 91F7976
09F1962	B61	
09G3495	110, 871	
09G3515	110, 871	
09G3521	B51	
09G3533	B52	
09G3534	B53	
09G3549	B50	
09G3667	858	
09G3802	152	
09L2080		Not a FRU. Use 09L2061
09L4294		Replaced by 09L1848
09L5609		Replaced by 44L0305
09P0102		Replaced by 09P5080
09P1126		Replaced by 09P5421
0934172	D01	
0934173	D01	Invalid P/N ???
0934174	D01	D04
10G8659	Gt1	Replaced 81F8015
10G8750		Replaced by 32G2029
10G8819		Replaced by 52G4293
11F8890	184	Replaced by 53F3417
11F8895		Replaced by 51G9652

11F8900		Replaced by w
11H2447	889	
11H2534	710	
11H2676	166	
11H2686	166	
11H2694	D23 166	
11H2709	152	AC Power Supply R30
11H2714	152	DC Power Supply R30
11H3243	165 168	FRU 19H0214
11H3247	165	FRU 19H0205
11H3462		Replaced by 40H6717
11H3465	B19	
11H3510	165	
11H3599	C26	
11H3600		Replaced by 93H8814
11H3614	E07	SSA 4-Port Adapter 4-D #6214
11H3631	168	Keylock
11H3884	166	
11H4779	866	
11H4977	D23	
11H5762	291	
11H5868		Diagnostics CD-ROM 4.1.2
11H6768		replaced by 73H2639
11H6773		replaced by 93H4438
11H8054		Look for 04H8098
12H1444		Replaced by 88G2391
13F5647		Tape Cleaning Fluid for 9348-012
1383417	169 B40	Fuse 7011/220 Riser Card
1394540	921	Replaced by 51G8572
1394541	922	
1394542	922	
1394543	922	®
1394544	922	
1394545	922	
1394546	922	
1394547	922	
1394548	922	
1394549	922	
1394550	922	
1394551	922	
1394609	922	
1395985	922	
1395968	922	
1525612		Parallel cable
15F6743	233	
15F6912		Replaced by 71F1042
15F8409	151	Replaced by 33G8354
15F8858	B66	
15F8864		Replaced by 91F7963

15F8868	B80	
16F0795	117	
16F0806	111	
16F0812	113	
16F1144		Replaced by 93F0331
16F2265	B68	
16F2267	B67	
16G8421		Replaced by 31G9487
16G8423	971	150MB QIC Tape Drive. Replaces 00G2636, 31F4081
16G8451		Replaced by 21H5172
16G8453		Replaced by 21H5172
16G8454		Replaced by 59H2683
16G8492	914	
17G1715		Replaced by 87G1631
17G3137		Replaced by 51G8237
17G1758		Replaced by 46G3934
19G0205		oppanel, try 19H0205
19H0201	990	
19H0205	165	
19H0206	987	
19H0210	995	
19H0214	151 165 168	Operator panel
19H0216	D25	
19H0219		
19H0222	166	
19H0224	166	
19H0228	169	
19H0230	D37	
19H0236	D28	
19H0242	169	
19H0246	C59	
19H0264	89c	
19H0265	968 981 990	
19H0266	987	
19H0272	190	
19H0287	D33	
19H0288	D33	
19H0289	D33	
19H0293	D28	
21F8586		Test tape for 525MB Tape Drive DC6080
21F8734		Test Tape for 1.2GB Tape Drive M1.2SLC
21F9403		Optical Cable 6m
21F9405		Optical Cable 10m
21F9407		Optical Cable 20m
21F9410		Optical Cable 60m
21F9413		Optica Cable 100m
21H4149		7137: 2GB Disk Drive
21H5151		Replaced by 59h3159
21H5155	995	1.2GB QIC Tape Drive
21H5172	915	

22F9380		Replaced by 02G7165
22F9685	166	
22F9685	166, 167, 170	
22F9689		Adapter 8-pin DIN Wrap Plug (Graphics Input Device Adapter)
22F9743		Replaced by 42F6717
22F9758	819	
23F0047	192	Replaced by 00G2960
23F0168	151	Battery for All models but 7011/220
23F7365		Replaced by 59F4583
23F7366		Replaced by 59F4583
23F8549		Replaced by 59F4581
24L0030		Replaced by 41L5754
25F9401	B05	
25L1860		FRU is 25L3100
25L5817		FRU is 84H9706 - SSA 4-M
27H1677	774	
30F8834		Replaced by 51G9425
30F8966	263	
30F9297	847	
30F9299		Replaced by 52G4739
30F9388	923	
31F3956	221	and others. Replaced by 51G8812
31F4075	852	
31F4078		Replaced by 32G1412
31F4081	971	Replaced by 16G8423
31F4213	176	Replaced by 70F9973
31F4215	168	
31F4221	239 276	
31F4222	278	
31F4223	239	
31F4224	278	
31F4244	164	
31F4283	181	
31F4284	181 190	
31F4286	152	Replaced by 51G8440
31F4287	165	
31F4288	189	
31F4292	B42	
31F4312		Replaced by 65G3400
31F4324	221	and more
31F4342		Replaced by 51G9425
31F4350	210, 214, 215, 216, 217, 218, 815	
31F4482	???	Replaced by 43G0779
31G9448	169	
31G9487	972	
31G9675	190 277	Replaced 00G0963, 40F9984
31G9729		Replaced by 51G9425
31G9751		Replaced by 8184913
31G9755	960	Replaced by 52G0061
31G9756	960	

31G9891		Planar X-Station 120 US
31G9892		Planar 7010-120
31G9901		Planar 7010-130 US
31G9902		Replaced by 51G7951
32F0397	868	
32G0255	852	Replaced by 00G3368
32G0258	985	M-Video Capture NTSC
32G0263	985	
32G0397	868	Ctrl-to-First-Device (SCSI-II MCA Adapter)
32G1022	157	S3.2 Memory Card / Can be sub by 32G1866
32G1256		Replaced by 11H5762
32G1257	841	Replaced 00G3448, 40F9778
32G1412	834	64-Port Adapter. Replaces 00G1168
32G1528	170	
32G1846		S3.3 Mem Card - FRU 32G1866
32G1866	B56	S4 Memory Card
32G1889		Microcode Dskt M-Audio
32G1902		Power Supply 7010-150
32G2029		Replaced by 43G0335
32G2190		Replaced by 51G9708
32G2295	152	Replaced by 52G1137
32G8212		Marked on SIMM - FRU 43G1796
32H3836		Sub by 96H9875
33F4606		Cable Ctrl-to-Dev SCSI-1 for 2-connector first device
33F4607		Cable Dev-to-Dev SCSI-1 for 2-connector device
33F8354	151	
33G2759		Wrap Plug for adapter FDDI-STP 2-T
33G2760		FDDI-STP FDDI-Fiber transition cable
33G2761		Jumper Cable for adapter FDDI-STP 2-T
33G2762		Jumper Cable Reversing Cable
33P3263		ASM - FRU is 33P3303
33P3302		ASM - FRU is 33P3303
34F0873		Cable-RR to 9291/9295 assembly 6.6ft
34F0875		CSU Cable T1 for Voice Server Adapter
34L3614		Replaced by 19P0802
36G0454	986	
36G4280	C11	
39F6742	110	
39F6748	112	
39F6756	110	
39F6776	115	
39F6792		Replaced by 74F3386
39F6802	166	
39F6807	116	
39F6808	116	
39F8067	124	
39F8068	124	
39F8226	930	
39F8227	929	
39F8228	270	

39F8302	280 929 930	
39F8312		Replaced by 09G3667
39H8128		GXT1000
40F9736	279 869	
40F9766	842	Replaced by 00G3449
40F9772		Replaced by 00G2436
40F9778	841	Replaced by 32G1257
40F9781	184	
40F9871	160 166 167 170	
40F9872	160 166 167 170	
40F9875	168	
40F9897	258	
40F9925	181	
40F9928	168	
40F9979	166 170	
40F9980	166 170	
40F9984		Replaced by 31G9675
40H2837		Replaced by 40H6717
40H3308	85c	Auto Token-Ring LANstreamer MC32 8-S
40H5670	152	
40H6328		DB9F to DB25M adapter
40H6717	210 B19	
41F0489		Replaced by 52G1343
41F0499		Replaced by 88G3988
41F0503		Replaced by 51G9395
41F0521		Replaced by 59F4433
41F0635	849	Replaced by 51G9060
41H8452		
41L5020	210	CPU Card 604e X4D
42F6717	854	
42F6840	162	
42F6842	130	
42F6889	118	
42F7300	229	
42F7482	160 166 170	
42G1803	165	
42G9755		1.07gb disk - 9333 only
42H2775	1of3	Replaced by 93H6823 on 7043-140
42H2775	2of3	Replaced by 93H6822 on 7043-240
42H2775	3of3	Replaced by 93H6821 on 7025-F40
43G0053		Replaced by 43G2429
43G0056	165	
43G0059	B76	
43G0069	B76	
43G0176		Replaced by 11H2447
43G0235		Replaced by 56G0294
43G0236	B47	Replaced by 56G0295
43G0322	Power Supply	7010-130. Replaces 00G1274
43G0326		Replaced by 52G1071
43G0335	169	Replaced by 65G7374

43G0378		This Terminator FPT-18 is now replaced by 52G4259 FPT-18C
43G0382	B06	Ethernet thick and thin riser card
43G0462	290	
43G0463	291	Fanout 16Port. Replaces 53F3311
43G0467		Replaced by 52G4260
43G0534	169 221 223	Replaces 71F0157
43G0588		Replaced by 51G7834
43G0681	B58	POWER Gt3i Graphics Adapter
43G0779	???	SCSI Internal Ribbon Cable, 7012 Integrated SCSI
43G0855		Replaced by 65G1879
43G0856	B14 C99	
43G0875		Replaced by 65G1878
43G0876	B45	
43G0893	835	
43G0914	B90	
43G0925		Replaced by 52G4894
43G0926		marked. Replaced by 43G0938
43G0928		Wrap Plugs for Remote Async Node
43G0933		Replaced by 51G8526
43G0934		Replaced by 51G8528 (World Trade)
43G0935	C22	
43G1796		16mb memory SIMM for 128mb mem card (8 x 16 = 128mb)
43G1803	165, 169	
43G1796	B57	
43G1845		Replaced by 8184299
43G2188	210+	Replaced by 52G5669
43G2211	221 C83	
43G2429	B34, B75, 210, 880	
43G2689		Replaced by 55F9353
43G2831		Replaced by 65G4275
44F5270		Replaced by 44F5287
44F5280	158 170	
44F5287	153	
44F5324		Replaced by 52G1071
44F5510		Replaced by 07G4859
44F5511		Replaced by 07G4860
45G9467		Replaced by 86G9049
46F2438		Fiber Optic Cable Wrap Plug
46F2440	205	
46F2441	205	
46F2442	205	
46F2443	205	
46F2444	205	
46G2689		Replaced by 21H5155
46G2700	991	525MB QIC Tape Drive. Replaces 55F9184
46G3934		Power Supply 7203-001(1GB), 7204-001(1GB), 7206-001, 7207-012, 7208-011, 7209, 34XX-ALL
4819058	168	
50G0460		Interposer System-to-Cable - 7134/7135

51F1429	173	Replaced by 59F4581
51F7743	837	Replaced by 51G8139
51G0925	836	
51G1755	870	
51G7736		This terminator FPT-18+ is now replaced by 52G4260 FPT18C
51G7737		This Terminator FPT-18+ is now replaced by 52G4259 FPT18C
51G7773	898	
51G7826		Replaced by 52G3282
51G7834		Replaced by 51G8365
51G7852		Transfo for 16-port RAN (128-port adapter)
51G7951		Replaced by 65G4288
51G8018	977	M-Audio Capture and Playback Adapter, Replaces 00G3158
51G8022		Replaced by 93H2945
51G8070		Replaced by 52G3206
51G8092		Replaced by 52G3207
51G8101	210	
51G8133		Replaced by 8184088
51G8139		Remote Async Node 16-Port EIA-232
51G8237	981	540MB SCSI-2 Disk Drive 1-inch height
51G8365	B24 169	Replace by 65G7374
51G8440	152	
51G8526		Transfo for 16-port RAN (128-port adapter)
51G8527		replaced by 51G8526
51G8553	B38	4MB Memory module
51G8554	B39	
51G8557		Replaced by 51G8553
51G8558		Replaced by 51G8554
51G8568		Passthrough Terminator Cable SCSI-2
51G8571		Replaced by 52G7451
51G8572	921	Replace PN1394540
51G8630		Replaced by 51G8812
51G8770		Replaced by 52G4007
51G8771		Replaced by 51G9539
51G8812	169, 816	
51G8925	836	Replaced by 52G4894
51G8989	B89	
51G8923		Replaced by 51G8139
51F9060	849	
51G8823		Replaced by 52G4293
51G9074		Replaced by 52G4293
51G9083	851	
51G9107	B87, 816, 868	
51G9225	120	
51G9227	120	
51G9395	120	
51G9396		Replaced by 88G3988
51G9397		Replaced by 52G1343
51G9425	869	Replaces 31G9729, 02G7179, and others. SEE FFC 869.
51G9539	B21 210	Replaced by 52G4190
51G9589	210	

51G9652		Mouse
51G9708	152	
51G9830		Replaced by 52G7363
51G9921		Replaced by 52G7389
51G9933	210	and others. Replaces 00G2434
51G9947	210	Replaced by 52G7363 51G9830, 31G9751
52F3091	171	Replaced by 59F4581
52G0020	210 212 214 216 217 218 815	
52G0061	960	1.37GB Disk Drive. Replaces 31G9755
52G0062	812, 816	
52G0173		Y-Cable Wide 16-bit 0.94m
52G0174		Cable SCSI 8bit Sys(68pin)-to-SingConn-FirstDev(50pos) 1.5m
52G0223	G30	
52G0245	190	
52G1071	870	
52G1072		Replaced by 65G3448
52G1137	152	
52G1171		Replaced by 52G7509
52G1266	B28, 221, 816	and others.
52G1343	878	
52G1446	165	
52G1456	816	
52G1465	165	
52G1467		
52G1483	816	
52G1485	165	
52G1504		Replaced by 65G3009
52G3206	942 C28	
52G3255		Subs by 52G3282
52G3207	942 C28	
52G3304		Replaced by 11H3599
52G3400	935	
52G3908	B90 210	
52G4007	B20	
52G4034		Replaced by 93H8814
52G4190	B21	
52G4293	B89 210	
52G4325	C81 169	
52G4322	855	
52G4475	210 C79	
52G4670		Replaced by 88GFRU PN to come
52G4685		Replaced by 52G4729
52G4691	210 C78	
52G4729	C37	
52G4739	848	
52G4757	842	
52G4764	152	
52G4871		Power Switch 7012-390
52G4894	836	

52G5484		Replaced by 52G7509
52G5543	166	
52G5560	166	
52G5669	210	Replaced by 65G6896
52G5711	221	
52G5729	210 B23	Replaced by 65G3448
52G5755	210	replaced by 8184825
52G5762	210	and others
52G7347	812	
52G7357	B89	
52G7365		Replaced by 65G7623
52G7389	190	
52G7448	190, 277	
52G7449	181	
52G7450	277	
52G7451	277	
52G7453	165	
52G7509		Replaced by 11H4779
52G7533	152	
52G7748	277	
53F2603	B69	
53F2612	B71	
53F2615	B72	
53F2621	B81	
53F2656	186	
53F2660		Portmaster Adapter/A with 1MB
53F2662	B77	
53F2664		Portmaster Adapter/A with 2MB
53F2666	B78	
53F3048	269	8/16-port rack extension cable
53F3089	171	Replaced by 59F4581
53F3091	171	Replaced by 59F4581
53F3271	128 130	
53F3272	128 130	
53F3311	291	Replaced by 43G0463
53F3319	181	
53F3345	812	
53F3348	215	
53F3349	210 214 215 216 217 218 815	
53F3350	210 214 215 216 217 218 815	
53F3368	265	Replaced by 00G1109
53F3372		Replaced by 32G1412
53F3381		Replaced by 43G0462
53F3407		Replaced by 52G4322
53F3408		Replaced by 8184299
53F3417	183	
53F3422	974	
53F3423		Replaced by 88G4768
53F3424		Replaced by 71F1042
53F3425	957	

53F3427	952	
53F3429	951	
53F3524	208	
53F3621	867	
53F3872	206	
53F3926	271	Cable 6 m X.25 X.21
53F3927	272	Cable 6 m X.25 V.24
53F3928	273	Cable 6 m X.25 V.35
53F3928	273	
53F3930	256	
53F3963		Replaced by 31G9891
53F6484	113	
53F6515	112	
53F6516	115	
53F6532	871	
53F6534		Replaced by 88G2965
53F6536	112	871
53F6538	115	871
53F6484	113	
53F7748		Replaced by 93F0331
54F0738	***	Replaced by 61F5396
55F5199	968	
55F5855		Replaced by 55F9902
55F5900		Invalid FRU - use 36G6930
55F6094	974	
55F9184	991	Replaced by 46G2700
55F9306		Replaced by 8191193
55F9353		Replaced by 21H5155
55F9902	968	Replaced also 55F5855
55F9909	968	
5605670		ESCON Fiber Optic Wrap Plug
56G0294	865	
58F2861	261	
58F2902		Cable WW Display Cable 5 connectors
58F2903	220	281 Cable CC with toroid 3 connectors
59F2968		Replaced by 32G1412
59F2969	861	
59F2977		Metal Plate (behind mach)
59F3099		Replaced by 81F8926
59F3116	180	Replaced by 59F4436
59F3384		Replaced by 43G0893
59F3432	266	
59F3467	266	
59F3688	160	166 170
59F3696		Replaced by 00G2126
59F3740	252	Replaced by 00G0943
59F3785	221	223 226 227 288 814 816 817
59F3873	163	
59F3876	161	
59F3983		Remote bringup cable

59F4431		Replaced by 59F4433
59F4433	171	Replaced 59F4431, 41F0521
59F4436	180	
59F4460	167, 170	
59F4461	160	
59F4492		Replaced by 31G9892
59F4533	252	Replaced by 81F8977
59F4581	173 175	
59F4582	174 179	
59F4583	187	
59F4585	124	
59H2839		Replaced by 59H3879
59H3159	994	
59H3879	678	
59H6813		FRU is 59H6923
59H6816		FRU is 59H6926
59H6926		9.1GB Sailfin Disk
59X1088	931	
60G2950		Replaced by 8184379
60X5726	931	
61F5396	***	Voice Server Attachment Adapter (VSAA/VSCA)
61G1259		
61G1260		
61G1260		Cable Adapter-to-Device 2.4m 7135
61G1261		Cable Adapter-to-Device 4.5m 7135
61G1262		Cable Adapter-to-Device 12.0m 7135
61G1263		Cable Adapter-to-Device 14.0m 7135
61G1264		Cable Adapter-to-Device 18.0m 7135
61G8324		Terminator (wide 16-bit)
6128280		Replaced by 00G1879
61X8923	924	
6245998		Coaxial cable (supplied by customer)
6247440	931 934	
6247441	931	
6247442	931	
6247443	931	
6247444	931	
6247445	931	
6247446	931	
6247450	926	
6247452	927	
6247454	188	
6247455	159	
6247480	255 274	Cable graphics input device dials LPFK
6247838	124	
6298966		Built-in Serial Adapter S1 S2 Wrap Plug
6298964		25pin D-Shell Wrap Plug
6323741	259	
6323742		Marked PN Subbed by 71F0165 (Cable-V)

6339098	256	
6373521	956	
6374682	913	
6374683	913	
64F3604	B37	2MB memory SIMM 7011-220 Replaced by 92F0104
64F3605	B38	4MB memory SIMM 7011-220 Replaced by 87F9980
64F3606		Replaced by 51G8554
6487683	931	
6487685	931	
6487686	931	
6487687	931	
6487689	931	
65G1803		Empty Base Mem Card 4.5 for 8/16/32/64/128mb
65G1828	897	
65G1877	166	
65G1878	997	
65G1879	859	
65G1977		Ethernet planar for 7010-140
65G2116	710	GXT150M Graphics Adapter - Type 1-D #2650
65G2352		Replaced with 65G2419
65G2419		CABLE, DAISY CHAIN INCLUDES MALE AND FEMALE DB-9 WRAP PLUGS
65G2853		Replaced by 65G2946
65G2946	152	
65G3009	B28	
65G3400	812	
65G3448	210	
65G4275		Planar for 7010-150
65G4288		X-Station 130 Base Planar
65G4381		Token-ring planar for 7010-140
65G4884	C33	
65G4885	C34	
65G4886		Replaced by 39H8128
65G4887	C35	
65G4889	C45	
65G4890	C46	
65G4891	C47	
65G4892	C36	
65G4893	C48	
65G4894	C44	
65G6131	D25	
65G6452		32mb SIMM for 256mb mem card (8 x 32 = 256)
65G6525	210	Replaced by 65G7623
65G6896	B84 210	
65G6995	152	
65G7315	C26	Replaced by 11H3599
65G7374	B24	
65G7579	152	
65G7929	D01	
65G7904	C84	

65G7942	C74	
65G7989		
65G7494	210	
65G7537		Not a field PN - Replaced by 52G7389
65G7538		Not a field PN - Replaced by 52G7389
65G7539		Cable SCSI Internal 55L
65G7563	987	
65G7568		sub to 40H3308
65G7623	210	
65G7929	D01 D04	
65G7994	165 168	
65G8077		Replaced by 40H5670
65X6249		NOT A FRU -92F0104 2MB SIMM
66G4162		Replaced by 65G2116
67X1248	257	
67G1755		Replaced by 88G3629
67G1862		Replaced by 88G3629
68G5269		Not valid. 43G2856 valid Flash Memory 4mb mod 140/150
68F7209	897	
68X5706	185	
68X6065	B19	
68X6127		NOT A FRU - 92F0104 2MB SIMM
68X6271	174	Replaced by 59F4582
68X6327		--> 92F0104
68X6343		to FRU 92F3337 - 4MB SIMMs for X-Station 7010-130
68X6356	176	Replaced by 70F9973
68X6357	177	Replaced by 70F9976
69F9821	141	
69G9821	141	1.07GB Fixed Disk 5.25"
70F0064		Replaced by 81F8926
70F0068	152	Replaced by 91F0844
70F9171		Passthru terminator adapter for 9334-500
70F9662		Terminator for Gt4 8-Bit Base Graphics Card #2795
70F9664	B16	
70F9671		Terminator 50pin external non-FPT - Replaced by 52G4260
70F9715	209	
70F9725	172 176	
70F9733	239 276	Replaced by 31F4221
70F9734		Replaced by 31F4222
70F9813		Converter Cable
70F9846	166 170	
70F9871	190	Replaced by 00G0976
70F9900	232	Old card edge non-FPT Terminator. Sub to 00G0972
70F9901		Replaced by 00G0977
70F9902		Replaced by 00G0978
70F9968	157	
70F9970		Replaced by 81F8926
70F9973	172, 176, 187	
70F9974		Replaced by 81F8926
70F9976	177, 182	

70G9858		Cable SCSI 8bit Sys(68pin)-to-DualConn_FirstDev(50pos) 1.0m
71F0067	152	
71F0087		Replaced by 00G0979
71F0207		See 00G1968
71F0253		
71F0062		Replaced by 81F8926
71F0064		Replaced by 81F8926
71F0067	152	
71F0069	152	
71F0162	257	
71F0157	169 221	Replaced by 43G0534
71F0162	257	Cable, 4-port multiptocol V.35
71F0164	260	
71F0165	254	
71F0207		Replaced by 00G2130
71F0253		Cross-Connector C2 for Gt4/Gt4x Graphic Processor
71F0254		Cross-Connector C3 for Gt4/Gt4x Graphic Processor
71F1167		15pin D-Shell Thick Wrap Plug
71F1168		BNC 25-Ohms terminator Wrap Plug
71F1197	887	
71F0207	165, 169	Replaced by 00G1968
71F0253	120, 878	
71F0254	120, 878	
71F0633	157	
71F0636	157	
71F0700	181	
71F0855	180	Replaced by 59F4436
71F0857	180	Replaced by 59F4436
71F0974		Replaced by 00G3368
71F1042	936	
71F1072	195	
71F1114	879	
71F1117	876	
71F1151	128	
71F1197	210	Replaced by 51G8630
71F1223	874	
71F1224	872	
71F1378	210 214 215 216 217 218 815	
71F1379	268	
71F1382	157	
71F1393	157	
71F1395	157	Replaced by 00G2208
71F1396	157	
71F1997	169 221 223 226 227 812 814 816 817 821 823 824 825	
71F7010		Replaced by 51G8553
72F0164	B73	
72F1966	B82	
72X6759	184	
72X6768	184	

72X8488	812	
73F8994	954	
73F9001	954	If 00G1948 doesn't work
73G3235		Replaced by 8184380
73G9819		Replaced by 73F9821
73G9821	944	
73H1513		
73H1567		Replaced by 93H4357
73H1589		Replaced by 86H2123
73H1925		Replaced by 07L9718
74F3102	116	
74F3104	116	
74F3118	113	871
74F3130	926	
74F3131	159	
74F3132	159	
74F3133	188	
74F3134		
74F3140	927	
74F3156		Replaced by 09G3495
74F3158	871	
74F3384	111	871
74F3386	114	871 Replaced by 88G2965
74F3419	110	871 Replaced by 09G3515
74G1234		Replaced by 51G8553
74G1235		Replaced by 51G8554
74G8783		FRU is 74G8786
74G6987		FRU is 74G7010
74G6993		FRU is 75G4932
74G6994		FRU is 75G4933
74G6995	700	
74G6996	703	
74G7006	701	
74G7007	704	
74G7008	706	
74G7009	702	
74G7010	705	
74G7011	707	
75G4932		Subs to 21H4149
75G4933		7137: 4GB Disk Drive
75G5958		Cable filter for Adapter 9-K for 7015-J50
75X5894		512K Video Memory 7010-120
76H0518		subs to 01K6497
76H2697	689	
76H2698	690	
79X3795		Terminator SCSI-Diff 50-pin low density
8184016	C25	C72
8184088	B93	169
8184237		Replaced by 52G3207
8184299	186	

8184379	C31	
8184380	C32	
8184411		Replaced by 11H5762
8184416	B37	
8184612	210	
8184637		Replaced by 8184825
8184825	210	
8184831	210	
8184913	B85	
8185003		Replaced by 11H7092
8185415		Replaced by 59H2683
8185454	166	
8191160		Replaced by 8191151
8191184		Replaced by 21H5155
8191193	998	
8191380		Power Supply 7204-215/315
8191425		Replaced by 52G7451
81F7722	221 223 226 227 814 816 817	Replaced by 43G2211
81F7789		FRU is 91F0629
81F7807		Replaced by 31G9901
81F7888	210 212 815 214 216 217 218 815	
81F7889	210 214 216 217 218 815	
81F7913	852	Replaced by 00G3368
81F8008		Replaced by 52G0020
81F8015	Gt1	Replaced by 10G8659
81F8085	959	
81F8042	887	
81F8071	958	
81G8085	959	160MB SCSI disk drive
81F8100		Replaced by 43G0893
81F8111		Replaced by 00G2436
81F8129	B10, 868	
81F8216	283	
81F8232	210 and more	
81F8234	169 264	
81F8359	165	Replaced by 00G2193
81F8403		Replaced by 09G3667
81F8570	267	
81F8359	165 169	
81F8900	189 957	
81F8924		Replaced by 81F8926
81F8925		Replaced by 81F8926
81F8926	178 180 219	
81F8927		Replaced by 81F8926
81F8932	210 212 214 216 217 218 815	
81F8962	164	Replaced by 31F4244
81F8977	252	10-pin to 25-pin converter cable, 3 m
81F9003	859 C99	
81F9012	B15	
81F9014	B14 C99	

81F9016		2-port fiber optic MIC Wrap Plug
81F9067		Replaced by 65G3448
84H9706	E07	MCA SSA Multi-Initiator/RAID El Adapter 4-M #6219 #6222
8529214	251	
86F0110	990	
86F0118		Replaced by 90F0894
86F0119	912	
86F0125	912	
86G9048	984	
86H2117		(VPD P/N) FRU is 86H2123
86H2123	85c	Auto Token-Ring LANstreamer MC 32 8-S #2972
87F5104	176	Replaced by 70F9973
87F9980		Replaced by 8184416
87G1480		Replaced by 21H5172
87G1631		Replaced by 59H3159
87G1632		
87G1687		Replaced by 59H3159
87G1356		Terminator narrow 8-bit
88G2965	C12	
88G0007	210 C76	
88G0053	152	
88G0131	152	
88G0134	152	
88G0216	B28	
88G1003		Replaced by 73H2638
88G2479	C87	
88G2538	210 C85 169	
88G2547	C75	
88G2577	190	
88G2601	166	
88G2671	168	
88G2731	D01 D05	
88G2807		replaced by 8184380
88G2965	114 871 C12	
88G3629	870	
88G3679		Marked - see 88G3680 FRU
88G3680		S4.6 Base memory card
88G3761	166	
88G3890		Diagnostics Diskettes 2.4.3
88G3936	168	
88G3988	878	
88G4006		Replaced by 40H6717
88G4012	D01	
88G4477	C34	
88G4478	C33	
88G4733		Diagnostics CD-ROM 2.4.3
88G4798	935	
88G4921		
88G5746		Cable Adapter-to-7134 2.4m

88G5747		Cable Adapter-to-7134 4.5m
88G5748		Cable Adapter-to-7134 12.0m
88G5749		Cable Adapter-to-7134 14.0m
88G5750		Cable Adapter-to-7134 18.0m
90F0894	990	
90X8624		1MB Sys Mem 7010-120/130
90X8625		2MB Sys Mem 7011-220 replaced by 92F0104
91F0629	1MB	Video Mem 7010-130
91F0640	B07	Replaced by 00G1276
91F0646		Replaced by 43G0382
91F0817		Replaced by 43G0893
91F0844	152	
91F0847		Replaced by 16G8421
91F0935	955	
91F1009	210	212 214 216 217 218 815
91F1025		7011-220 ROM module
91F7966	B64	
91F7974	B63	
91F7976	B62	
92F0102		Replaced by 8184416
92F0104		2MB SIMM - X-STATION 130
92F0105		Replaced by 51G8553
92F3713	985	Cable Set M-Video Capture NTSC
92F3714	985	Cable Set M-Video Capture PAL
92F6697	B04	
92G7638		replaced by 41H8452
92G7668		Replaced by 41H8452
92X7510		Test Tape for 150MB Tape Drive DC6037
93F0331		Token-Ring Card for 7010-120
93F1162	B46	
93H1505		Replaced by 07L6605
93H1705		Replaced by 94H0029
93H1845		Replace by 94H0385
93H2945	B59	
93H4700		Replaced by 07L7729
93H5513		TURBOWAYS 25 ATM PCI Adapter #2998
93H6023		Replaced by 11K0383
93H6274		Replaced by 41L5020
93H7321		Replaced by 94H0029
93H7329		Replaced by 94H0029
93H5439		Replaced by 94H0029
93H7445		Replace by 94H0385
93H7201		MFG P/N - FRU 94H0389
93H8022		For SMP - Now replaced by 07L6601 compatible SMP and UNI
93H8814	890	SCSI Adapter 4-7 MCA
93H9534		MFG P/N - FRU 94H0389
93H9535		MFG P/N - FRU 94H0389

93H9536 MFG P/N - FRU 94H0389

93X0901 953

93X0961 953

94F3600 Replaced by 52G7347

94F3617 812

94H0028 Invalid FRU on GXT500P - See 93H5438

94H0029 GXT550P Graphics Adapter 1-J

94H0385 3Com Fast EtherLink XL PCI 10/100 Ethernet Adapter

95X2346 955

95X2431

95X2432 955

95X2439 955

95X3795 Cable SCSI-2 Differential 9334-011 to 9334-011 or 7204 Diff

93H9648 Replaced by 09P5421

96H9875 80c

96H9883 Not a valid FRU - Correct is FRU 89H5617 MCA 4-I adapter

97H0645 Sub by 96H9938 4-N

99F0489 Feed-through connector for Serial Optical

99G9547 Sub by 21H7977

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| I'm outstanding in the field ! |
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--±--x--x--x--x--x--±--x--x--x--x--x--x--±--x--x--x--x--x--±--
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O u t s t a n d i n g i n t h e f i e l d !

Last Updated: August 2003 by Bruno Croft

PART NUMBER SEARCH

Enter Part Number/FRU number:

Configuration and Process Codes

LED

Value	Description
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000 - 049 (Reserved)

050 - 099 Reserved for Service Processor usage.

Dump Codes (0c1 -0cc)

0c0	The dump completed successfully
0c1	Dump Failed Due to an I/O Error
0c2	Dump, requested by user, is started.
0c3	Dump is inhibited
0c4	Dump Device Not Large Enough
0c5	Dump Did Not Start or Dump Crashed.
0c6	Dumping to Secondary Dump Device
0c7	Reserved
0c8	Dump function is disabled.
0c9	A dump is in progress
0cc	Unknown Dump Failure (prior to rel 42G)/Dumping to secondary dump device.

Crash Codes

Note: Crash Codes are part of a flashing "888" message of the type "888 102 xxx yyy" where the "xxx" is the crash code and the "yyy" is the dump status (code).

000	Unexpected system interrupt.
200	Machine check because of a memory bus error.
201	Machine check because of a memory timeout.
202	Machine check because of a memory card failure.
203	Machine check because of a out of range address.
204	Machine check because of an attempt to write to ROS (Read Only Storage).
205	Machine check because of an uncorrectable address parity.
206	Machine check because of an uncorrectable ECC error.
207	Machine check because of an unidentified error.
208	Machine check due to an L2 cache Uncorrectable ECC.
2E6	The PCI Differential Ultra SCSI adapter or the Universal PCI Differential
2E7	Configuration method unable to determine if the SCSI adapter type is SE or DE type.

300 Data storage interrupt from the processor.
32x Data storage interrupt because of an I/O exception from the IOCC.
38x Data storage interrupt because of an I/O exception from the SLA.
400 Instruction storage interrupt.
558 There is not enough memory to continue the IPL.
600 Alignment Interrupt (Replaces former 600 crash code
605 AIX has crashed because the Portability Assist Layer (PAL) for
this machine type has detected a problem.
700 Program Interrupt (invalid instructions, traps, and panics).
800 Floating Point function not available.

BIST Codes (100 - 199)

100 BIST completed successfully control was passed to ROS.
101 Initial BIST started following RESET.
102 BIST started following Power-On-RESET.
103 BIST could not determine the system model number.
104 BIST could not find the CBA.
105 BIST could not read from the OCS EPROM.
106 BIST detected a module failure.
111 BIST detected a module failure.
112 Checkstop occurred during BIST and results could not be logged out.
113 The BIST checkstop count was greater than 1.
120 BIST started CRC check on 8752 EPROM
121 BIST detected a bad CRC on the OCS EPROM.
122 BIST started CRC check on the OCS EPROM.
123 BIST detected a bad CRC on the OCS NVRAM.
124 BIST started CRC check on the OCS NVRAM.
125 BIST detected a bad CRC on the time of day NVRAM.
126 BIST started CRC check on the time of day NVRAM.
127 BIST detected a bad CRC on the 8752 EPROM
130 BIST presence test started.
140 BIST Failed.
142 BIST Failed.
143 Invalid Memory Configuration.
144 BIST Failed.
151 BIST started AIPGM test code.
152 BIST started DCLST test code.
153 BIST started ACLST test code.
154 BIST started AST test code.
160 Bad EPOW signal/Power status signal
180 BIST logout failed.
182 BIST: COP bus not responding.
185 Checkstop occurred during BIST.
186 System generated checkstop (systems without BIST)
187 Graphics generated checkstop
195 BIST logout completed.

POST Codes (200 to 299)

200 Boot attempted with keylock in the secure position.
201 Checkstop occurred during boot.
202 Unexpected machine check interrupt.
203 Unexpected data storage interrupt.
204 Unexpected instruction storage interrupt.
205 Unexpected external interrupt..
206 Unexpected alignment interrupt.
207 Unexpected program interrupt.
208 Unexpected floating point unavailable.
209 Unexpected SVC interrupt.
20c Error detected in L2 cache (when LED persists for 5 seconds).
210 Unexpected SVC 1000 interrupt.
211 ROS CRC miscompare during boot.
212 Processor Planar Bad FATAL
213 Memory Card failure or Processor Planar Bad.
214 Power status register failed
215 A low voltage condition is present
216 ROS code being uncompressed into memory.
217 End of boot list encountered.
218 RAM POST testing for 2 MB of good memory
219 RAM POST bit map being generated.
21c L2 Cache not detected as part of systems configuration(2 second dur.
220 IPL Control Block being initialized.
221 NVRAM CRC comparison error during boot in Normal Mode.
222 Attempting Normal boot from NVRAM Boot List from SIO attached devices
223 Attempting Normal boot from NVRAM Boot List from SCSI attached devices
224 Attempting Normal Mode Boot from 9333 subsystem device
225 Attempting Normal Mode boot from from 7012 DBA Disk
226 Attempting Normal Mode boot from Ethernet
227 Attempting Normal Mode boot from Token Ring
228 Attempting Normal boot using expansion code in NVRAM.
229 Attempting Normal Mode boot but list is empty or no devices are available.
22c Attempting a normal mode IPL from FDDI specified in NVRAM IPL device list.
230 Attempting Normal boot from ROM Boot List.
231 Attempting Normal Mode boot from Ethernet
232 Attempting Normal Mode boot from SIO attached devices
233 Attempting Normal Mode boot from SCSI attached devices
234 Attempting Normal Mode boot from 9333 subsystem device
235 Attempting Normal Mode boot from from 7012 DBA Disk
236 Attempting Normal Mode boot from Ethernet
237 Attempting Normal Mode boot from Token Ring
238 Attempting a Normal-mode restart from Token Ring specified by the user.
239 System failed to boot from the device specified by the user.
23c Attempting a normal mode IPL from FDDI specified in IPL ROM device list.
240 Attempting a Service boot from ROM boot list.

241 Attempting a Normal boot from devices specified in NVRAM boot list
242 Attempting Service Mode boot from SIO attached devices
243 Attempting Service Mode boot from SCSI attached devices
244 Attempting Service Mode boot from 9333 subsystem device
245 Attempting Service Mode boot from from 7012 DBA Disk
246 Attempting Service Mode boot from Ethernet
247 Attempting Service Mode boot from Token Ring
248 Attempting Service boot using expansion code in NVRAM.
249 Attempting Service Mode boot from the NVRAM IPL device list.
24c Attempting a service mode IPL from FDDI specified in NVRAM IPL device list.
250 Attempting a Service boot from adapter feature ROM.
251 Attempting Service Mode boot from Ethernet
252 Attempting Service Mode boot from SIO attached devices
253 Attempting Service Mode boot from SCSI attached devices
254 Attempting Service Mode boot from 9333 subsystem device
255 Attempting Service Mode boot from from 7012 DBA Disk
256 Attempting Service Mode boot from Ethernet
257 Attempting Service Mode boot from Token Ring
258 Attempting Service boot from Token Ring specified by user.
259 Attempting a service mode IPL from FDDI specified by the operator.
25c Attempting a service mode IPL from FDDI specified in IPL ROM device list.
260 ROM attempting to display information on the native console.
261 ROM did not find a native display adapter and information will be displayed on
the TTY console.
262 ROM did not detect a keyboard while attempting to display information.
263 Attempting a Normal-mode restart from adapter feature ROM specified in NVRAM
device list.
269 Stalled State - cannot boot system end of boot list reached
270 Durandoak Ethernet Adapter (LCE) POST executing.
271 Mouse device and adapter POST executing.
272 Tablet adapter POST executing.
276 San Remo Ethernet adapter POST executing.
277 Auto Token-Ring LANstreamer MC 32 Adapter POST.
278 Video ROM SCAN POST executing.
279 FDDI POST.
280 3COM Ethernet POST
281 Keyboard POST executing.
282 Parallel port POST executing.
283 Serial port POST executing.
284 POWER Gt1 graphics adapter POST executing.
285 POWER Gt3 graphics adapter POST executing.
286 Token Ring adapter POST executing.
287 Ethernet adapter POST executing.
288 Adapter card slots being queried.
289 POWER Gt0 graphics adapter POST executing.
290 Testing I/O planar
291 Standard I/O planar being tested.
292 SCSI or SSA adapter POST executing.
293 Bus attached disk POST executing.
294 TCW SIMM in slot J being tested.
295 Color graphics display adapter POST executing.
296 Family 2 feature adapter ROM POST executing.
297 System model number could not be determined.
298 Attempting a warm IPL.

299 Boot ROM passed control to loaded code.

IPL ROS Flash EPROM Codes (300 -325)

- 301 Flash Utility ROM test failed or checkstop occurred (irrecoverable).
- 302 Flash Utility ROM: User prompt, move key to service position in order to perform an optional Flash Update. LED 302 will only appear if the Key switch is in secure. This signals the user that a Flash Update may be initiated by moving the key switch to service. If the key is moved to service then LED 303 will be displayed which signals the user to press the reset button to select optional Flash Update.
- 303 Flash Utility ROM: User prompt, press reset button in order to perform an optional Flash Update. LED 302 will only appear if the Key switch is in secure. This signals the user that a Flash Update may be initiated by moving the key switch to service. If the key is moved to service then LED 303 will be displayed which signals the user to press the reset button to select optional Flash Update.
- 304 Flash Utility ROM IOCC POST Error (irrecoverable).
- 305 Flash Utility ROM Standard I/O POST running.
- 306 Flash Utility ROM is attempting IPL from Flash Update media device.
- 307 Flash Utility ROM system model number does not compare between OCS and ROM (irrecoverable).
- 308 Flash Utility ROM: IOCC bad TCW SIMM in being tested.
- 309 Flash Utility ROM passed control to a Flash Update Boot Image.
- 311 Flash Utility ROM CRC comparison error (irrecoverable).
- 312 Flash Utility ROM RAM POST memory configuration error or no memory found (irrecoverable).
- 313 Flash Utility ROM RAM POST failure (irrecoverable).
- 314 Flash Utility ROM Power status register failed (irrecoverable).
- 315 Flash Utility ROM detected a low voltage condition.
- 318 Flash Utility ROM RAM POST is looking for good memory.
- 319 Flash Utility ROM RAM POST bit map is being generated.
- 322 CRC error on media Flash Image. No Flash Update performed.
- 323 Current Flash Image is being erased.
- 324 CRC error on new Flash Image after Update was performed. (Flash Image is corrupted).
- 325 Flash Update successful and complete.

326 - 3CC (Reserved)

AIX Event Indicators

Configuration Program Indicators

```
2E6 Ultra/Wide Differential SCSI adapter being configured
2E7 Config method unable to determine if SCSI adapter type SE or DE type
40c Victory Mini-Support Processor being configured
41c Victory Plug In Adapter Support Processor being Configured.
42c Waiting for Interactive Maintenance Analysis Procedures (IMAPS)request.
43c Configuring Interactive Maintenance Analysis Procedures (IMAPS) connection.
440 9.1GB SE Ultra drive (Mako 68 pin)
440 9.1GB Ultra SCSI Disk Drive being configured
441 18.2GB SE Ultra drive (Mako 68 pin)
441 18.2GB Ultra SCSI Disk Drive being identified or configured
442 9.1GB LVD Ultra drive (Neptune 80 pin)
443 18.2GB LVD Ultra drive (Neptune 80 pin)
444 2-Port Multiprotocol PCI Adapter being identified or configured
444 Cost-reduced Hermosa WAN adapter
447 Emulex LP9000 (Centaur) PCI 64 FCS adapter (Flipper64)
447 PCI 64-bit Fibre Channell Arbitrated Loop Adapter being configured
4c0 4c5 Reserved for Rochester AS4D AIX IOP device driver usage.
500 Querying Standard I/O.
501 Querying card in slot 1.
502 Querying card in slot 2.
503 Querying card in slot 3.
504 Querying card in slot 4.
505 Querying card in slot 5.
506 Querying card in slot 6.
507 Querying card in slot 7.
508 Querying card in slot 8.
509 Configuring ATL L500 library (tower configuration) -- IBM machine 7337-410
510 Starting device configuration.
511 Device configuration completed.
512 Restoring device configuration files from media.
513 Restoring basic operating system installation files from media.
516 Contacting server during network boot
517 Mounting client remote file system during network IPL.
518 Remote mount of the root and /usr filesystems failed during network
boot.
519 Configuring ATL L500 library (rack configuration) --- IBM machine 7337-411
520 Bbus configuration running.
521 /etc/init invoked cfgmgr with invalid options; /etc/init has
been corrupted or incorrectly modified (irrecoverable error).
522 The configuration manager has been invoked with conflicting
options (irrecoverable error).
523 The configuration manager is unable to access the ODM database
(irrecoverable error).
524 The configuration manager is unable to access the config rules
object in the ODM database (irrecoverable error).
525 The configuration manager is unable to get data from a
customized device object in the ODM database (irrecoverable error).
526 The configuration manager is unable to get data from a
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customized device driver object in the ODM database (irrecoverable error).

- 527 The configuration manager was invoked with the phase 1 flag; running phase 1 flag; running phase 1 at this point is not permitted (irrecoverable error).
- 528 The configuration manager cannot find sequence rule, or no program was specified in the ODM database (irrecoverable error).
- 529 The configuration manager is unable to update ODM data (irrecoverable error).
- 530 The program "savebase" returned an error.
- 531 The configuration manager is unable to access PdAt object class (irrecoverable error)
- 532 There is not enough memory to continue (malloc failure); irrecoverable error.
- 533 The configuration manager could not find a configure method for a device.
- 534 The configuration manager is unable to acquire database lock. irrecoverable error.
- 536 The configuration manager encountered more than one sequence rule specified in the same phase. (irrecoverable error).
- 537 The configuration manager encountered an error when invoking the program in the sequence rule.
- 538 The configuration manager is going to invoke a configuration method.
- 539 The configuration method has terminated, and control has returned to the configuration manager.
- 540 IP Security (IPSec) kernel extensions being configured during IPL.
- 541 Configuring ATL L500 DLT7000 drive sled assembly
- 541 A DLT tape device is being configured
- 542 Configuring ATL L200 autoloader -- IBM machine 7205-342
- 543 Configuring ATL L200 DLT7000 drive sled assembly
- 544 ECP peripheral configure method executing.
- 545 Parallel port ECP device driver being configured.
- 546 IPL cannot continue due to error in customised data base.
- 547 Rebooting after error recovery (LED 546 preceded this LED)
- 548 Restbase failure.
- 549 Console could not be configured for the "Copy a System Dump Menu.
- 550 ATM LAN Emulation device driver being configured.
- 551 IPL Varyon is running
- 552 IPL Varyon failed.
- 553 IPL phase 1 is complete.
- 554 The boot device could not be opened or read, or unable to define NFS swap device during network boot.
- 555 ODM error when trying to varyon the rootvg, or unable to create an NFS swap device during network boot.
- 556 Logical Volume Manager encountered error during IPL varyon.
- 557 The root filesystem will not mount.
- 558 There is not enough memory to continue the system IPL.
- 559 Less than 2MB of good memory are available to load the AIX kernel.
- 560 Unsupported Monitor attached to display adapter.
- 561 Configuring Target Mode SSA device software.
- 562 Configuring HIPPI network layer.
- 565 Configuring the MWAVE subsystem.
- 566 Configuring Namkan twinax commo card (5250 emulation)

```
567 Configuring HIPPI device driver (fpdev)
568 Configuring HIPPI device driver (fhip)
569 FCS SCSI Protocol device is being configured
570 Virtual SCSI devices being configured.
571 HIPPI common function device driver being configured.
572 HIPPI IPI-3 master transport driver being configured.
573 HIPPI IPI-3 slave transport driver being configured.
574 HIPPI IPI-3 transport services user interface device driver being configured.
575 IBM 9570 RAID 3 disk array device driver being configured.
576 Vendor Async device driver configuration.
576 Generic async device driver being configured.
577 Generic SCSI device driver being configured.
578 Generic commo device driver being configured.
579 Device driver being configured for a generic device.
580 HIPPI TCPIP network interface driver being configured.
577 Vendor SCSI device driver configuration.
578 Vendor Commo device driver configuration.
579 Configuring a generic vendor device driver configuration.
580 HIPPI TCPIP network interface driver being configured.
581 Configuring TCP/IP.
582 Configuring token ring data link control
583 Configuring ethernet data link control
584 Configuring IEEE ethernet data link control
585 Configuring SDLC MPQP data link control
586 Configuring QLLC X.25 data link control
587 Configuring NETBIOS
588 Configuring a Bisync Read-Write (BSCRW).
589 SCSI target mode device being configured.
590 Diskless remote paging device being configured.
591 Configuring an LVM device driver.
592 Configuring an HFT device driver.
593 Configuring SNA Device Drivers or Configuring LFT.
594 Asynchronous I/O being defined or configured.
595 X.31 pseudo device being configured.
596 SNA DLC/LAPE pseudo device being configured.
597 OCS Software being configured.
598 OCS hosts being configured during system reboot.
599 Configuring FDDI data link control.
59c Tarpon/Shark storage subsystem device driver configuration.
5c0 Streams based hardware driver being configured.
5c1 Streams based X.25 protocol stack being configured.
5c2 Streams based X.25 COMIO emulator driver being configured.
5c3 Streams based X.25 TCP/IP interface driver being configured.
5c4 FCS adapter device driver being configured.
5c5 Pseudo device for IP mapping Network device driver for FCS being configured.
5c5 SCB network device driver for FCS is being configured.
5c6 AIX SNA Channel being installed and configured.
600 Starting network boot portion of /sbin/rc.boot
602 Configuring network parent devices.
603 /usr/lib/methods/defsys, /usr/lib/methods/cfgsys, or
/usr/lib/methods/cfgbus failed.
604 Configuring physical network boot device.
605 Configuration of physical network boot device failed.
```

606 Running /usr/sbin/ifconfig on logical network boot device.
607 /usr/sbin/ifconfig failed.
608 Attempting to retrieve the client.info file with tftp.
Note that a flashing 608 indicates multiple attempt(s) to
retrieve the client_info file are occurring.
609 The client.info file does not exist or it is zero length.
60B 18.2GB 68-pin LVD SCSI Disk Drive being configured
60C Lochmere 1.4 GB IDE disk drive being configured.
610 Attempting remote mount of NFS file system
611 Remote mount of the NFS filesystem failed.
612 Accessing remote files; unconfiguring network boot device.
614 Configuring local paging devices.
615 Configuring of a local paging device failed.
616 Converting from diskette to dataless configuration.
617 Diskless to dataless configuration failed.
61c Lochmere 2.1 GB IDE disk drive being configured.
618 Configuring remote (NFS) paging devices.
619 Configuration of a remote (NFS) paging device failed.
61B 36.4GB 80-pin LVD SCSI Disk Drive being configured.
61D 36.4GB 80-pin LVD SCSI Disk Drive being configured.
61E 18.2GB 68-pin LVD SCSI Disk Drive being configured.
620 Updating special device files and ODM in permanent filesystem with
data from boot RAM filesystem.
621 9.1 GB LVD 80-pin SCSI Drive being configured.
622 Boot process configuring for operating system installation.
625 Creating directory for local NIM mount points.
626 OEM FC SCSI Disk being configured.
627 FC SCSD SCSI Disk being configured.
628 SCSI SCSD FC CDROM Drive being configured.
629 OEM SCSI FC CDROM Drive being configured.
62c Lochmere 3.0 GB IDE disk drive being configured.
62D 9.1GB 68-pin LVD SCSI Disk Drive being configured.
62E 9.1GB 68-pin LVD SCSI Disk Drive being configured.
630 SCSD FC SCSI Read/Write Optical Drive being configured.
631 OEM FC SCSI Read/Write Optical Drive being configured.
632 25 Mbs Charm 1.5 ATM adapter being configured.
633 155 Mbs Charm 2.1 UTP ATM adapter being configured.
634 155 Mbs Charm 2.1 MMF ATM adapter being configured.
635 155 Mbs Charm 2.1 SMF ATM adapter being configured.
636 622 Mbs Charm 2.5 BigBend ATM adapter being configured
636 TURBOWAYS 622 Mbps PCI MMF ATM Adapter.
637 Aladdin Dual Channel PCI-2 Ultra2 SCSI Adapter being configured.
638 4.5GB Ultra SCSI Single Ended Disk Drive being configured.
639 9.1GB 10K RPM Ultra SCSI Disk Drive (68-pin) being configured.
63A See 62D.
63B 9.1GB 80-pin LVD SCSI Disk Drive being configured.
63C See 60B.
63D 18.2GB 80-pin LVD SCSI Disk Drive being configured.
63E 36.4GB 68-pin LVD SCSI Disk Drive being configured.
63F See 61B.
640 9.1GB 10K RPM Ultra SCSI Disk Drive (80-pin).
641 Draco 9.1 GB 80-pin LVD Ultra 2 SCSI disk being configured.
642 Draco 4.5 GB LVD 80-pin SCA-2 connector SCSI Disk being configured
643 Hammerhead 18.2 GB LVD 80-pin SCA-2 connector SCSI Disk being configured

644 Swordfish 36.4 GB LVD 80-pin SCA-2 connector SCSI Disk being configured
646 High-Speed Token-Ring PCI Adapter being configured.
649 8X Optical Disk drive being configured (Pirahna Tape Library)
64A See 62E.
64B 9.1GB 80-pin LVD SCSI Disk Drive being configured.
64C See 61E.
64D 18.2 GB LVD 80-pin Drive/Carrier being configured.
64E 36.4GB 68-pin LVD SCSI Disk Drive being configured.
64F See 61D.
650 IBM SCSD disk drive being configured.
651 Reserved (Diagnostics)
652 Reserved (Diagnostics)
653 18.2GB Ultra-SCSI 16-bit Disk Drive being configured.
654 Sailfin Jr. 4.5 GB 68 Pin SCSI SE drive being configured.
655 GXT130P (Maui) Graphics adapter being configured.
656 Polar 3 1/4 inch SCSI tape drive being configured.
657 GXT2000P Mirage graphics adapter being configured.
658 Dolphin 2102 disk array controller configuration.
658 PCI Fibre Channel Disk Subsystem Controller being identified or configured.
659 Dolphin 2102 disk array router configuration.
659 2102 Fibre Channel Disk Subsystem Controller Drawer being identified or configured.
660 Dolphin 2102 Fibre Channel Disk Array being identified or configured.
661 OEM IDE Tape Drive
661 USB host controller configuration.
662 Ultra2 Integrated SCSI controller
662 Smbios 895 based SCSI adapter configuration.
663 The ARTIC960RxD Digital Trunk Quad PCI Adapter or the ARTIC960RxF Digital Trunk Resource Adapter being configured.
664 Brighton 32X SCSI CDROM drive configuration.
665 Sailfin 9.1 GB 80 pin LVD SCSI disk drive configuration.
666 Marlin 18.2 GB 80 pin LVD SCSI disk drive configuration.
667 PCI 3-Channel Ultra2 Clarinet SCSI RAID Adapter being configured.
668 25 Mbs MCA ATM adapter configuration.
669 PCI Gigabit Ethernet Adapter Galaxy being configured.
66C 10/100/1000 Base-T EthernetPCI Adapter.
66D PCI 4-Channel Ultra-3 SCSI RAID Adapter.
66E 4.7 GB DVD-RAM drive
670 Marlin 18.2 GB SCSI 80 Pin SCA driver configuration.
671 Sailfin 9.1 GB SCSI 80 Pin SCA driver configuration.
672 Sailfin 9.1 GB SCSI differential drive configuration.
673 Marlin 18.1 GB SCSI differential drive configuration.
674 ESCON ® Channel PCI Adapter being configured.
675 ARTIC960Hx PCI adapter being configured.
676 ARTIC960Rp PCI adapter being configured.
677 PCI 32-bit Fibre Channel Arbitrated Loop Adapter being configured.
677 Emulex LP7000 PCI 32 FCS adapter(firefly/superfly+) being configured.
678 Cadenza 12 GB 4mm tape drive being configured.
679 Draco 4.5 GB SCSI disk drive being configured.
67a Emulex LP9000 (Centaur) PCI 64 FCS adapter (Flipper64)
67B PCI Cryptographic Coprocessor being configured.
680 Supermint MCA Graphics Adapter being configured.
681 Sailfin 9.1 GB Single Ended SCSI disk Drive being configured.

682 20x (MAX) SCSI-2 CD-ROM Drive being configured.
682 ALTA 12X - 20X CDROM drive being configured.
683 IBM 2105 Device being configured.
684 RS 422 Concentrator being configured.
685 Sagebrush Graphics adapter being configured.
686 Medina 8-Port Async PCI adapter being configured.
687 Trinity 128-Port Async adapter being configured.
688 SCSI MC-Disk PCMCIA Card reader being configured.
689 Scorpion 4.5GB Ultra SCSI Single Ended Disk Drive being configured.
68C 20 GB 4-mm Tape Drive being configured.
68E POWER GXT6000P PCI Graphics Adapter.
690 Scorpion 9.1GB Ultra SCSI Single Ended Disk Drive being configured.
691 Turboway 25 Mbs PCI ATM adapter being configured.
692 7205-311 30 GB DLT Tape (Bullhead) drive being configure.
693 ISDN PCI Basic Rate adapter being configured.
694 ISDN MCA Basic Rate adapter being configured.
695 X.25 PCI Coprocessor adapter being configured.
696 Lumbee (Meerkat) 8 MB SM fiber adapter being configured.
697 Lumbee (Gemini- lite) 1 MB MM fiber adapter being configured.
698 Lumbee (Orbitor) 1 MB UTP fiber adapter being configured.
699 Candlestick Park (10/100 Mbs Ethernet adapter being configured.
69b 64-bit/66MHz PCI ATM 155 MMF PCI adapter being configured.
69d 64-bit/66MHz PCI ATM 155 UTP PCI adapter being configured.
6c8 Lochmere Display device driver being configured.
6cc SSA disk drive being configured.
700 Starfire 1.1 GB 8 Bit SCSI Disk being configured.
701 Starfire 1.1 GB 16 Bit SCSI Disk being configured.
702 Starfire 1.1 GB 16 Bit Differential Disk being configured.
703 Starfire 2.2 GB 8 Bit SCSI Disk being configured.
704 Starfire 2.2 GB 16 Bit SCSI Disk being configured.
705 The configuration method for the 2.2GB 16-bit differential SCSI
disk drive is being run. If a irrecoverable error occurs, the
system halts.
705 Starfire 2.2 GB 16 Bit Differential SCSI Diff Disk being configured.
706 Starfire 4.5 GB 16 Bit SCSI Disk being configured.
707 Starfire 4.5 GB 16 Bit Differential Disk being configured.
708 L2 Cache being configured.
709 Frio ISA 128 port async adapter being configured.
70c 270 MB SCSI disk drive (Sandalfoot - Satsuma 1) being configured.
710 POWER GXT150M Neptune graphics adapter being identified/configured.
711 Unknown adapter being identified or configured.
712 Graphics slot bus configuration is executing.
713 Artic 960 adapter being identified/configured
714 Sunrise Video Capture Adapter being identified/configured
715 Fox Club Ultimedia Services audio adapter is being configured. This LED
displays briefly on the panel.
716 Pegasus system memory
717 Durandoak ethernet adapter being configured.
718 GXT 500 display adapter (Magenta)
71c 340 MB SCSI disk drive (Sandalfoot - Conner) being configured.
720 Unknown Read/Write optical drive being identified/configured.
721 Unknown Disk being identified/configured.
721 Unknown SCSI device being identified/configured.
722 Unknown Disk being identified/configured.

723 Unknown CDROM being identified/configured.
724 Unknown Tape being identified/configured.
725 Unknown Display being identified/configured.
726 Unknown Input device being identified/configured.
727 Unknown Async device being identified/configured.
728 Parallel Printer being identified/configured.
729 Unknown Parallel device being identified/configured.
72c 540 MB SCSI disk drive (Sandalfoot - Maxtor) being configured.
730 Unknown diskette drive type being identified/configured.
731 PTY being identified/configured.
732 Unknown SCSI initiator type being configured.
733 Timberwolf 7GB 8mm tape drive being configured.
734 Nueces 4x SCSI-2 640MB CD-ROM Drive
735 Satsuma 540 MB SCSD SCSI disk drive being configured.
736 Quiet Touch keyboard and speaker cable being configured.
736 PS/2 Woodfield keyboard being configured.
737 Woodfield 540 MB SCSI Disk being configured.
738 Woodfield 810 MB SCSI disk being configured.
739 Woodfield CDROM drive being configured.
73c 540 MB SCSI disk drive (Sandalfoot - Quantum) being configured.
740 Pegasus 540 MB SCSI disk drive being configured.
741 Pegasus 1080 MB SCSI disk drive being configured.
742 Klickitat PCI Ethernet adapter being configured.
743 IsoFDDI adapter being identified/configured.
744 Carrera Power Management chip being configured.
745 Andante Tape Autoloader 16GB 4mm being configured.
746 SCSI-2 FW PCI Adapter being configured.
747 SCSI-2 Differential FW PCI Adapter being configured.
748 MCA/CHRP systems keyboard/mouse adapter being configured.
749 Timberwolf 7331-205 Tape library being configured
74c ISA bus Token Ring Adapter (Sandalfoot) being configured.
750 Skyline Token Ring adapter being configured.
751 Copperhead SCSI 32-bit SE F/W RAID Adapter being configured.
752 OEM IDE Disk Drive being configured.
753 OEM IDE CD ROM Drive being configured.
754 1.1GB 16-bit SCSI disk drive being configured
755 2.2GB 16-bit SCSI disk drive being configured
756 4.5GB 16-bit SCSI disk drive being configured
757 Telemark External 13GB 1.5M/s 1/4 inch tape drive being configured
758 Aladdin 540 MB SCSI Drive being configured.
759 PC Co. Pegasus 1080 MB SCSI disk being configured.
75c ISA bus Ethernet Adapter (Sandalfoot) being configured.
760 SCSI adapter function of LSA card being configured.
761 Ethernet adapter function of LSA card being configured.
762 SP: Configuration is running for the TB3 SP switch adapter card
763 SP Switch TB3 MX Adapter being configured.
764 SP System Attachment Adapter TB3 being configured.
765 Reserved - PowerParallel system MCA adapter
766 Reserved - PowerParallel system MCA adapter
767 Reserved - PowerParallel system Hi performance Switch (HPS)
768 Reserved - PowerParallel system HPS
769 Reserved - PowerParallel system HPS
76c Sandalfoot 730 MB Satsuma SCSI drive being configured.

770 Reserved - PowerParallel system HPS
771 Reserved - PowerParallel system HPS
772 4.5GB SCSI F/W Disk Drive
773 9.1GB SCSI F/W Disk Drive
774 9.1GB External SCSI Disk Drive being configured.
775 Cobalt Graphics adapter being configured.
776 PCI Token-Ring Adapter Cricketstick being identified/configured.
777 Phoenix 10/100 Ethernet Tx PCI Adapter being identified or configured.
778 Sierra GXT3000P 3D PCI Graphics adapter being configured.
779 Mercury 3D PCI Graphics Adapter
77a Enhanced Mirage (GXT2200P) FFC=2824 being configured
77b Clover 4-port 10/100 Ethernet Adapter being configured
77c 1GB 16-bit SCSI disk drive being identified/configured.
780 CLX ISA X25 Adapter
781 Gale SDLC ISA Adapter
782 Quantum Fireball 1.2GB hardfile being configured.
783 Hidalgo 4mm DDS-2 Tape Autoloader being configured.
784 Orion 2160 MB SCSI Disk drive being configured.
785 San Gabriel ISA 8 Port EIA 232/RS 422 Adapter
786 GXT250P/GXT255P(Skyblue) graphic adapters being configured.
787 GXT500P/GXT550P (Mint) graphics adapter being configured.
788 Stream Video Capture card being configured.
789 Brewster 2.6GB External Optical Drive being configured
78B Sonora Lite GXT4000P PCI Graphics Adapter being configured.
78C PCI bus configuration executing.
78D GXT300P 2D Graphics adapter being configured.
790 Multi-bus Integrated Ethernet Adapter being identified/configured.
791 Blanco 2.2 GB SCSI Disk Drive being Configured
792 Blanco 4.5 GB SCSI Disk Drive being Configured
793 Blanco 9.1 GB SCSI Disk Drive being Configured
794 San Remo 100 Mbps MCA Ethernet adapter being configured.
795 Honeycomb PCI FDDI adapter being configured.
796 Honeycomb MCA FDDI adapter being configured.
797 Turboways 155 UTP/STP ATM Adapter being identified/configured
798 Turboway 155 MPEG ATM adapter being configured.
798 Video streamer being identified or configured
799 Hermosa 2-Port Multiprotocol PCI adapter being identified/configured.
79c ISA bus configuration executing.
7C0 CPU/System Interface being configured.
7C1 Business Audio Subsystem being identified/configured.
7c2 Starfire 1.1 GB 16B SCSI SE Disk drive with Allthorn Carrier
7c3 Sandalfoot Spitfire 1 GB 8B SCSI SE disk drive being configured.
7c4 Starfire 2.2 GB 16B SE disk drive with Allthorn carrier.
7c5 Presto 810 MB SCSI Disk being configured.
7c6 Starfire 4.4 GB 16B SE disk drive with Allthorn carrier.
7c7 Woodfield display device driver being configured
7c8 Woodfield video capture/playback device driver being configured.
7c9 Presto 1.2 GB SCSI Disk being configured.
7cc PCMCIA bus configuration executing.
800 Turboways 155 MMF ATM Adapter being identified/configured
801 Reserved (Diagnostics)
802 Reserved (Diagnostics)
803 7336 Tape Library Robotics being configured
804 ASPEN 8x CDROM Drive SCSI-2 being configured

806 GXT800 (Supermint) PCI Graphics adapter being configured.
807 SCSI Device Enclosure being configured.
808 Pegasus SIF (System Interface Full) configuration process
809 Reserved (Diagnostics)
80c Mayflower SSA 4-Port Adapter being indentified or configured
810 Reserved (Diagnostics)
811 Processor Complex being identified/configured.
812 Memory being identified or configured.
813 Battery for time-of-day, NVRAM, and so on being identified/ configured, or
system I/O Control Logic being identified/ configured.
814 NVRAM being identified/configured.
815 Floating Point Processor being identified/configured.
816 Operator Panel Logic being identified/configured.
817 Time of Day Logic being identified/configured.
818 Reserved (diagnostics)
819 Graphics Input Device Adapter being identified/configured.
81c S3 928 PCI graphics adapter being configured.
820 Interprocessor related testing
821 Standard Keyboard adapter being identified/configured.
823 Standard Mouse adapter being identified/configured.
824 Standard Tablet adapter being identified/configured.
825 Standard Speaker adapter being identified/configured.
826 Serial Port 1 adapter being identified/configured.
827 Parallel port adapter being identified/configured.
828 Standard Diskette Adapter being identified/configured.
829 Lumbee PCI ATM adapter being configured.
82c Weitek P9000 PCI graphics adapter being configured.
830 Creek 8-Port ISA Async Adapter
831 IBM3151 adapter being identified or configured, or Serial Port 2
being identified or configured.
832 Reserved (Diagnostics)
833 Reserved (Diagnostics)
834 64-Port Async Controller being identified/configured.
835 16-Port Async Concentrator being identified/configured.
836 128-Port Asynchronous Controller
837 16-port RAN, 16-EIA-232 being identified or configured.
838 Bitternut Network Terminal Accelerator adapter being identified/configured.
839 Bitternut 7318 Serial Communication Server being configured.
83c SP2 High Performance Switch (HPS) being configured.
840 PCI Single-Ended Ultra SCSI Adapter being configured.
841 8-Port Async Adapter (EIA-232) being identified/configured.
842 8-Port Async Adapter (EIA-422A) being identified/configured.
843 8-Port Async Adapter (MIL-STD 188) being identified/configured.
844 Allthorn 7135 RAIDiant Array disk drive subsystem drawer being identified
845 7135 RAIDiant Array disk drive subsystem drawer being identified or
configured.
846 RAIDiant Array SCSI 1.3GB Disk Drive
847 16-Port Serial Adapter (EIA-232) being identified/configured.
848 16-Port Serial Adapter (EIA-422) being identified/configured.
849 X.25 Communications Adapter being identified/configured.
84c Slimline CD ROM Drive (Sandalfoot) being configured.
850 Token-Ring Network adapter being identified/configured.
851 T1/J1 Portmaster adapter being identified or configured.

852 Ethernet adapter being identified/configured.
853 SCSI D I/O controller being identified/configured.
854 3270 Connection being identified/configured.
855 4-port multiprotocol adapter being identified or configured.
856 POWER RADIANT device driver being configured
857 FSLA adapter being identified/configured.
858 5085/86/88 adapter being identified/configured.
859 FDDI adapter being identified/configured.
85c Wildwood Token-Ring High-Performance LAN adapter being identified/configured.
860 Twin Tail adapter being identified/configured.
861 Optical adapter being identified/configured.
862 Block multiplexer channel adapter being identified/configured.
863 MAP adapter being configured.
864 Serial Channel adapter being identified/configured.
865 370 Serial Channel adapter being identified/configured
866 SCSI Adapter being identified/configured.
867 Async Expansion adapter being identified/configured.
868 SCSI Adapter being identified/configured.
869 SCSI Adapter being identified/configured.
86c 270 MB SCSI disk drive (Sandalfot - Quantum) being configured.
870 Serial Disk Drive Adapter being identified/configured.
871 Graphics Subsystem Adapter being identified/configured.
872 Grayscale Graphics adapter being identified/configured.
873 Skyway 16 adapter being identified/configured.
874 Color Graphics adapter being identified/configured.
875 Vendor generic type communication adapter being configured.
876 8-Bit Color Graphics Processor being identified/configured.
877 POWER Gt3/Gt4 being identified or configured.
878 GT4 Graphics adapter being identified/configured.
879 24-bit Color Graphics Processor MEV2 being identified/configured
87c 360 MB SCSI disk drive (Sandalfot - Satsuma 2) being configured.
880 POWER Gt1 graphics adapter being identified/configured.
881 Channel Attached Printer Adapter
882 Serial Attached Printer Adapter
883 Japan Pegasus support.
884 3117 Scanner Adapter
885 3118 Scanner Adapter
886 3119 Scanner Adapter
887 Integrated ethernet adapter being identified/configured.
888 Reserved
889 SCSI adapter being identified or configured.
88c 540 MB SCSI disk drive (Sandalfot - Satsuma 3) being configured.
890 Corvette SCSI-2 DE/FW and SE/FW adapter being configured.
891 Vendor SCSI adapter being identified/configured.
892 Vendor Display adapter being identified/configured.
893 Vendor LAN adapter being identified/configured.
894 Vendor Async/Communications adapter being identified/configured.
895 Vendor IEEE 488 adapter being identified/configured.
896 Vendor VME Bus adapter being identified/configured.
897 S/370 Channel Emulator Adapter being identified or configured.
898 White Oak GT1X graphics adapter being identified or configured
899 Yuma/Calva 3490 attached tape drive being identified or configured
89c Bandera multimedia SCSI CD-ROM is being identified/configured.
8c0 Coral chip IDE ports being configured.

8c1 Exabyte 2502 IDE tape drive being configured.
8c2 IDE CD-ROM XA 2x being configured.
8c3 270 MB IDE disk drive being configured.
8c4 360 MB IDE disk drive being configured.
8c5 540 MB IDE disk drive being configured.
8c6 720 MB IDE disk drive being configured.
8c7 1 GB IDE disk drive being configured.
8cc WDC AC1270F 270 MB IDE disk being configured
900 Brushy GXT110P Graphics Adapter being identified/configured.
901 Vendor SCSI device being identified/configured.
902 Vendor Display being identified/configured.
903 Vendor Async device being identified/configured.
904 Vendor Parallel device being identified/configured.
905 Vendor other adapter type being configured.
906 IBM Premier Speech Recognition adapter I being configured.
907 IBM Premier Speech Recognition adapter II being configured.
908 Ruby GXT1000 graphics subsystem being identified/configured
909 PEGASUS LSA (LAN SCSI/ADAPTER) being configured.
90c DALA-3420 420 MB IDE disk being configured.
910 1/4GB Fibre Channel/266 Standard Adapter being indetified or configured
911 Fibre/Channel/1063 Adapter Short Wave.
912 2GB SCSI-2 differential tape drive being identified/configured
913 1GB SCSI-2 differential tape drive being identified/configured
914 5GB 8mm differential tape drive being identified/configured
915 Rhapsody 4GB 4mm SCSI Tape drive being identified/configured.
916 Non-SCSI vendor tape adapter being identified or configured
917 2.4GB 16-bit DE SCSI disk drive being identified/configured
918 2.4GB 16-bit SE SCSI disk drive being identified/configured
919 Multimedia Audio adapter being identified/configured.
91c Sandalfoot 4mm 2GB tape drive being configured.
920 Bridge box being identified or configured
921 Keyboard 101 being identified/configured.
922 Keyboard 102 being identified/configured.
923 Keyboard Kanji being identified/configured.
924 2-Button Mouse being identified/configured.
925 3-Button Mouse being identified/configured.
926 Tablet 5083 Model 21 being identified/configured.
927 Tablet 5083 Model 22 being identified or configured
928 Standard speaker being identified or configured
929 Dials being identified or configured
930 Lighted Program Function Keys(LPFK) being identified or
configured
927 Tablet 5083 Model 22 being identified/configured.
928 Standard Speaker being identified/configured.
929 Dials being identified/configured.
92c DALA-3540 540 MB IDE disk being configured.
930 Lighted Program Function Keys (LPF) keyboard being
931 IP router being identified or configured
933 Async Planar being identified/configured.
934 Async Expansion Drawer being identified/configured.
935 2 MB 3.5-Inch Diskette Drive being identified/configured.
936 5.25-Inch Diskette drive being identified/configured.
937 HIPPI adapter (Torch) being configured.

938 (Yukon) Serial HIPPI PCI adapter being configured.
939 Reserved (Diagnostics)
93c DPEA-30540 540 MB IDE disk being configured.
940 Reserved (Diagnostics)
942 Baby Blue GXT100 graphics adapter being identified/configured
943 3480 and 3490 control units attached to a System/370 Channel Emulator/A
adapter are identified/configured.
944 100MB ATM adapter being configured
945 Spitfire 1 GB 16 Bit DE drive being identified/configured.
946 Serial port 3 adapter is being identified or configured.
947 Satsuma730MB SCSI disk drive is being configured.
948 Portable disk drive being identified or configured
949 Unknown Bus Attached Disk Drive being identified/configured.
94c WDC AC2540H 540 MB IDE disk being configured.
950 Missing SCSI device being identified or configured
951 670 MB SCSI Disk Drive being identified/configured.
952 355 MB SCSI Disk Drive being identified/configured.
953 320 MB SCSI Disk Drive being identified/configured.
954 400 MB SCSI Disk Drive being identified/configured.
955 857 MB SCSI Disk Drive being identified/configured.
956 670 MB SCSI Disk Drive being identified/configured.
957 120 MB Direct Bus Attached Disk Drive being identified/configured.
958 160 MB Direct Bus Attached Disk Drive being identified/configured.
959 160 MB SCSI Disk Drive being identified/configured.
95c WDC AC2700H 730 MB IDE disk being configured.
960 1.37GB SCSI disk drive being identified/configured.
961 Route 66 2 Port Serial Adapter being configured.
962 Route 66 Ethernet Adapter being configured.
964 Mammoth 20 GB 8mm tape drive being configured
965 Route 66 Token Ring Adapter being configured.
966 Digital to Analog Video Decoder Adapter being configured.
967 Peermaster (Xpoint) Ethernet adapter being configured.
968 1.0GB 3.5" SCSI disk drive being identified or configured.
969 Reserved (Diagnostics)
96c DPEA-30810 810 MB IDE disk being configured.
970 0.5-Inch 9-Track Tape drive being identified/configured.
971 150 MB .25-Inch Tape drive being identified/configured.
972 8mm SCSI Tape drive being identified/configured.
973 Other SCSI Tape drive being identified/configured.
974 CDROM drive being identified/configured.
975 ERIMO optical disk drive is being identified/configured.
976 RISC System/6000 SCSI I/O Controller Initiator
977 M-Audio capture and playback adapter being identified/configured.
978 IEEE 4888 Adapter being identified/configured.
979 7246 SBS Frame Buffer Adapter being configured.
97c DPEA-301080 1080 MB IDE disk drive being configured.
980 TBO - IBM Switching network interface adapter being configured.
981 540MB SCSI-2 disk drive being identified or configured.
982 Graphics Visualization Server Adapter
983 XGA graphics adapter being identified/configured.
984 1GB 8-bit disk drive being identified/configured.
985 M-Video capture and playback adapter being identified or configured.
986 2.4 GB SCSI Disk Drive being identified/configured.
987 Enhanced SCSI CD-ROM drive is being identified/configured.

988 KILLY FDDI adapter being configured.
 989 200 MB SCSI Disk Drive being identified/configured.
 98c WDC AC31000H 1083 MB IDE disk being configured.
 990 2.0 GB SCSI Disk Drive being identified/configured.
 991 525 MB 1/4 inch SCSI Tape being identified/configured.
 992 4755 Cryptographic adapter being configured.
 993 Raven File Server product being configured.
 994 5 GB 8mm Tape Drive being identified/configured
 995 1.2GB 1/4-Inch tape drive being identified/configured.
 996 MP/A adapter being configured.
 997 Twisted pair FDDI adapter being identify/configured.
 998 2GB 4mm tape drive being identified/configured.
 999 7137 or 3514 Disk Array Subsystem being identified/configured
 99c 2 GB SCSI Disk drive being configured.
 D46 Token-Ring Cable
 D50 SCSI Device/SCSI Cable/SCSI Terminator
 D81 T2 Ethernet Adapter II being configured
 2530 10/100 Mbps Ethernet PCI Adapter being configured

Valid Power Failure Codes			Type of Failure
Digit 1	Digit 2	Digit 3	
blank	blank	blank	No
8			Fan P49B.
4			Fan P49C.
u			= Digit 1 Codes 8 and 4.
	8		Fan at P47.
	4		Fan P46A or P46 or both.
	2		Fan P49A.
	6		= Digit 2 Codes 4 and 2.
	c		= Digit 2 codes 8 and 2.
	u		= Digit 2 codes 8 and 4.
	Inverted F		= Digit 2 codes 8, 4 and 2.
		8	Excessive temperature in power supply.
		4	Power failure in power supply.
		2	Power failure outside power supply.
		1	Loss of primary power.

CHRP Version 3 logs ELA Source Numbers

A00 - A1F CHRP Version 3 ELA
 A20 - AFF Reserved

Diagnostics Load Progress Indicators

c00 AIX Install/Maintenance loaded successfully.
c01 Insert the first diagnostic diskette.
c02 Diskettes inserted out of sequence.
c03 The wrong diskette is in diskette drive.
c04 The loading stopped with a nonrecoverable error.
c05 A diskette error occurred.
c06 The rc.boot configuration shell script is unable to determine type of boot.
c07 Insert the next diagnostic diskette.
c08 RAM file system started incorrectly.
c09 The diskette drive is reading or writing a diskette.

Kernel Debugger Codes

c20 An unexpected halt occurred, and the system is configured to enter the kernel debug program instead of entering a system dump.

Boot and Install Codes

c21 The ifconfig command was unable to configure the network for the client network host.
c22 The tftp command was unable to read client's ClientHostName info file during a client network boot.
c24 Unable to read client's ClientHostName.info file during a client network boot.
c25 Client did not mount remote miniroot during network install.
c26 Client did not mount the /usr file system during the network boot.
c29 The system was unable to configure the network device.

Console

c31 Select the console display for the diagnostics. To select No console display, set the key mode switch to Normal then to Service. The

diagnostic programs will then load and run the diagnostics automatically.

c32 A direct-attached display (HFT/LFT) was selected.
c33 A tty terminal attached to serial ports S1 or S2 was selected.
c34 A file was selected. The console messages store in a file.
c35 No Console Found

BOS Install Codes

c40 Configuration files are being restored.
c41 Could not determine the boot type or device.
c42 Extracting data files from diskette.
c43 Cannot access the boot/install tape.
c44 Initializing installation database with target disk information.
c45 Cannot configure the console.
c46 Normal installation processing.
c47 Could not create a physical volume identifier (PVID) on disk.
c48 Prompting you for input.
c49 Could not create or form the JFS log.
c50 Creating root volume group on target disks.
c51 No paging devices were found.
c52 Changing from RAM environment to disk environment.
c53 Not enough space in the /tmp directory to do a preservation installation.
c54 Installing either BOS or additional packages.
c55 Could not remove the specified logical volume in a preservation installation.
c56 Running user-defined customization.
c57 Failure to restore BOS.
c58 Displaying message to turn the key.
c59 Could not copy either device special files, device ODM, or volume group information from RAM to disk.
c61 Failed to create the boot image.
c62 Loading platform dependent debug files.
c63 Loading platform dependent data files
c64 Failed to load platform dependent data files

Diagnostic Codes

c70 Problem Mounting diagnostic CDROM disc
c99 Diagnostics have completed. This code is only used when there is no console.
Fxx Fxx, (xx is any character) - Victory Firmware usage.

Updated Apr 2004 by Bruno Croft

File created by Andreas Dilger

LED sequence.

New NIM LEDs

- 623 - BOS installation program encountered a fatal error.
- 624 - Control passed to BOS install.
- 625 - Failure attempting to create a directory in a SPOT that is being used to boot a NIM client over the network.

SP-specific LEDs:

- 000 - The node is in shutdown mode
- 001 - The initialization routine leads to a single user mode
- 762 - Configuration is running for the TB3 SP switch adapter card
- 83u - Configuration is running for the TB2 SP switch adapter card
- 980 - Configuration is running for the TB0 SP switch adapter card
- 99u - The netinstall process for this node has completed
- c27 - The boot device returned from the bootinfo -b command is not valid
- u00 - Invalid bootp_response specified in install_info file
- u01 - Getting boot information
- u02 - Configuring the boot network
- u03 - tftp of /tftpboot/.install_info file from boot/install server failed
- u04 - Expanding .install_info file variables for use in rc.boot
- u05 - tftp of /usr/lpp/ssp/install/backup/config.bff file failed
- u06 - Starting to setup the display
- u07 - Exiting phase 1 network boot
- u20 - tftp of the /usr/lpp/ssp/install/backup/dispdskt.bff file failed
- u21 - Reconfiguring the network
- u22 - Replacing the default network boot ODM cfgrules
- u23 - Issuing config manager (cfgmgr)
- u24 - Reconfiguring the network
- u25 - Issuing config manager again (cfgmgr)
- u26 - Configuring the console (cfgcon)
- u30 - tftp of the /usr/lpp/ssp/install/backup/instmain.diskette file failed
- u31 - Restoring the files in the instmaint.diskette backup file
- u32 - Configuring tape drives, if any
- u33 - Invoking mk_autoinst_files to create files. Possible corruption of /usr/lpp/ssp/install/bin/config.bff
- u34 - Exiting prepare_auto_install routine
- u50 - Beginning rc.boot phase 2 - get the boot information and expand the install_info variables
- u51 - The node has been recognized as a uni-processor, and bos.rte.up is about to be installed
- u52 - The node has been recognized as a SMP node, bos.rte.mp is about to be installed
- u53 - Installing the ssp.ha feature on the node
- u54 - The installation process has invoked the AIX netinstall program bosmain to

install the AIX image

- u55 - bosboot failed when creating a bootable image on a SMP node
- u56 - Possible problems mounting the /usr filesystem on the client
- u57 - Restoring the .config_info file
- u59 - Configuring the node using the config_node script
- u60 - Creating server_name, server_hostname, reliable_hostname, and cw_name files in /etc/ssp
- u61 - tftp of the /etc/SDR_dest_info file from the boot/install server has failed
- u62 - Creating the /etc/firstboot file
- u63 - tftp of the /usr/lpp/ssp/install/config/script.cust file from the boot/install server has failed
- u64 - tftp or execution of the /usr/lpp/ssp/install/config/rc.boot.config file has failed
- u65 - The insall/customize/maintenance has been completed and the node is rebooting
- u66 - Setting the clock on the node
- u67 - Copying kerberos configuration file (/etc/krb.conf) from boot server
- u68 - Copying kerberos realms file (/etc/krb.realms) from boot server
- u69 - Copying kerberos server key file (/etc/krb_srvtab) from boot server
- u70 - Beginning of rc.boot setup
- u71 - Start of boot process for a network boot
- u72 - Beginning of initialization for rc.boot
- u73 - Copying ksrvutil program (/usr/lpp/ssp/kerberos/bin/ksrvutil) to change server keys
- u74 - Executing ksrvutil program (/usr/lpp/ssp/kerberos/bin/ksrvutil) to change server keys
- u75 - Copying rcmdtgt program (/usr/lpp/ssp/kerberos/bin/rcmdtgt) from boot server
- u76 - Copying rsh (kshell client) program (/usr/lpp/ssp/kerberos/bin/rsh) from boot server
- u77 - Executing rcmdtgt program (/usr/lpp/ssp/kerberos/bin/rcmdtgt) to get kerberos ticket
- u78 - Executing rsh to complete node processing on boot server
- u79 - tftp of the files /tftpboot/script.cust and /tftpboot/tuning.cust from the NIM master
- u80 - Installing the ssp.clients feature on the node
- u81 - Installing the ssp.basic feature on the node
- u82 - Installing the ssp.sysctl feature on the node
- u83 - Installing the ssp.sysman feature on the node
- u84 - Installing the ssp.css feature on the node
- u85 - Installing the ssp.jm feature on the node
- u86 - Creating the /etc/firstboot file on the node and running the /tftpboot/tuning.cust script
- u87 - Running the /tftpboot/script.cust script on the node
- u88 - rc.boot has determined that the bootp_response for the node being installed is set to disk, while /etc/bootptab is set for network boot
- u89 - The /usr client adapter field has an invalid value in it
- u90 - Using the bootinfo command to get the boot information and initialize variables for rc.boot
- u91 - Gathering of boot information is complete
- u92 - Determining the boot network information
- u93 - Issuing ifconfig for the boot network
- u94 - The /usr client network is not the boot network. Issuing ifconfig to configure the network to mount /usr

- u95 - Boot network configuration is complete
- u98 - Starting bosmain for maintenance option
- u99 - Invalid bootp_response specified in install_info file

SP node installation LED output:

Time (min:se)	LED Value	Description
0:00	124	BIST started a CRC check on the OCS area of NVRAM.
	151	BIST started AIPGM test code.
	214	Power status register failed.
	219	Generating RAM POST bit map.
	291	Running standard I/O POST.
	200	Attempting IPL with key in secure position.
	102	BIST started following power-on reset.
	153	BIST started ACLST test code.
0:30	154	BIST started AST test code.
	100	BIST completed successfully; control was passed to IPL ROS.
	219	Generating RAM POST bit map.
	292	Running SCSI POST.
1:00	291	Running standard I/O POST.
	262	No keyboard connected to the system.
	260	Displaying information on the display console.
1:30	231	Attempting a normal mode IPL from Ethernet specified in IPL ROM.
2:30	Blank	
	606	Running the if_config command to bring up network interface.
	610	Attempting to NFS mount a remote file system.

	299	IPL ROM passed control to the loaded program code.
	608	Attempting to tftp the .info file from client's SPOT server.
	612	Accessing remote configuration files.
	622	Returning control to the /sbin/rc.boot program.
	520	Running bus configuration.
	890	SCSI-2 differential fast/wide adapter.
	620	Updating special device files.
3:00	890	SCSI-2 differential fast/wide adapter.
	570	Configuring virtual SCSI devices.
3:30	622	Returning control to the /sbin/rc.boot program
4:00	811	Identifying or configuring processor complex.
	Blank	
	570	Configuring virtual SCSI devices.
	727	Identifying or configuring unknown asynchronous device.
	538	The configuration manager is invoking a configuration method.
	622	Returning control to the /sbin/rc.boot program.
	c40	Restoring configuration files.
8:00	c42	Extracting data from diskette.
	c33	Selecting a tty terminal attached to serial ports S1 or S2.
	c44	Initializing installation database with target disk info.
8:30	c46	Normal installation processing.
	Blank	
9:00	c50	Creating root volume group on target disks.

	c46	Normal installation processing.
10:30	c54	Installing either BOS or additional packages.
19:00	c52	Changing from RAM environment to disk environment.
21:30	c46	Normal installation processing.
	570	Configuring virtual SCSI devices.
22:00	c46	Normal installation processing.
	731	Identifying or configuring PTY.
	539	The configuration method has terminated, returning to config.
	811	Identifying or configuring processor complex.
	538	The configuration manager is invoking a configuration method.
	570	Configuring virtual SCSI devices.
22:30	Blank	
23:00	u78	Running rsh to complete node processing on boot/install server.
	u60	Creating /etc/ssp/server_name and updating /etc/hosts.
	u68	Copying kerberos realms file from boot/install server.
	u59	Running config_node to define adapters.
27:00	u65	SSP completing the install/customize/maint. Issuing shutdown.
27:30	c46	Normal installation processing.
28:00	292	Running SCSI POST.
	298	Attempting a software IPL.
	291	Running standard I/O POST.
	299	IPL ROM passed control to the loaded program code.

	Blank	
	890	SCSI-2 differential fast/wide adapter.
	820	
	538	The configuration manager is invoking a configuration method.
	570	Configuring Virtual SCSI devices.
29:00	551	Running IPL varyon.
	517	Mounting client remote file system during network IPL.
29:30	553	IPL phase 1 is complete.
	570	Configuring virtual SCSI devices.
	538	The configuration manager is invoking a configuration method.
	c33	Selecting a tty terminal attached to serial ports S1 or S2.
30:00	Blank	
33:00	83u	Running SSP configuration method for TB2 card.
34:00	570	Configuring virtual SCSI devices.
	538	The configuration manager is invoking a configuration method.
34:30	Blank	

Firmware Checkpoint Codes

Codes	Description	ACTION	ACTION
F00	Manufacturing - Reserved for Parallel port download protocol		
F01	Clear the EPOW register	1. Memory modules 2. system board	
F02	Determine system bus speed, set ISA advisor		
F04	Set memory refresh		
F05	Transfer control to Operating System (normal boot) Action: Try to boot and run standalone diagnostics against the system. particularly against the intended boot device. If the diagnostics are successful, it may be necessary to perform an operating system specific recovery process, or reinstall the operating system.		
F06	Jump to set environment or check flash		
F08	Run recovery block base memory, test 2k, then set stack		
F09	Copy CRC verification code to RAM		
F0A	Turn on cache		
F0B	Flush cache		
F0C	Jump to CRC verification code in RAM		
F0D	Compute composite image CRC		
F0E	Jump back to ROM		
F0F	Turn off cache		
F10	Check if composite image CRC is valid		
F11	Good CRC - jump to composite image		
F12	Bad CRC - initialize base memory, stack		
F13	Bad CRC - copy uncompressed recovery block code to RAM		
F14	Bad CRC - jump to code in RAM		
F15	Bad CRC - turn on cache		
F16	Bad CRC - copy recovery block data section to RAM		
F17	Bad CRC - invalidate and flush cache, set TOC		
F18	Bad CRC - branch to high level recovery control routine		
F19	Initialize base memory, stack		
F1A	Copy uncompressed recovery block code to RAM		
F1B	Jump to code in RAM		
F1C	Turn on cache		
F1D	Copy recovery block data section to RAM		
F1E	Invalidate and flush cache, set TOC		
F1F	Branch to high level control routine		
F20	Initialize system I/O		
F21	Run a console diagnostic routine		
F22	No memory found		
F23	No DIMM found in socket		
F24	Remove bad DIMM found from DIMM information		
F25	Unsupported DIMM detected		
F26	Check valid image - start		
F27	Check valid image - successful		
F28	Wait for interrupt		
F29	Transfers information to the business audio chip		
F2B	Wait until sound chip has been initialized		
F2C	Initialize the current input/pointer device		
F2D	Initialize the current output		
F2E	Register a console driver		
F30	Set up early memory allocation heap, intialize Super I/O		

F31 Determine system bus speed, set ISA driver
 F32 Resync to SP (Console image)
 F33 Set memory refresh
 F35 Jump to set environment
 F40 Initialize interrupt subsystem and 8259s
 F41 SP command setup
 F42 SP mailbox interface
 F43 get_vpd entry
 F44 init_sp entry
 F45 sp_recovery -> resync SP & CPU

 00016000 Error and the following Checkpoint Code

F46 IRQ13 stuck high
 Bad System Board or Service Processor
 F47 Entry to error checking routine-No system board VPD, bad CRC
 Bad System Board
 F48 Power supply or system board problem
 Other 8-digit Codes possible:
 00070010, 40100005
 F49 Voltage problem, system board, power supply or CPU
 5V high/low - bad power supply, CPU card, System Board
 Other 8-digit Codes possible:
 40111022, 40111082
 F4A Voltage problem, system board or power supply
 12V high/low - bad power supply, CPU card, System Board
 Other 8-digit Codes possible:
 40111052, 401110B2, 401110C2, 40111062, 00070010
 F4B CPU over temperature or bad system board
 Other 8-digit Codes possible:
 40200021, 00070009
 F4C start bit-map display function
 F4D Bit-map file read into memory, start processing
 F4E End bit-map display function
 F4F IO/MEM over temperature or bad system board
 Other 8-digit Codes possible:
 40200031, 40200041, 00070008
 F50 Initialize CMOS RTC periodic interrupt
 F51 System board or system over temperature, CPU card Critical Temp.
 Other 8-digit Codes possible:
 40200023, 40200033, 40200043, 00070008, 00070009
 F52 Bad system board (fan fail reported)
 Other 8-digit Codes possible:
 40210011, 40210014
 F53 Bad system board or Fans
 Other 8-digit Codes possible:
 40210011, 40210014
 F54 Fan fail warning
 F55 Bad system board (unsupported EPOW)
 F56 Voltage problem, system board, power supply or CPU
 3.3V/2.5V high/low
 Other 8-digit Codes possible:
 40111032, 40111092, 40111042, 401110A2

 F57 Bad or low battery
 F58 IRQ13 test failure
 F59 EPOW test failure
 F5A Spurious IRQ6 interrupt (i.e. interrupt glitch)
 F5B Fan failure warning
 F5B Transfer control to Operating System (service mode bootlist)
 F5C Clear EPOW register failure

F5D Clear EPOW register failure
F60 Initialize keyboard/mouse controller, and password
F61 Extended memory initialization command
F62 Diskette initialization command
F64 Test of day routine
F6A SCSI initialization command
F70 Initialize debugger
F71 Start checking whether CMOS contents are valid
F72 End checking whether CMOS contents are valid
F73 Dumps contents of CMOS data area to a file
F74 Establishing Host connection
F75 BootP request
F77 Resync to SP (Recovery image)
F79 Dumps contents of NVRAM data area to a file
F7A NVRAM initialization
F7B Check NVRAM validity CRC
F7C Loads contents of CMOS from file
F80 Initialize system call table
F82 Register a manager for use by the system
F88 Halt. System locked by error condition - power off
F90 Initialize VDISK file system
F91 Low-level initialize VDISK file systems
F94 Start SCSI initialization
F96 SCSI bus scan start
F97 SCSI polling interrupt
F98 SCSI device detected
F9E Real Time clock RTC initialization
F9F Exit SCSI initialization
FA0 Start resident monitor, run V:autoexec.6md-initializes various sub-systems-video, keyboard/mouse, extended memory, diskette, SCSI, etc.
FA1 Enter resident monitor
FA2 Resident monitor process
FA3 Resident monitor process
FA4 Exit resident monitor
FA5 ASCII terminal initialization
FA6 ASCII terminal initialization exit
FA9 p9 driver initialization
FAA p9 driver exit
FAB Keyboard driver initialization
FAC Keyboard driver exit
FAD Mouse driver initialization
FAE Mouse driver exit
FB0 Initialize rest of file system
FB1 Diskette initialization
FB2 Diskette drive type determination
FB3 Diskette initialization complete
FC0 Check if flash ROM OK
FCA Build boot table - Networks
FCB Build boot table - DASD
FCC Build boot table - CDROM
FCD Build boot table - diskettes
FCE No operating system boot, exit normal boot sequence
FD0 Start of boot sequence
FD2 No operating system boot - ensure CMOS RTC periodic clock updates displayed
FD4 Initialize console for loading diagnostics
FD8 Exit from diagnostic - run resident monitor
FDA IRQ15
FDB Unexpected processor exception
FDC Dynamic console selection
FDD Early processor exception
FDE Alternating pattern of FDE and FDA indicates a processor exception

has been detected.

FE1	Test timeout	
FE2	Initialize system I/O	
FE4	Initialize super I/O with default values	
FE6	Set up early memory allocation heap	
FE8	Initialize primary diskette drive in polled mode	
FEA	Try to load in recovery image from diskette	
FEB	F30 Verify recovery image is valid	The F40 action plan should also work on the F30. Use the F30 firmware.

F40	Firmware flash corrupted, load from diskette	<p style="text-align: center;">A C T I O N</p> <p>If the system will not boot up fully and the checkpoint display reads "FEB", the firmware is partially corrupted, but should be recoverable. Make a copy of the firmware update diskette, rename the .img file to PRECOVER.IMG and insert this "recovery" diskette in the drive when the FEB appears on the checkpoint display.</p>
-----	--	---

FEC	Get recovery image entry point
FED	Invalidate instruction cache
FEE	Jump to composite image
FF0	Manufacturing - Check fo parallel port hook
FF4	Manufacturing - Start flag not received
FF5	Manufacturing - Invalid start flag received
FF6	Manufacturing - Receive character timeout
FF7	Manufacturing - CRC value mismatch
FFA	Error during flash update
FFC	Operating system boot - no errors reported by IPL ROS
FFD	Operating system boot - non-critical errors reported by IPL ROS
FFE	No boot - critical error(s) reported by IPL ROS -or- F1 key pressed

Post Error Codes

POST ERROR CODES

Error	Description	Actions/Possible FRU's

FIRMWARE ERROR CODES		
00010000	CPU card test error	CPU card
0001000A	Machine Check	Use minimum config MAP
0001500x	Error while erasing system firmware	CPU card
00016000	Use with Fxx Codes	
00016010	System VPD access failure	Sys. Bd., VPD module
00017001	CMOS error	Battery
00017002	CMOS data gone/not initialized	Battery
00017003	Power interruption during boot	Update boot sequence
00017006	Tamper evident detected or battery	
00017007	Maximum login tries	Power on Reset
00017008	Maximum login tries	Power on Reset
00017013	No power on password entered	
00017015	Tamper evident is detected-security	or Bad CMOS Battery
00018000	Bad flash image	CPU card
00020000	Memory test error	
000210y0	Bad memory in slot "y" (1-8)	Bad/unsupported memory
00031100	Keyboard in the wrong port	
00031300	Failed to register keyboard interrupt	Keyboard, System Board
00070000	Service Processor POST failure	Service Proc., Sys. Bd.
00070001	CPU card or power supply failure	
00070006	Slow or stuck fan	Fans, SP, System Board
00070007	System over temperature	
00070008	Environmental condition	Use with Fxx codes
00070009	Environmental condition	Use with Fxx codes
00070010	Environmental condition	Use with Fxx codes
00070011	Environmental condition	Use with Fxx codes
00070012	Service processors fails self test	Serv. Proc., Sys. Bd.
00070013	Bad NVRAM CRC error	Battery, System Board
00070014	Bad service processor firmware	Re-program firmware
00070015	Bad service processor VPD	Serv. Proc., Sys. Bd.
00070016	Bad processor firmware failure	Firmware update, Serv. Proc.
00070017	Bad or low battery	Battery, SP, Sys. Bd.
00070018	EPOW test failure	Serv. Proc., Sys. Bd.
00070019	Interrupt (IRQ13) test failure	Sys. Bd., Serv. Proc

0037cyyi	SCSI controller interface error	
0208cyyi	SCSI device/adaptor error	
0210cyyi	SCSI DASD error	
0211cyyi	SCSI tape error	

0215cyyi SCSI CDDROM error

c=SCSI controller ID assigned in the following order:

1. PCI slot 1
2. PCI slot 2
3. Integrated controller
4. PCI slot 3
5. Continues until last slot...

Example: SCSI card slot 2 = ID 0
 Integrated SCSI = ID 1
 SCSI card slot 3 = ID 2

Example: Integrated SCSI = ID 0
 SCSI card slot 3 = ID 1

yy=POST error status codes

- 08 Invalid device number
- 11 No SCSI card
- 13 Command failed
- 28 Reservation conflict
- 29 Device not available
- 43 Not enough memory
- 47 Waiting for completion
- 49 Sense needed
- 51 Reset needed
- 55 Not ready or no media
- 56 Invalid (unsupported) command
- 57 Write protected
- 59 Media error
- 60 Hardware error
- 61 Unit attention
- 62 Blank check
- 63 Command abort
- 64 Busy
- 65 Media
- 66 Script error
- 67 Invalid address
- 68 Media changed
- 69 Device reset
- 70 Format in progress
- 71 Format corrupted
- 72 Start required
- 73 Device ID conflict
- 74 Manual intervention
- 75 Media not found
- 76 In progress

77 Media eject failed
 78 Write protect failed
 80 SCSI controller interface error
 81 SCSI controller interface error
 82 SCSI bus access error
 83 SCSI fuse bad or PTC tripped
 84 SCSI device command failed
 85 SCSI controller interface error
 86 SCSI controller interface error
 87 Short record length
 88 SCSI bus parity error
 89 SCSI device no reset
 90 Time out error
 99 SCSI controller interface error

i=SCSI ID (0-9 or A-F)

01291000	An error during L2 Cache test	CPU card
0243025y	Graphics controller, DAC failure	Grpahics PCI card slot y

20100xxx	Power Supply	
20A80xxx	Remote IPL error	
20A80000	Insufficient Information to boot	Verify IP address
20A80001	Client IP address already used	Change IP address
20A80002	Cannot get gateway IP address	Refer to Fxx Boot Problems
20A80003	Cannot get server hardware address	Refer to Fxx Boot Problems
20A80004	Bootp failed	See Checkpoint F75
20A80005	File transmission (tftp) failed	Check network connection
20D00xxx	Unknown/Unrecognized device	
20D0000F	Device selftest failure, no SRN	Locate device with SMS
20D00010	Device selftest failure	
20E00000	Power on password entry error	Wrong password entered
20E00001	Privileged-access password entry err.	Wrong password entered
20E00002	Privileged-access password jumper is in wrong jumper position	
20E00003	Power on password must be set for Unattended Mode	
20E00004	Battery needs drained or replaced	Battery, System Board
20E00005	EEPROM locked-Power on reset--or->	Bad System Board
20E00008	CMOS corrupted or tampering evident	Battery, System Board
20E00009	Invalid password entered 3 times	Power on reset, System Bd.
20E0000A	EEPROM lock problem	PAP jumper, System Board
20E0000B	EEPROM write problem	System Board
20E0000C	EEPROM read problem	System Board
20E00017	Cold boot needed for password entry	Power on reset
20EE0xxx	Informational	
20EE0003	IP parameter requires 3 delimiters	000.000.000.000

20EE0004	Invalid IP parameter	
20EE0005	Invalid IP parameter (>255)	255.000.000.000
20EE0006	No SCSI controllers	Adapter, System Board
20EE0007	Keyboard not found	Keyboard, System Board
20EE0008	No adapters found	Adapter, Riser, System Bd.
21A00xxx	SCSI disk drive	Device, cable, controller
21A00001	Test Unit Ready Failed (hardware)	Device, cable, controller
21A00002	Test Unit Ready Failed-sense data	Media, device
21A00003	Send diagnostic failed	Device
21A00004	Send diagnostic failed-DevOf1 cmd	Device
21E00xxx	SCSI tape	
21ED0xxx	SCSI changer	
21EE0xxx	Other SCSI device	
21F00xxx	SCSI CDROM	
21F20xxx	SCSI Read/Write Optical	
25010xxx	Flash	
25010000	No diskette in drive	Looking for firmware image
25010001	Diskette seek error	
25010002	Diskette doesn't contain *.IMG file	Insert firmware update dskt
25010003	Can't open OPENPROM package	System Board
25010004	Can't find OPENPROM node	System Board
25010006	System id's don't match	Use correct firmware dskt
25010007	Image has bad CRC	Replace firmware dskt
25010008	Flash write protected-Power on reset	System Board
25010009	Flash module not supported/recognized	Use correct firmware dskt
2501000A	Flash write protected-Power on reset	System Board
25A0xxy0	L2 Cache - refer to 2B2xxyrr	CPU, System Board
25A80xxx	NVRAM Low Battery, Rebuild Config	
25A80000	Initialization failed	
25A80001	All NVRAM initialized	
25A80002	GE area preserved	
25A80011	Data corruption detected-NVRAM	
25A80012	Data corruption detected	
25A80100	NVRAM data validation check failed	Power On Reset
25AA0xxx	EEPROM	Security jumper, System Bd.
25AA0000	Unable to unlock EEPROM	
25AA0001	Read-Recv error	
25AA0002	Read-Trans error	
25AA0003	Write-enable error	
25AA0004	Write-recv error	
25AA0005	Write-disable error	
25AA0006	Write-Trans error	
25AA0007	Unable to lock EEPROM	

25Cyyxxx Memory

Memory PD

25Cyy001 DIMMS fails memory test Memory DIMM
 25Cyy002 DIMM not supported

yy=Memory DIMM PD bits

```
-----
PD Value      Size      Speed(nsecs)  Parity/ECC      Single/Dual
-----
64            8MB       60            ECC              Single
69            16MB      60            ECC              Single
6B            32MB      60            ECC              Single
6D            64MB      60            ECC              Single
6F            128MB     60            ECC              Single
-----
```

```
28030xxx      RTC (Real Time Clock)      Reset passwords/date/time
28030001      RTC not updating           RTC needs initialized
28030002      Bad date/time             Reset date/time
```

```
29000002      Keyboard/mouse controller failed  System Board
29A00003      Keyboard missing           Keyboard, System Board
29B00004      Mouse missing              Mouse, System Board
```

```
-----
2B200042      Unknown processor type
2B2xxyrr      xx=processor type/speed    21  166Mhz 604+
                                           22  200Mhz 604+
                                           0   Integrated cache or N/A
                                           5   512KB
                                           6   1MB
                                           7   256KB
                                           D   ICBM 1MB
y=Cache information
```

```
2B2xxy22      Bad processor/CPU
2B2xxy31      Disabled due to Asymmetrical MP
```

```
-----
2BA00xxx      Service Processor (SP)
2BA00000      Service Processor POST failure
2BA00001      CPU Card or power supply failure
2BA00006      FAN error incorrectly reported   Fans, Service Proc., Sys Bd.
2BA00007      SP reports over temperature     Fans, System Board
2BA00008      SP reports over temperature     Fans, System Board
2BA00009      CPU over temperature            Fans, CPU, System Board
2BA00010      Fast shutdown pending           Power supply, System Board
2BA00011      SP reports CPU failure           Power supply, System Board
2BA00012      SP reports self-test failure    Service Proc., System Board
2BA00013      SP reports bad NVRAM CRC        Battery, System Board
2BA00014      SP reports bad processor firmware  Rebuild firmware
2BA00015      SP reports bad SP VPD           Service Proc., System Board
2BA00016      SP reports firmware failure     Update firmware, Serv. Proc.
2BA00017      SP reports bad/low battery      Battery, SP, System Board
```

2BA00018	EPOW test failure	Serv. Proc., System Board
2BA00019	IRQ13 test failure	System Board, Serv. Proc.
2BA00020	SP reports VPD access failure	System Board, VPD module
2BA00022	SP reports bad CRC - CMOS/NVRAM	System Board
2BA00023	CPU card test error	CPU card
2BA00100	SP firmware recovery info can't be written to diskette	
2BA00101	Service Processor not installed	
2BA00102	No SP diskette in drive	
2BA00103	SP firmware diskette corrupted	
2BA00104	SP firmware diskette same level	
2BA00200	SP firmware update error	Unplug/Replug-try again
2BA00201	SP firmware update error	
2BA00202	SP firmware update error	
2BA00203	SP firmware update error	
2BA00204	SP firmware update error	

40100005	Loss of system power detected	Power Supply
40111002	Unknown power problem	Power Supply, Sys Bd, SP
40111022	High 5.0 voltage	Power Supply, CPU card
40111032	High 3.3 voltage	CPU card, Power Supply
40111042	High 2.5 voltage	CPU card, Power Supply
40111052	High +12 voltage	Power Supply, Sys. Bd.
40111062	High -12 voltage	Power Supply, Sys. Bd.
40111082	Low 5.0 voltage	Power Supply, CPU card
40111092	Low 3.3 voltage	CPU card, Power Supply
401110A2	Low 2.5 voltage	CPU card, Power Supply
401110B2	Low +12 voltage	Power Supply, Sys. Bd.
401110C2	Low -12 voltage	Power Supply, Sys. Bd.

40200001	Unknown cooling problem	Fans
40200021	CPU temperature warning	
40200023	Critical CPU temperature warning	
40200031	I/O planar temperature warning	
40200033	Critical I/O planar temperature	
40200041	Memory temperature warning	
40200043	Critical memory temperature	
40210011	Slow fan	
40210014	Stopped fan	

40A00000	IPL ROS surveillance interval exceeded-Firmware IPL failure	
40B00000	Operating system surveillance interval exceeded	
40D00003	Unknown slow shutdown commanded	Critical cooling problem
40D00004	Unknown fast shutdown commanded	Locked fan failure

80001200	Bad firmware recovery diskette	Diskette
80001300	Same firmware level already loaded	
80001400	Firmware doesn't support system	
80001500	Firmware update file corrupted	

80001600	Firmware update file not on drive	Verify drive/path/filename
80001700	Firmware file on disk corrupted	Obtain a new file
80001800	Valid firmware file not located	Verify drive/path/filename
80001900	Firmware doesn't support system	
80002000	2 Flash images found	
80002100	Firmware update couldn't be loaded	Verify drive/path/filename
80002200	Firmware update module write-protect	POR, Retry, CPU card
80002300	Utility version not supported	POR, Retry, CPU card
80002400	Firmware module not supported	Flash on CPU card bad
80002500	Firmware module not supported	Flash on CPU card bad
80002600	Firmware module write-protected	POR, Retry, CPU card
80002700	Backup recover diskette needed	Insert diskette
80002800	Update firmware diskette not in drive	Insert diskette
80072000	Service Processor not installed	Install Serv. Processor

91001100	Remote IPL error, insufficient memory	Defective/insufficient mem.
91001200	Remote IPL error - incorrect IP format for client IP address	
91001300	Remote IPL error - incorrect IP format for server IP address	
91001400	Remote IPL error - incorrect IP format for gateway IP address	
91001500	Remote IPL error - incorrect IP format for netmask	
91001600	Remote IPL error - error writing to NVRAM	
91001700	Remote IPL error - ethernet adapter not found	
91001900	Remote IPL error - token-ring adapter not found	
91002000	Remote IPL error - no network adapters recognized	
91002200	Remote IPL error - ping failed	
M0CON000	System hung during POST	Go to minimum config
M0CPU000	CPU POST failed	CPU Card, System Board
M0CPU001	Checkstop occurred	CPU Card, System Board
M0FD0000	System hung during diskette POST	System Board, Diskette Drv.
M0GA0000	Graphics Adapter POST failed	Graphics Adapter
M0HD0000	System hung during POST	Go to minimum config
M0KBD000	System hung during keyboard POST	System board, Keyboard
M0KBD001	System didn't respond to key entry	Type 101 Keyboard
M0KBD002	System didn't respond to key entry	Type 102 Keyboard
M0KBD003	System didn't respond to key entry	Type 106 Keyboard
M0MC0001	Machine Check	Go to minimum config
M0MEM000	No good memory found	Memory, System Board
M0MEM001	No good memory found	Memory, System Board
M0MEM002	System hung during memory POST	Go to minimum config
M0PS0000	Power failure	Go to Power MAP
M0SCSI00	Unable to load diagnostics	Go to minimum config
M0SCSI01	Unable to load diagnostics	Go to minimum config
M0SPK000	Continuous beep is heard	System Board
M0SPK001	The system doesn't beep	Speaker, System Board
M0BT0000	Audio error--Use Fxx Code, if none--	Go to minimum config
M0NET000	Network error--Use Fxx Code, if none--	Go to minimum config

EXXX LCD Codes

E000-E00F SSC initialization
E010 Starting SP self-tests
E011 SP self-tests completed successfully
E012 Begin to set up SP's heap
E01F Bad self-test; can not continue...
E020 Configuring CMOS
E021 Configuring NVRAM
E030 Beginning to build I2C resources
E031 Finished building I2C resources
E032 JTAG self-test
E040 Starting Serial port tests
E041 Configuring a serial port (first time only)
E042 Configuring serial port 1
E043 Configuring serial port 2
E044 Preparing to set serial port line speed
E045 Preparing to disconnect serial port
E060 Preparing to auto power-on (AC restored)
E061 Preparing to auto power-on (Timer)
E070 Configuring modem
E072 Preparing to call home
E075 Entering SP menus

E076 Leaving SP menus; attempting to disconnect modems
E0A0 Beginning Bring-Up Phase
E0B0 Starting CPU BIST
E0BF CPU BIST fail
E0C0 Starting X5 (Cache controller) BIST
E0CF X5 (Cache controller) BIST fail
E0D0 Creating scanlog (takes a while)
E0E0 Pulling CPU(s) out of reset
E0E1 Pulling CPU out of reset: Passed
E0EF Pulling CPU out of reset: Failed
E0FF SP reports bad Service Processor firmware
E100 Reserved/Unused
E101 Video enabled, extended memory test (Quick restart path)
E102 Firmware restart with cfg'd parms (Quick restart path)
E103 Set memory refresh (composite img)
E104 Set memory refresh (recovery block)
E105 Transfer control to O.S. (normal boot)
E108 Run recovery block base memory (test 2k), set stack
E109 Copy CRC verification code to RAM

E10A Turn on cache
E10B Flush cache
E10C Jump to CRC verification code in RAM
E10D Compute composite image CRC
E10E Jump back to ROM
E10F Transfer control to Open Firmware
E110 Turn off cache, Check if composite image CRC is valid
E111 GOOD CRC - jump to composite image
E112 BAD CRC - initialize base memory, stack
E113 BAD CRC - copy uncompressed recovery block code to RAM
E114 BAD CRC - jump to code in RAM
E115 BAD CRC - turn on cache
E116 BAD CRC - copy recovery block data section to RAM
E117 BAD CRC - Invalidate and flush cache, set TOC
E118 BAD CRC - branch to high level recovery control routine
E119 Initialize base memory, stack
E11A Copy uncompressed recovery block code to RAM
E11B Jump to code in RAM
E11C Turn on cache
E11D Copy recovery block data section to RAM
E11E Invalidate and flush cache, set TOC
E11F Branch to high level control routine
E120 Initialize I/O and early memory block
E121 Initialize S.P.
E122 No memory detected (system lockup)
E123 No SIMM found in the socket
E124 Disable defective memory bank
E125 Clear PCI devices command reg, go forth
E126 Check valid image - start
E127 Check valid image- successful
E128 Disable interrupts, set int vectors for O.F.
E129 Validate target RAM address
E12A Copy ROM to RAM, flush cache
E12B Set MP operational parameters (eg. L.E.?, Real?)
E12C Set MP cpu node characteristics
E12D Park secondary processors in parking lot
E12E Primary processor sync
E12F Unexpected return from Open Firmware (system lockup)
E130 Build device tree
E131 Create ROOT node
E132 Create cpus node
E133 Create L2 Cache node
E134 Create memory node

- E135 Create memory SIMM/DIMM node
- E136 Test memory
- E137 Create openprom node
- E138 Create options node
- E139 Create aliases node and system aliases
- E13A Create packages node
- E140 PReP style load
- E149 Create boot mgr node
- E14C Create terminal-emulator node
- E14D Load boot image
- E14E Create Client Interface node/dictionary
- E14F NVRAM validation, config variable token generation
- E150 Create host (primary) pci controller node
- E151 Probe primary pci bus
- E152 Probe for adapter FCODE, evaluate if present
- E153 End adapter FCODE probe/evaluation
- E154 Create pci bridge node
- E155 Probe pci bridge secondary bus
- E156 Create pci ethernet node
- E15A Create 64 bit host (primary) pci controller node
- E15B Transfer control to O.S. (Service mode boot)
- E15C Probe primary 64 bit pci bus
- E15D Create host pci controller node
- E15E Create MPIC node
- E15F Adapter VPD probe
- E160 CPU Node VPD Creation
- E161 ROOT Node VPD Creation
- E162 SP Node VPD Creation
- E164 Create pci graphics node (P9)
- E168 Create pci graphics node (S3)
- E16C GXT1000P Subsystem Open request
- E16D GXT1000P Planar not detected/failed diagnostics
- E16E GXT1000P Subsystem Open successful
- E16F GXT1000P Close Subsystem
- E170 Start of PCI Bus Probe
- E171 Executing PCI-Delay function
- E174 Establish host connection general information concerning network booting.
- E175 BootP request general information concerning network booting.

- E176 TFTP file transfer
- E177 Transfer failure due to TFTP error condition
- E178 Create pci token ring node

E180 SP Command setup
E183 SP Post
E190 Create isa node
E193 Initialize Super I/O
E196 Probe isa bus
E19B Create Service Processor node
E19C Create tablet node
E19D Create nvram node
E19E RTC node creation and initialization
E19F Create eeprom node
E1AD See description of checkpoint E1DE.
E1B0 Create lpt node
E1B1 Create serial node
E1B2 Create audio node
E1B3 Create 8042 node
E1B6 Probe for (ISA) keyboard
E1BA Enable L2 cache
E1BB Set cache parms for burst
E1BC Set cache parms for 512KB
E1BD Probe for (ISA) mouse
E1BE Create op-panel node
E1BF Create pwr-mgmt node
E1C0 Create isa ethernet node
E1C5 Create isa interrupt controller (pic) node
E1C6 Create dma node
E1D0 Create pci scsi node
E1D3 Create (* wildcard *) SCSI block device node (SD)
E1D4 Create (* wildcard *) SCSI byte device node (ST)
E1DB Create floppy controller (fdc)node
E1DC Dynamic console selection
E1DD Early processor exception
E1DE An alternating pattern of E1DE and E1AD is used to indicate a "Default Catch" condition before the Open Firmware "checkpoint" word (function) is available.
E1DF Create diskette drive (disk) node
E1E0 Program flash
E1E1 Flash update complete
E1E2 Initialize System I/O
E1E3 PReP boot image initialization
E1E4 Initialize Super I/O with default values
E1E5 XCOFF boot image initialization
E1E6 Set up early memory allocation heap
E1E7 PE boot image initialization

- E1E8 Initialize primary diskette drive (polled mode)
- E1E9 ELF boot image initialization
- E1EA Load flash EPROM recovery image from diskette
- E1EB Verify flash EPROM recovery image
- E1EC Get recovery image entry point
- E1ED Invalidate instruction cache
- E1EE Jump to composite image
- E1EF Erase flash
- E1F0 Start O.B.E.
- E1F1 Begin selftest sequence on boot device(s)
- E1F2 Power On Password prompt
- E1F3 Priviledged Access Password prompt
- E1F5 Build boot device list
- E1F6 Determine boot device sequence
- E1F7 No boot image located
- E1FB Scan SCSI bus for attached devices
- E1FD Default Catch The operator panel will alternate between the code "E1FD" and another "Exxx" code where "Exxx" is the initialization point at which the error occurred.

- E201 Setup PHB BARC addresses
- E202 Initialize PHB registers and PHB's PCI configuration registers
- E203 Look for PCI to ISA bridge
- E204 Setup ISA bridge PCI config. registers and initialize
- E206 Look for PRISM on PCG and switch to 50MHz
- E207 Setup Data gather mode and 64/32-bit mode on PCG
- E208 Assign bus number on PCG
- E209 Assign PCI I/O addresses on PCI
- E20A Assign PCI I/O addresses on PCG
- E20B Check MCERs stuck at fault
- E20C Testing L2 cache
- E211 IPL ROS CRC checking
- E212 Processor POST
- E213 Initial memory configuration
- E214 Memory test
- E216 Copy ROS into RAM. Setup Translation and C environment
- E220 Final memory configuration
- E299 Start C code execution.

- E3xx Memory test
- E440 Validate nvram, initialize partitions as needed
- E441 Generate /options node nvram configuration variable properties

E442 Validate nvram partitions

E443 Generate nvram configuration variable dictionary words

From /usr/lpp/ssp/inst_root/ssp.css.codepoint

```
set D: E810 - E87F
set E: EB10 - EB5F, EB90 - EBAF
set F: EB00 - EB31
set I: EB10 - EB23
set P: EB10 - EB5A
set R: EB10 - EB5A
set U: EB00 - EB18, EB28 - EB3F
```

SET D

E810 Reserved msg
E811 Software ID String
E812 Reference Data Log(s)
E813 Switch Chip ID
E814 Switch clock value at fault time
E815 Switch Diagnostic Registers
E816 Adapter ID
E817 Adapter Diagnostic Registers
E818 Interrupt Vector
E819 IP
E81A Service Request Number
E81B EDC error type
E81C Interrupt source (ISR or MX CFG3)
E81D PID of process sending SIGTERM
E81E Name of process sending SIGTERM
E81F Reason for resignation
E820 i860 Interrupt Status
E821 POS Register 0 - 7 (tb3 only)
E822 POS Register 30 - 36 (tb3 only)
E823 Failing Address
E824 Access Type
E825 Number of faulty switch components
E826 Number of possible mis-wired cables
E827 Node Number
E828 Slot Number
E829 Jack Number
E82A Chip Number
E82B Port Number
E82C First Error Capture Register
E82D Central Queue Error Register
E82E Service Logic Error Register

- E82F Failure cause**
- E830 Service command**
- E831 Route type**
- E832 Return from routing function**
- E837 Software ID String**
- E838 Error limit**
- E839 Interrupt Status Reg (ISR)**
- E83A Error Status Regs (INT_ERR and INT_ERR2)**
- E83B SLIH type and pointer**
- E83C Error Dependent Data**
- E83D POS Registers 0 - 7 (tb3 only)**
- E83E POS Registers 30 - 36 (tb3 only)**
- E83F Microcode err_rc**
- E840 Bad received data**
- E841 PIO Exception Structure**
- E842 DMA CSR - External Interrupt Only**
- E843 Channel Status Register 15**
- E844 Update value for adapter_config**
- E845 ODM error return value**
- E846 Frame Number**
- E847 Old switch primary node number**
- E848 New switch primary backup node number**
- E849 Old switch primary backup node number**
- E84A Failing node numbers**
- E84B Destination device**
- E850 Current primary backup node number**
- E851 Frame and Node Number(s)**
- E852 Chip and Port Number(s)**
- E853 Process ID**
- E854 Signal Sent**
- E855 POOL NAME**
- E856 CURRENT POOL SIZE**
- E857 /var filesystem percentage full**
- E858 MX Interrupt Status (CFG3)**
- E859 Bus Err (DMA CSR, MX MBA_ER, PCI C/S)**
- E85A MX Miscellaneous Status (CFG2)**
- E85B Port Mask**
- E85C PIO Exception Data**
- E85D EscalateErr (N,1=ThrsMet,2=RecovF,3=1&2)**
- E85E AdaptAction (N,1=Reinit,2=Fence,3=Reset)**
- E85F ErrCause (ISR#:Bit#>Description)**
- E860 ISR1.NBA_LHS_Error_ISR2.NBA_RHS_Status**
- E861 ISR3.MIC_Error_____ISR4.MIC_Status_____**

E862 ISR5.TBIC3_Error___ ISR6.ProtoMicro____
E863 Microcode ErrReturn Bad_Packet_Data____
E864 CSS device driver error
E865 MIC IER val - 6xx_mask
E866 Switch Node Number
E867 Plane Number
E868 Second Error Capture & TOD Registers

SET E

EB10 Switch adapter failed POST diagnostics
EB11 Switch Adapter - Critical SFW Err
EB12 Switch Adapter - Critical HW or MC Err
EB13 Switch Adapter - Critical HW or SFW Err
EB14 Switch Adapter - Permanent HW Err
EB15 Switch Adapter - Permanent MC Err
EB16 Switch Fault Service Daemon Terminated
EB17 Switch Adapter - Permanent SFW Err
EB18 Switch Adapter - Permanent HW or MC Err
EB19 Switch Adapter - Permanent HW or SFW Err
EB1A Switch receiver link sync error
EB1B Switch receiver FIFO overflow error
EB1C Switch receiver token count miscompare
EB1D Switch rcvr EDC errors exceed threshold
EB1E Switch receiver state machine error
EB1F Switch sender parity error on data
EB20 Switch Adapter error detected
EB21 Switch adapter failed On-Line diags
EB22 Switch - Faulty switch component
EB23 Switch - cable mis-wired
EB24 Switch Init-State Machine error occurred
EB25 IP pool buffers memory allocation failed
EB26 Switch Adapter Port - Transient HW Err
EB27 Switch Adapter Port - Permanent HW Err
EB28 Switch Adapter - Transient HW Err
EB29 Switch Adapter - Transient MC Err
EB2A Switch Adapter - Transient SFW Err
EB2B Switch Adapter - Transient HW or MC Err
EB2C Switch Adapter - Transient HW or SFW Err
EB2D Switch Adapter - Critical HW Err
EB2E Switch Adapter - Critical MC Err
EB2F I/O error, switch adapter device driver
EB30 Failed to update ODM during CSS config
EB31 Node fence request received

EB32 Switch primary node takeover
EB33 Switch primary backup node takeover
EB34 Primary backup node not responding
EB35 Nodes not initialized during Estart
EB36 Links not initialized during Estart
EB37 Process killed due to link outage
EB38 IP pool buffers below threshold
EB39 Switch sender token sequence error
EB3A Switch sender invalid route error
EB3B Sender Lost EOP Error
EB3C Sender STI Token Re-Time Request
EB3D Switch sender token count overflow error
EB3E Switch snd token errors exceed threshold
EB3F Switch sender link sync error
EB40 Switch sender state machine error
EB41 Switch central queue parity error - NMLL
EB42 Switch central queue parity error - NCLL
EB43 Switch central queue NCLL uninitialized
EB44 Recvr Route Violation Error
EB45 Recvr STI Data Re-Time Request
EB46 Switch service logic incorrect CRC
EB47 Switch svc logic saw bad packet length
EB48 Switch svc logic bad parity - inFIFO
EB49 Switch svc logic bad parity - route tbl
EB4A Switch svc logic invalid link enable
EB4B Switch svc logic send TOD error
EB4C Switch svc logic state machine error
EB4D Switch adapter interrupt handler error
EB4E Switch adapter hardware/microcode error
EB4F Switch adapter microcode error
EB50 Switch adapter link outage
EB51 Bad packet received
EB52 Switch adapter transient error
EB53 Switch adapter error threshold exceeded
EB54 Switch adapter svc interface overrun
EB55 Switch board hardware error
EB56 Switch (master oscillator) lost clock
EB57 Eclock command issued by user
EB58 Switch (non-master) lost clock
EB59 Error writing switch log files
EB5A Receiver EDC-class error
EB5B Switch daemon initialization failed
EB5C Switch daemon received SIGTERM

EB5D Switch service send queue full
EB5E Switch daemon couldn't get svc request
EB5F Resigning switch primaryship
EB90 Resigning as switch primary backup
EB91 Switch daemon ACK of svc command failed
EB92 Switch daemon SDR communications failed
EB93 Switch adapter i/f system call failed
EB94 Switch scan failed
EB95 Switch node miswired
EB96 Switch daemon failed to generate routes
EB97 Fence of node failed
EB98 Switch daemon reopen windows failed
EB99 Estart failedbr> **EB9A** Switch daemon couldn't reset IP
EB9B Switch daemon command broadcast failed
EB9C Switch daemon DBupdate broadcast failed
EB9D Switch daemon dependent node svc failure
EB9E Switch Adapter User Access Error
EB9F Switch port can not be disabled
EBA0 Switch Topology file distribution failed
EBA1 Parity Error on Free Space LL
EBA2 Source Routed Multicast ECC Error
EBA3 Multicast Source Routed Decode Tbl PE
EBA4 Multicast Lookup Tbl Route Decoder PE
EBA5 Repeat Count Array PE
EBA6 Multicast Route Error
EBA7 Chip ID Error
EBA8 Service Array Overflow Latch
EBA9 PE on input to Service Array
EBAA PE on output to Service Array
EBAB Invalid Service Command error
EBAC Error occurred in TOD logic
EBAD A Sender Hang was detected
EBAE A Token Counter Error
EBAF Receiver TOD ECC Error
EBB0 Master Switch Sequencer error
EBB1 Switch Configuration error
EBB2 Switch Node Configuration error
EBB3 Switch - cable plane mis-wired
EBB4 CSS config failed
EBB5 Adapter critical error recovery started

SET F

EB00 Switch adapter hardware

- EB01 Switch adapter or switch**
- EB02 Adapter memory**
- EB03 Switch cable faulty**
- EB04 Switch cable or switch**
- EB05 Switch board**
- EB06 Switch chip error**
- EB07 Switch adapter microcode error**
- EB08 Switch daemon software error**
- EB09 Switch daemon work request queue overrun**
- EB0A Switch network data backlog**
- EB0B Switch communications failure**
- EB0C System service error**
- EB0D Switch kernel extension error**
- EB0E Excessive ethernet traffic**
- EB0F SDR daemon not running**
- EB10 Switch adapter configuration**
- EB11 Windows not previously opened**
- EB12 Local or remote node off switch**
- EB13 Switch network needs reset**
- EB14 Invalid switch adapter access by an application**
- EB15 Remote switch adapter or microcode failure**
- EB16 Switch adapter microcode**
- EB17 Switch adapter software**
- EB18 Switch adapter hardware/microcode**
- EB19 Switch adapter hardware/software**

SET P

- EB10 Reserved msg**
- EB11 Switch adapter failure**
- EB12 Switch was restarted at user request**
- EB13 A node on the switch was reset**
- EB14 Switch data or clock cable disconnected**
- EB15 Switch clock signal missing**
- EB16 A node or a switch board lost power**
- EB17 Transient error in the switch network**
- EB18 Switch adapter or switch failure**
- EB19 Switch cable mis-wired**
- EB1A Switch cable or switch failure**
- EB1B Requested by administrator**
- EB1C User Error**
- EB1D Remote Fault Service Daemon not running**
- EB1E Software Error**
- EB1F Cable or Connector Problem**

- EB20 Run adapter diagnostics**
- EB21 Switch primary node became inaccessible**
- EB22 Primary backup node became inaccessible**
- EB23 Switch board failure**
- EB24 A node on the switch was shutdown**
- EB25 Not enough pool buffers for workload**
- EB26 /var filesystem is full**
- EB27 Too many files open in system**
- EB28 Remote switch adapter failure**
- EB29 Loose, disconnected or bad switch cable**
- EB2A A node went offline or was disconnected**
- EB2B Operator action**
- EB2C Switch adapter hardware/microcode error**
- EB2D Couldn't establish operating environment**
- EB2E Another process sent a SIGTERM**
- EB2F Traffic backlog on switch adapter**
- EB30 Switch kernel extension error**
- EB31 Couldn't communicate over switch**
- EB32 Another node selected as primary**
- EB33 Another node selected as primary backup**
- EB34 Ethernet overloaded**
- EB35 Excessive SDR traffic**
- EB36 SDR daemon or control workstation down**
- EB37 Couldn't communicate with switch adapter**
- EB38 Invalid switch adapter access by a user**
- EB39 Not enough kernel heap memory**
- EB3A Switch adapter hardware**
- EB3B Switch adapter or switch**
- EB3C Switch adapter microcode**
- EB3D Switch adapter software**
- EB3E Switch adapter hardware/microcode**
- EB3F Switch adapter hardware/software**
- EB40 Excessive SDR traffic or SDR daemon down**
- EB41 Node not configured properly**

SET R

- EB10 Run adapter diagnostics**
- EB11 See /var/adm/SPlogs/css/daemon.stdout for more information**
- EB12 Check / reconnect / replace cable if problem persists**
- EB13 Replace switch cable from a powered-off node with a wrap plug**
- EB14 Use Detail Data to see /var/adm/SPlogs/css/p/out.top for cable information**
- EB15 Use Detail Data to see /var/adm/SPlogs/css/p/cable_miswire for possible miswired cables**
- EB16 Use Detail Data to see /var/adm/SPlogs/css/p/fs_daemon_print.file for more information**

- EB17 Rerun the Eunfence command after the daemon is running**
- EB18 Select a node that is on the switch and not currently fenced**
- EB19 Select a node that is currently fenced**
- EB1A See Diagnosis and Messages Guide for additional information**
- EB1B Call hardware service if problem persists**
- EB1C Call software service if problem persists**
- EB1D Call hardware service**
- EB1E Call software service**
- EB1F Use Detail Data to see /var/adm/SPlogs/css/p/flt for more information**
- EB20 Run config method with verbose option for more information"**
- EB21 Use Detail Data to see /var/adm/SPlogs/css/p/fs_daemon_print.file on switch primary backup node**
- EB22 See the error log on the old switch primary node**
- EB23 See the error log on the old switch primary backup node**
- EB24 See the error log on the current switch primary backup node**
- EB25 See neighboring error log entries for the cause of the outage**
- EB26 Replace failing switch board**
- EB27 Pool tuning required**
- EB28 Issue the Eclock -a command to establish new switch network clocking**
- EB29 Issue the Estart command to initialize switch network**
- EB2A Execute Eunfence to bring node on switch**
- EB2B Wait for node to rejoin switch**
- EB2C Correct problem and restart daemon**
- EB2D Run rc.switch to restart switch daemon**
- EB2E Check switch adapter configuration**
- EB2F Issue the Estart command if primary takeover doesn't occur**
- EB30 Issue the Eclock -s xx -m yy command to re-establish clocking**
- EB31 Obtain free space in filesystem or expand filesystem**
- EB32 Reduce number of open files**
- EB33 See /var/adm/SPlogs/css/daemon.stderr for more information**
- EB34 See the error log on the failing nodes**
- EB35 Issue Eclock -d to reset switch network and reestablish switch clocking**
- EB36 Check if SDR daemon is up**
- EB37 Use Detail Data to see /var/adm/SPlogs/css/p/flt on the primary node for more information**
- EB38 Identify the offending user process**
- EB39 Run adapter diagnostics on failing node**
- EB3A Use Detail Data to see /var/adm/SPlogs/css/p/dist_topology.log**
- EB3B Call software service - performance may be affected**
- EB3C Check / reconnect / replace cable / unfence**
- EB3D Run adapter diagnostics if problem persists**
- EB3E Check Ethernet connection between the CWS and the MSS node**
- EB3F Run rc.switch on all the nodes with valid TOD**
- EB40 For reconfiguring the switch board run: hmcmds -G setid :**

EB41 Reconfigure or disconnect the offending node**SET U****EB00 Operator entered Estart command****EB01 Switch cable loose or disconnected****EB02 Node rebooted****EB03 Node powered off****EB04 Switch cable mis-wired****EB05 Switch cable unseated****EB06 Operator attempted to unfence a node before its daemon was running****EB07 Operator attempted to fence a node that is currently fenced****EB08 Operator attempted to fence a node that is not in the switch topology****EB09 Operator attempted to unfence a node that is not currently fenced****EB0A Operator attempted to fence a node that is not currently on the switch****EB0B Operator requested nodes to be unfenced****EB0C Operator executed Efence command****EB0D Operator fenced this node****EB0E Operator ran rc.switch on node and switch daemon was restarted****EB0F Clocking not established (Eclock not run)****EB10 Operator ran Eclock****EB11 User program sent SIGTERM****EB12 Operator selected another node as primary****EB13 Operator selected another node as primary backup****EB14 Node ODM configuration wrong****EB27 Information Only****EB28 ODM error****EB29 Switch primary node was reset, powered-down or disconnected****EB30 Switch primary backup node was reset, powered-down or disconnected****EB31 None****EB32 A node was shutdown, reset, powered-off or disconnected****EB33 /var filesystem is full****EB34 Too many files open in system****EB35 The MSS node or the CWS Ethernet cable was disconnected****EB36 SP Switch configuration problem**

7024

Error Code	Description	Action/ Possible Failing FRU
00010000	An error occurred during the Processor Card.	CPU Card
0001000A	Machine Check occurred	Go to MAP 1540
0001500x	An error occurred while erasing the system firmware. Firmware update was not completed.	CPU Card
00016000	Bad CRC error - CMOS/NVRAM	System Board swap old VPD module onto new System Board.
0001600x	CMOS locked when attempting to - enable/disable unattended mode or back on Tu - set/reset Supervisor/Privilege-Access password or - set/reset Power-On password	Turn machine power off and back on
00016010		1. System Board Swap old VPD module to new System Board

I Will add the rest when I have a minute

Crash Codes

Reading the Type 102 Message

A 102 message is generated when a software or hardware error occurs during system execution of an application. Use the following steps and information to determine the content of the Type 102 message. Crash and dump status codes are listed on the following page.

102 = Message type RRR = Crash code SSS = Dump status code

The following crash codes are part of a Type 102 message.

000 Unexpected system interrupt.
200 Machine check because of a memory bus error.
201 Machine check because of a memory timeout.
202 Machine check because of a memory card failure.
203 Machine check because of a out of range address.
204 Machine check because of an attempt to write to ROS.
205 Machine check because of an uncorrectable address parity.
206 Machine check because of an uncorrectable ECC error.
207 Machine check because of an unidentified error.
208 Machine check due to an L2 uncorrectable ECC.
300 Data storage interrupt from the processor.
32x Data storage interrupt because of an I/O exception from IOCC.
38x Data storage interrupt because of an I/O exception from SLA.
400 Instruction storage interrupt.
500 External interrupt because of a scrub memory bus error.
501 External interrupt because of an unidentified error.
51x External interrupt because of a DMA memory bus error.
52x External interrupt because of an IOCC channel check.
53x External interrupt from an IOCC bus timeout; x represents the IOCC number.
54x External interrupt because of an IOCC keyboard check.
558 There is not enough memory to continue the IPL.
600 Portability Assist Layer (PAL) has detected a problem.
700 Program interrupt.
800 Floating point is not available.

Reading the Type 103 Message

A Type 103 message is generated when a hardware error is detected. Use the following steps and information to determine the content of the Type 103 message. (You may have come here from a Type 102 message. If so, use the same procedure).

1. Press the Reset button and record the first three digits of the six-digit SRN.
 Note: The 9333 machine type displays four-digit SRNs that are not listed in this book. To decode these SRNs, refer to 9333 documentation.
2. Press the Reset button and record the next three digits of the SRN.
3. Each time the Reset button is pressed, three digits of a FRU location code display. When all FRU location codes are read out, the operator panel display returns to the flashing 888 or, if another message is waiting to be displayed, a ccc. If a ccc is displayed, repeat this step to receive the next message. Try the first SRN listed; if it does not resolve the problem, try following SRNs in the order listed. If the message contains more than four FRUs, not all FRU location codes will be present.

Press the Reset button and record the three-digit numbers until a flashing 888 displays. Use the following to identify the numbers being read.

103 = Message type
 XXX-XXX = SRN

c01 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = First FRU location code

c02 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Second FRU location code

c03 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Third FRU location code

c04 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Fourth FRU location code

4. Identify the SRN. You can cycle through the numbers again by pressing the Reset button.
5. The FRU location codes translate into an eight-digit location code (AB-CD-EF-GH). Each digit of the eight-digit location code is presented as a three-digit number in the operator panel display.

A B C D E F G H = Eight-digit location code

c01 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = First FRU location code

c02 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Second FRU location code

c03 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Third FRU location code

c04 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Fourth FRU location code

Note: If a ccx (x can be any digit from 2 through 9) is encountered as part of the location code, only the part of the code that is different from the location code of the previous FRU is shown. To form the complete location code of the next FRU, substitute the information following the ccx into the location code of the previous FRU.

For example, if the previous FRU location is:

c01 100 200 300 401 500 601 700 800,

and the next FRU location is listed as:

cc2 602,

the complete location code of the next FRU is:

cc2 100 200 300 401 500 602 700 800.

To identify each digit of the location code (AB-CD-EF-GH), translate the right-most two digits using the following table. See "Location Codes" in this chapter to determine the physical location of the resource.

xx Value	xx Value	xx Value	xx Value
00 = 0	11=A	21=K	31=U
01 = 1	12=B	22=L	32=V
02 = 2	13=C	23=M	33=W
03 = 3	14=D	24=N	34=X
04 = 4	15=E	25=O	35=Y
05 = 5	16=F	26=P	36=Z
06 = 6	17=G	27=Q	
07 = 7	18=H	28=R	
08 = 8	19=I	29=S	

09 = 9 20=J 30=T

6. The only way to recover from an 888 type of halt is to power the system unit Off. Return to the MAP step that directed you here.

105 XXXX SRN being displayed, XXXX is the SRN.

105 = Message type

1xx 2xx 3xx 4xx = encoded SRN

c01 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = First FRU location code

c02 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Second FRU location code

c03 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Third FRU location code

c04 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Fourth FRU location code

1. Determine the SRN by translating the rightmost two digits of each position within the encoded SRN (1xx 2xx 3xx 4xx) using the table at the end of the following substep. You can cycle through the numbers again by pressing the Reset button.
2. The FRU location codes translate into an eight-digit location code (AB-CD-EF-GH). Each digit of the eight-digit location code is presented as a three-digit number in the operator panel display.

A B C D E F G H = Eight-digit location code

c01 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = First FRU location code

c02 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Second FRU location code

c03 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Third FRU location code

c04 1xx 2xx 3xx 4xx 5xx 6xx 7xx 8xx = Fourth FRU location code

Note: If a ccx (x can be any digit from 2 through 9) is encountered as part of the location code, only the part of the code that is different from the location code of the previous FRU is shown. To form the complete location code of the next FRU, substitute the information following the ccx into the location code of the previous FRU.

For example, if the previous FRU location is:

c01 100 200 300 401 500 601 700 800,

and the next FRU location is listed as:

cc2 602,

the complete location code of the next FRU is:

cc2 100 200 300 401 500 602 700 800.

To identify each digit of the location code (AB-CD-EF-GH), translate the right-most two digits using the following table. See "Location Codes" in this chapter to determine the physical location of the resource.

xx Value	xx Value	xx Value	xx Value
00 = 0	11=A	21=K	31=U
01 = 1	12=B	22=L	32=V
02 = 2	13=C	23=M	33=W
03 = 3	14=D	24=N	34=X
04 = 4	15=E	25=O	35=Y
05 = 5	16=F	26=P	36=Z
06 = 6	17=G	27=Q	
07 = 7	18=H	28=R	
08 = 8	19=I	29=S	
09 = 9	20=J	30=T	

3. The only way to recover from an 888 type of halt is to power the system unit Off. Return to the MAP step that directed you here.

Machine Type (M/T)

Machines:

7006-41T/41W PowerPC 601 Base Station - Rainbow4

7007-N40 RS/6000 Laptop

7008-M20 Cabeza

7009-C10 Compact Server - Rainbow5

7010 X-station 120/130/140/150

7010-130 Ketchum

7011-220 Salmon

7011-230 Chaparral

7012-23E 22x Converted to 230

7011-250 Rainbow

7011-250 Rainbow

7011-25E 220/230 Converted to 250

7011-25S

7011-25T

7011-25W

7012-G40 Bodensee 604e

7012-320 Llano

7012-32E 320 to 32H

7012-32H Boiling

7012-340 Stilwell

7012-350 Talley

7012-355 Yaqui

7012-355 Cayuga

7012-365 Owasco

7012-370 Dumpling

7012-380 Piegan

7012-390 Pinosa

7012-39H Huron

7012-G30

7012-390 CPU Card - Pinosa

7030-3BT CPU Card - Yakima

7013-520 Aransas

7013-52H Pikes

7013-530 Wichita

7013-53H Wildhorse
7013-540 Navasota
7013-550 Tule
7013-570 Candy
7013-57F 52x/53x/55L Converted to 570
7013-580 Spicebush
 58F 52x/53x/55x/56X/570 Converted to 580
 58H 570 Converted to 58H
7013-590 Hawthorn
7013-591 Nylon
7013-59H Navajo
7013-J30

7015 RS/6000 POWERserver
7015-930 Lampasas
7015-970 Sacasil
7015-980 Bisnaga
7015-930 Lampasas
7015-970 Sacasil
7015-97F 930/95x/95E Converted to 97B
7015-980 Bisnaga
7015-98E is 970/97E converted to 980
7015-98F is 930/95E/97B/97F converted to 97B
7015-99F is 930/95E/97F/98F converted to 990
7015-99E is 970/97E/980/98E converted to 990
7015-R10/R20/R24 Modular CPU Drawer
7015-R20 Dallam
7015-R21 Nolan
7015-R24 Silverbell
7015-R30 Panola
7016 RS/6000 POWERstation 730
7017-S7A - Blackbird
7017-S80 - Condor H99
7018 RS/6000 System Unit
7020-40P PowerPC Sandalbow
7024-E20 601 Lightning
7024-E30 604
7025-F30 Thunderbolt
7025-F80 Condor LE
7025-6F1 Condor LE+
7025-6H1 Condor M1+
7026-H80 Condor M1
7026-M80 Condor M2
7026-6M1 Condor M2+

7027 Media Drawer - Portmadog
7028-6C1 - Colt Drawer
7028-6E1 - Colt Deskside
7030-3AT - Yankton
7030-3BT - Yakima
7038-6M2 Regatta MI
7039-651 Regatta H
7043-140 - Tiger
7043-150 - Tiger-2
7043-240 - Doral
7043-260 - Sphinx
7044-170 Hammerhead 2

7044-270 Sphinx
7046-B50 - Pizzazz
7051 POWER Network NFS Dataserver for large amount of data.

0840-001 Exabyte EXB-10e 8mm Tape Cartridge Handling Subsystem
1091-051 Model 051 Color Monitor for X-Station 130
2380-001 Personnal Printer Series II
2381-001 Personnal Printer Series II
2390-001 Personnal Printer Series II
2391-001 Personnal Printer Series II
2380 Plus Printer II
2381 Plus Printer II
2390 Plus Printer II
2391 Plus Printer II
3151 Display Terminal
3161 Display Terminal
3163 Display Terminal
3164 Display Terminal
3490-E01 1/2 Inch Tape Drive
3490-E11 1/2 Inch Tape Drive
3490-C11/C12 1/2 Inch Tape Drive
3490-AXX/BXX 1/2 Inch Tape Drive
3494-L10 Tape Library DataServer
EXB-10e 8mm Tape Drive
3494-L20 Tape Library DataServer
3514-212 Disk Array RAID Level 5 1gb disks
3514-213 Disk Array RAID Level 5 2gb disks
3812-002 Pageprinter
3816-01S Pageprinter
3816-01D Pageprinter

3825 Advanced Function Printer
3827 Advanced Function Printer
3829 Advanced Function Printer
3831 Page Printer
3835-001 Advanced Function Printer
3835-002 Advanced Function Printer
3852 Printer
3900 Advanced Function Printer
3916-AS0 Page Printer
3916-AS1 Page Printer
3916-NS0 Page Printer
3916-NS1 Page Printer
3930-02D Page Printer
3930-02S Page Printer
3930-03S Page Printer
3995-063 Optical Library Dataserver 40GB
3995-163 Optical Library Dataserver 188GB
4019-001 Laser Printer
4019-E01 Laser Printer
4029-010 Laser Printer 5E
4029-020 Laser Printer 6
4029-022 Laser Printer 6P
4029-030 Laser Printer 10
4029-040 Laser Printer 10L
4029-042 Laser Printer 10P
4033-001 Token-Ring IEEE 802.5 LAN Connection for Printers & Plotters
4033-002 Ethernet 10BaseT IEEE 802.3 LAN Connection for Printers &
Plotters
4033-003 Ethernet 10Base2 and 10Base5 IEEE 802.3 LAN Connection for
Printers
& Plotters
4037 5E Page Printer
4039-10R LaserPrinter
4039-10D LaserPrinter
4070-001 IJ Printer
4070-002 IJ Printer
4072-001 ExecJet Printer
4076 ExecJet II Printer
4079-001 Color Jetprinter PS
4201-002 Proprinter II (Replaced by 2380-001)
4201-003 Proprinter III (Replaced by 2380-001)
4202-002 Proprinter II XL (Replaced by 2381-001)
4202-003 Proprinter III XL (Replaced by 2381-001)
4207-002 Proprinter X24E (Replaced by 2390-001)

4208-002 Proprinter XL24E (Replaced by 2391-001)
4212-001 Proprinter 24P
4216-031 Personal Pageprinter II (Replaced by 4019)
4224-xxx Serial Printer (mod xxx=301, 302, 3c2 and 3E3)
4226-302 Printer
4234-009 Line Dot Matrix Printer
4234-013 Line Dot Matrix Printer
4755-005 TSS Cryptographic Adapter
4869-002 5.25-Inch External Diskette Drive
5081 Color display
5083 Tablet
5084-001 Digitizer (609 mm x 914 mm / 24" x 36")
5084-002 Digitizer (914 mm x 1219 mm / 36" x 48")
5084-003 Digitizer (1117 mm x 1524 mm / 44" x 60")
5085 & 5086 Graphics Processor
5088 Communication Controller
5202, 5204 Quietwriter Printer
5327 Printer
5566 Color Display
5572 Printer
5575 Printer B02,F02,H02 Serial Dot Matrix Kanji Printer
5577 Printer B02,F02,H02 Serial Dot Matrix Kanji Printer
5587 Printer
5822 Modem
5841 Modem
5853 Modem
6184
6186 Color Plotter
6091-016 16" Color Display 1280 X 1024
6091-019 19" Color Display 1280 X 1024
6091-023 23" Color Display 1280 X 1024
6093-011 Cursor Pad
6093-012 Tablet
6094-010 Dial
6094-020 Lighted Program Function Keyboard
6094-030 Spaceball 3-D Input Device
6180 Color Plotter
6182 Auto-Feed Color Plotter
6184 Color Plotter
6185-001 Color Plotter
6185-002 Color Plotter
6187 Color Plotter
6252-AP2 Impactwriter Printer
6252-AP8 Impactwriter Printer

6252-AS2 Impactwriter Printer
6252-AS8 Impactwriter Printer
6262-A12 Impact Line Printer
6262-A14 Impact Line Printer
6262-A22 Impact Line Printer
6317 Color Display
6324 Color Display
6325 Color Display
6327 Color Display
6408 Line Matrix Printer
6555-703 P200 Monitor - Pluto

7134-010 High Density SCSI Disk Subsystem - Saracen

7135-010 RAIDiant Array - Allthorn

7135-110 RAIDiant Array - Allthorn

7202 Expansion Rack model 9XX

7203-001 External Portable disk drive 355/670MB

7204-001 External Disk Drive Model 1GB

7204-010 External Disk Drive Model 1GB (Lower Price/Perf over 7204-001)

7204-215 External Disk Drive Model 2GB For Differential SCSI Adapter 8-bit

7204-315 External Disk Drive Model 2GB for Fast/Wide Diff SCSI Adapter
Double transfer rate of 7204-215 (20MB/sec vs 10MB/sec

7204-320 External Disk Drive Model 320 (with a 320mb disk)

7206-001 2/4GB External 4mm Tape Drive (Sonata)

7206-005 4/8GB External 4mm Tape Drive

7207-001 150MB External 1/4-Inch Cartridge Tape Drive. (Luge)

7207-011 525MB External 1/4-Inch Cartridge Tape Drive. (Tundra)

7207-012 1.2GB External 1/4-Inch Cartridge Tape Drive. (Tundra II)

7207-315 13GB External 1/4-Inch Cartridge Tape Drive. (Fjord)

7208-001 2.3GB External 8mm Tape Drive

7208-011 5.0GB External 8mm Tape Drive (Snowbird)

7209-001 Optical Disk Drive

7210-001 External CD-ROM Drive

7210-005 External CD-ROM Drive

7235-001 POWER Gto 8bit Graph Subsystem

7235-002 POWER Gto 24bit Graph Subsystem - Taurus

7237-001/002/003 Freedom Series

7248-43P Carolina

7250-001 POWER GXT1000

7250-002 POWER GXT1000 - Ruby

7311-D10 Sundance (drawer)

7311-D20 Reliance (drawer)

7372 Color Plotter

7820 ISDN Terminal Adapter
7855 Modem
7861 Modem
7868 Modem - Rack-mounted version of the 7861
8209 LAN Bridge (Attached Token-Ring network to Ethernet LAN)
8504-001 Monochrome Display
8507-001 19" Monochrome Display 1024x768 (POWER Gt1 only)
8508-001 19" Monochrome Display 1280 X 1024
8511-001 Color Display
8512-001 Color Display
8513-001 Color Display
8514-001 14" Color 1024 X 768
8515-021 14" Color 1024 X 768
8517-001 17" Color 1280 X 1024
8518-001 Color Display
9076 Scalable POWERparallel System
9333-010 Drawer High Performance Subsystem Using High Perf Subsystem
Adapter
9333-011 Drawer High Performance Subsystem Using High Perf Subsystem
Adapter
9333-500 Deskside High Performance Subsystem Using High Perf Subsystem
Adapter
9333-501 Deskside High Performance Subsystem Using High Perf Subsystem
Adapter
9334-010 Drawer Disk Expansion Unit using SCSI Adapter.
9334-011 Differential Drawer SCSI Expansion Unit
9334-500 Disk Expansion Unit using SCSI Adapter.
9334-501 Differential Tower SCSI Expansion Unit.
9348-012 External 1/2" 9-track Tape Drive
9524 Color Display

Devices

=====

600MB 2X Tray - Bandera
32X CD-ROM - Brighton
1080MB SCSI Disk Drive - Pegasus
2GB SCSI Disk Drive - Orion
4.7GB SCSI-2 Auto-Docking DVD-RAM Drive - Nez Percé
48X SCSI-2 Internal Auto-Docking CD-ROM Drive Brighton-2
16X/48X IDE DVD-ROM Drive Zapata
80/160GB Internal Auto-Docking Tape Drive VXA - Jesse James

Adapters:

=====

A-B #2946 PCI Turboways 622 MMF ATM Adapter - Big Ben
4-K #6206 PCI SE Ultra-SCSI Adapter- Ultra Bloomer
4-Port ISA - Gale
4-Port MCA - Typhoon
4-T #2494 3-Channel Ultra SCSI RAID Adapter - Clarinet
#2823 GXT2000P Graphics - Mirage
#2962 PCI 2-Port Multiprotocol - Hermosa
#6225 Advanced Serial RAID Adapter - Santa Cruz
#6227 Gigabit Fiber Channel Adapter - Flipper
#6228 Gigabit Fiber Channel Adapter - Flipper 64
GXT150M - Neptune
GXT155L - Baby Blue
MCA Enhanced SCSI-2 F/W - Corvette Turbo
MCA Token-Ring - Wildwood
MCA SSA Adapter #6214 - Mayflower
GXT1000
FCS - Star
S15 /H10 Graphics - Glacier
Fiber Channel/266 Meteor
Ultimedia Video I/O Adapter - Sunrise
Network Terminal Accelerator 256 - Bitternut
PCI SCSI RAID adapter - Copperhead
PCI 16-bit SCSI - Bloomers
PCI Ethernet - Klickitat
PCI Token-Ring - Skyline
4mm Auto Loader Tape Drive = Hidalgo
MCA Low Cost Ethernet Adapter - Durandoak
ISA 8-Port - Creek
ISA 8-Port low cost EIA-232/RS-422A - San Gabriel
ISA X.25 - Cyclone
ISA 128-Port - Frio

Machine Types

Machine
Type

Description

3151 Display Terminal
3161 Display Terminal
3163 Display Terminal
3514 External Disk Array, Models 212 and 213
3812 Pageprinter
3852 Printer

4201 Proprinter II
4202 Proprinter XL
4207 Proprinter X24
4208 Proprinter XL24
4216 Personal Pageprinter
4224 Printer
4234 Printer
4869 5.25-Inch External Diskette Drive

5081 Color Display
5083 Tablet
5085 Graphics Processor
5086 Graphics Processor
5088 Communications Controller
5202 Quietwriter Printer
5204 Quickwriter Printer

6094 Model 10, Dials
6094 Model 20, Lighted Program Function Keyboard (LPFK)
6094 Model 30, Spaceball™

7006 System Unit (table top)
7008 System Unit (table top)
7009 System Unit (floor standing)
7011 System Unit (table top)
7012 System Unit (table top)
7013 System Unit (narrow floor standing)
7013 J Series System Unit (floor standing)
7015 System Unit (rack mounted)
7016 System Unit (wide floor standing)
7018 System Unit (floor standing)
7027 Disk Drive Drawer
7030 System Unit (table top)
7134 High Density SCSI Disk Subsystem, Model 010

7135 RAIDiant Array SCSI Disk Drive Subsystem, Models 010 and 110
7203 External Portable Disk Drive
7204 External Disk Drive Model 320
7206 2.0 GB or 4.0 GB External 4 mm Tape Drive
7207 150 MB, 525 MB or 1.2 GB External 1/4-Inch Cartridge Tape Drive
7208 2.3 GB or 5.0 GB External 8mm Tape Drive
7210 External CD-ROM Drive
7235 POWERgraphics GTO graphics subsystem
7250 POWERgraphics Accelerator

8508 Monochrome Display
9333 High-Performance Disk Drive Subsystem Models 010 and 011
9333 High-Performance Disk Drive Subsystem Models 500 and 501
9334 SCSI Expansion Unit Model 010 (Single-Ended), Model 011
(Differential)
9334 SCSI Expansion Unit Model 500 (Single-Ended), Model 501
(Differential)
9348 1/2-Inch 9-Track Tape Drive

Updated: July 2003 BJ Croft

MACHINE TYPE M/T - CODE NAMES - MODELS SEARCH

Enter M/T, model or code name

To perform a search, select

Section 1 - SPEC95 and LINPACK PERFORMANCE

Workstations

Model	Proc	MHz	L1	L2	SPECint95	SPECint_base95	SPECfp95
SPECfp_base95	LINPACK	LINPACK	LINPACK				
Cache			Cache		DP	SP	TPP
			(KB)	(MB)			
25T	601	66	32	0	1.82	1.69	
2.32	2.23	12.7	19.5	33.9			
25T	601	80	32	0	--	2.03	
--	2.58	15.1	21.8	40.5			
41T	601	80	32	0	--	2.03	
--	2.58	15.1	21.8	40.5			
41T	601	80	32	0.5	--	--	
--	--	20.1	24.9	41.9			
42W/T	604	120	16/16	0	3.21	2.93	
2.74	2.57	--	26.9	42.3			
42W/T	604	120	16/16	0.5	4.01	3.75	
3.53	3.37	22.4	39.7	60.9			
43P-100	604	100	16/16	0.25	3.59	3.36	
3.20	3.04	--	27.9	56.4			
43P-120	604	120	16/16	0.5	4.24	4.01	
3.41	3.23	25.5	48.2	61.0			
43P-132	604	133	16/16	0.5	4.72	4.55	
3.76	3.59	27.8	51.7	67.5			
43P-140	604e	166/	32/32	0.5/1	6.19/7.2	5.8/6.9	
4.8/5.2	4.6/5.1	22/21.9	66/71	125/145			
		200					
43P-140	604e	233	32/32	1.0	8.66	7.77	
5.63	5.30	22.6	77.1	156			
upgrade							
43P-140new	604e	233	32/32	1.0	9.24	8.29	
5.75	5.48	56.0	113.3	156			
43P-140	604e	332	32/32	1.0	12.90	12.20	
6.21	5.99	59.9	123.6	179			
43P-150	604e	375	32/32	1.0	15.1	14.5	
10.1	9.85	64.8	151.2	255.7			
44P-170	630+	333	32/64	1.0	19.8	18.6	
35.6	34.0	-	-	-			
44P-170	630+	400	32/64	4.0	25.3	23.5	
47.9	46.0	461	-	1052			
43P-240	604e/1	166	32/32	0.5	5.73	5.31	
4.75	4.60	47.4	86.3	119			
43P-240	604e/1	233	32/32	1.0	8.71	7.80	
5.87	5.60	48.5	109.1	145			
43P-260	Power3	200	32/64	4.0	13.2	12.5	
30.1	27.6	236.5	248.1	630			
44P-270	630+/1	375	32/64	4.0	24.3	22.6	

48.2	46.0	425	-	1045		
F40	604e/1	233	32/32	1.0	8.71	7.80
5.87	5.60	48.5	109.1	145		
3AT	Pow2	59	32/64	0	2.84	2.71
7.20	6.81	49.7	64.7	166		
3BT	Pow2	67	32/64	0	3.14	3.00
7.50	7.20	52.9	73.0	180		
3BT	Pow2	67	32/64	1.0	3.25	3.12
7.71	7.35	55.1	73.0	182		
3CT	Pow2	67	32/128	0	--	--
--	--	132.8	72.3	224		
3CT	Pow2	67	32/128	2.0	3.31	3.20
9.35	8.75	133.6	72.3	231		
397	P2SC	160	32/128	0	8.62	7.77
26.60	23.00	311.9	147.0	528		

Servers

Model LINPACK	Proc LINPACK	MHz	L1 Cache (KB)	L2 Cache (MB)	SPECint95	SPECint_base95	SPECfp95	SPECfp_ base95	LINPACK
DP	SP	TPP							
12.7	25S	601	66	32	0	1.82	1.69	2.32	2.23
	19.5	33.9							
15.1	25S	601	80	32	0	--	2.03	--	2.58
	21.8	40.5							
20.3	C10	601	80	32	1	--	2.37	--	2.97
	24.9	42.4							
22.7	C20	604	120	16/16	1	--	3.85	--	3.50
	40.7	62.7							
--	43P	604	100	16/16	0.25	3.59	3.36	3.20	3.04
	27.9	56.4							
25.5	43P	604	120	16/16	0.50	4.24	4.01	3.41	3.23
	48.2	61.0							
27.8	43P	604	133	16/16	0.50	4.72	4.55	3.76	3.59
	51.7	67.5							
24.2	43P	604e	166	32/32	0.50	6.19	5.96	5.01	4.83
	71.0	127.7							
22.0	43P-140	604e	166	32/32	0.50	6.15	5.82	4.83	4.66
	66.3	125.6							
22.1	43P-140	604e	200	32/32	1.00	7.79	6.99	5.43	5.12
	72.3	145.2							
22.6	43P-140	604e	233	32/32	1.00	8.66	7.77	5.63	5.30
	77.1	156.2							
	upgrade								
56.0	43P-140	604e	233	32/32	1.00	9.24	8.29	5.75	5.48
	113.3	156.1							
	new								
64.8	43P-150	604e	375	32/32	1.0	15.1	14.5	10.1	9.85
	151.2	255.7							
	44P-170	630+	333	32/64	1.0	19.8	18.6	35.6	34.0

44P-170	630+	400	32/64	4.0	25.3	23.5	47.9	46.0
461	-	1052						
43P-240	604e/1	166	32/32	0.50	5.73	5.31	4.75	4.6
47.4	86.3	119.1						
43P-240	604e/1	233	32/32	1.00	8.71	7.80	5.87	5.6
48.5	109.1	145.6						
43P-260	Power3/2	200	64/32	4.00	13.20	12.50	30.10	27.6
236.5	--	597.1						
44P-270	630+/1	375	32/64	4.0	24.3	22.6	48.2	46.0
425	-	1045						
E20	604	100	16/16	0.50	3.67	3.43	3.13	3.06
23.5	39.5	62.3						
E30	604	133	16/16	0.50	4.74	4.56	3.49	3.34
23.1	46.4	69.0						
E30	604e	166	32/32	1.00	6.19	5.93	4.77	4.62
32.8	74.4	124.0						
E30	604e	233	32/32	0.50	9.41	8.46	6.01	5.71
59.4	108.0	153.5						
F30	604	133	16/16	0.50	4.74	4.56	3.49	3.34
23.1	46.4	69.0						
F30	604e	166	32/32	1.00	6.19	5.93	4.77	4.62
32.8	74.4	124.0						
F30/F3L	604e	233	32/32	0.50	9.41	8.46	6.01	5.71
59.4	108.0	153.5						
F40	604e/1	166	32/32	0.50	5.73	5.31	4.75	4.6
47.4	86.3	119.1						
F40	604e/1	233	32/32	1.00	8.71	7.80	5.87	5.6
48.5	109.1	145.6						
H10	604e/1	166	32/32	0.50	5.73	5.31	4.75	4.6
47.4	86.3	119.1						
H10	604e/1	233	32/32	1.00	8.71	7.80	5.87	5.6
48.5	109.1	145.6						
F50	604e/1	166	32/32	0.25	7.52	6.79	8.52	8.11
70.2	98.9	166.4						
F50/H50	6043/1	332	32/32	0.25	14.40	14.00	12.60	12.1
115.7	158.5	273.4						
390	Pow2	67	32/64	0.00	3.14	3.00	7.50	7.20
52.9	73.0	180.6						
390	Pow2	67	32/64	1.00	3.21	3.09	7.52	7.24
55.1	73.0	182.8						
39H	Pow2	67	32/128	2.00	3.31	3.20	9.35	8.75
133.6	72.3	231.3						
397	P2SC	160	32/128	0	8.62	7.77	26.60	23.0
311.9	147.0	528.0						
58H	Pow2	55	32/256	0.00	--	--	--	--
101.1	51.3	197.2						
590	Pow2	66	32/256	0.00	3.33	3.19	10.40	9.69
131.8	73.2	237.2						
59H	Pow2	66	32/128	1.00	3.31	3.20	9.34	8.74
132.0	73.1	227.1						
591	Pow2	77	32/256	0.00	3.84	3.67	12.40	11.2
156.0	92.9	274.4						
595	P2SC	135	32/128	0.00	6.17	5.90	17.60	15.4
262.1	124.0	443.2						
R20	Pow2	66	32/128	1.00	3.31	3.20	9.34	8.74
132.0	73.1	227.1						

156.0	R21	Pow2	77	32/256	0.00	3.84	3.67	12.40	11.2
			274.4						
141.0	R24	Pow2	71	32/128	2.00	3.53	3.41	9.98	9.33
			245.3						
187.6	H70	RS64II	340	64/64	4.0	16.0	13.7	21.2	20.2
			498.3						

SP2

RS/6000 SP Models

Model	Proc/ MHz	#CPUs	No. Nodes	L1 Cache (KB)	L2 Cache (MB)	Rel OLTP	SPEC int_ rate95	SPEC int_ rate_ base95	SPEC fp_ rate95	SPEC fp_ rate_ base95	SPEC web96 ops/sec	SPEC web99 con/ sec
160 Thin P2SC			1 160	32/128	0	6.7	--	--	243	218	--	--
Silver												
332 SMP 604e/2			1 332	32/32	0.2	17.9	255	245	218	206	--	--
Silver												
332 SMP 604e/4			1 332	32/32	0.2	32.8	501	485	389	364	6716	--
Silver												
Winterhawk I												
POWER3SMP 630/1			1 200	32/64	4.0	10.5	112	104	243	225	--	--
Winterhawk I												
POWER3SMP 630/2			1 200	32/64	4.0	21.0	221	205	464	434	4597	--
Winterhawk I												
Nighthawk												
POWER3SMP 630/2			1 222	32/64	4.0	23.0	249	229	503	461	--	--
Nighthawk												
POWER3SMP 630/4			1 222	32/64	4.0	43.3	493	450	999	910	--	--
Nighthawk												
POWER3SMP 630/6			1 222	32/64	4.0	64.0	724	661	1464	1329	--	--
Nighthawk												
POWER3SMP 630/8			1 222	32/64	4.0	81.3	966	908	1877	1760	--	--
Nighthawk												
Winterhawk II												
POWER3SMP 630+/2			1 375	32/64	8.0	44.0	438	407	844	804	--	--
Winterhawk II												
POWER3SMP 630+/4			1 375	32/64	8.0	80.0	875	812	1382	1359	--	--
Winterhawk II												
POWER3SMP 630+/4			8 375	32/64	8.0	--	6014	5616	10605	10395	--	--
Winterhawk II												
POWER3SMP 630+/4			16 375	32/64	8.0	--	10366	10001	20251	20220	--	--
Winterhawk II												
POWER3SMP 630+/4			32 375	32/64	8.0	--	--	---	38073	38073	--	--
Winterhawk II												

Former models									
Model	Proc	MHz	L1	L2	int95	int_	fp95	fp_	LINPACK
LINPACK	LINPACK		Cache	Cache		base95		base95	DP
SP	TPP		(KB)	(MB)					
Thin	Pow2	67	32/64	1.0	3.31	3.20	9.35	8.75	55.10
73.00	182.80								
Thin	Pow2	67	32/128	2.0	3.42	3.29	10.20	9.61	133.60
72.30	231.30								
Wide	Pow2	67	32/256	0	3.33	3.19	10.40	9.69	131.80
73.20	237.20								
Wide	Pow2	77	32/256	0	3.84	3.67	12.40	11.20	156.00
92.90	274.40								
Thin	P2SC	120	32/128	0	5.61	5.36	16.60	14.60	234.90
110.50	405.70								
Wide	P2SC	135	32/128	0	6.17	5.90	17.60	15.40	262.10
124.00	443.20								
Thin	P2SC	160	32/128	0	8.61	7.06	25.80	22.40	311.90
147.00	528.00								
SMP	604e	332	32/32	.256	14.4	14.0	12.6	12.1	115.7
158.5	273.40								

Section 2 - COMMERCIAL (Multiuser) PERFORMANCE - Servers

Servers

Model	Proc	MHz	L1	L2	Rel	tpmC	SPECint_rate95	SPECint_	SPECfp_rate95
SPECfp_	SPEC		Cache	Cache	OLTP			base_rate95	
base_rate95	web96		(KB)	(MB)				ops/sec	
25S	601	66	32	0	1.0	300	--	--	
--	--	--							
C10	601	80	32	1	1.8	485*	--	--	
--	--	--							
C20	604	120	16/16	1	2.6	620	--	--	
--	--	--							
43P	604	100	16/16	0.25	1.5	450	--	--	
--	--	--							
43P	604	120	16/16	0.5	1.9	560	--	--	
--	--	--							
43P	604	133	16/16	0.5	2.1	620	--	--	
--	--	--							
43P	604e	166	32/32	0.5	2.6	--	--	--	

--	43P-140	604e	166	32/32	0.5	2.9	--	--	--
--	43P-140	604e	200	32/32	1	3.6	--	--	--
--	43P-140	604e	459	32/32	1	3.7	--	--	--
--	upgrade								
42.7	43P-140new	604e	233	32/32	1	3.9	--	--	--
76.5	43P-140	604e	332	32/32	1	5.3			
52	43P-150	604e	375	32/32	1	6.0			
95.2	44P-170	630+	333	32/64	1	10.4			
266	44P-170	630+	400	32/64	4	14.5			
509	43P-240	604e/1	166	32/32	0.5	2.8	--	51.5	47.7
243	43P-240	604e/2	166	32/32	0.5	4.2	--	97.4	90.4
464	43P-240	604e/1	233	32/32	1	3.7	--	78	69.9
434	43P-240	604e/2	233	64/64	2	5.2	--	151	132
767	43P-260	604e/1	200	64/32	4	10.5	--	116	111
--	43P-260	604e/2	200	128/64	8	21.0	--	232	222
--	44P-270	630+/1	375	32/64	4	21.0		112	104
--	44P-270	630+/2	375	64/128	8	40.3		221	205
--	44P-270	630+/3	375	96/192	12	54.2		218	203
--	44P-270	630+/4	375	128/256	16	68.0		437	406
--	E20	604.00	100	16/16	0.5	2.5	735*	--	--
--	E30	604.00	133	16/16	0.5	2.8	850	--	--
--	E30	604e	166	32/32	1	3.7	--	--	--
--	E30	604e	233	32/32	0.5	4.7	--	--	--
--	F30	604.00	133	16/16	0.5	2.8	850	--	--
--	F30	604e	166	32/32	1	3.7	--	--	--
--	F30	604e	233	32/32	0.5	4.7	--	--	--
42.7	F40	604e/1	166	32/32	0.5	2.8	--	51.5	47.7
76.5	F40	604e/2	166	64/64	1	4.2	--	97.4	90.4
--	F40	604e/1	233	32/32	1	3.7	--	--	--
--	F40	604e/2	233	64/64	2	5.2	--	--	--
--	H10	604e/1	166	32/32	0.5	2.8	--	51.5	47.7

42.7	41.3	--							
	H10	604e/2	166	64/64	1	4.2	--	97.4	90.4
76.5	73.5	--							
	F50	604e/1	166	32/32	0.26	7.6	--	67.5	61
76.5	72.8	--							
	F50	604e/2	166	64/64	0.51	13.7	--	135	121
149	143	--							
	F50	604e/3	166	96/96	0.77	19*	--	186*	181*
216*	205*	--							
	F50	604e/4	166	128/128	1	24.4	8142*	237	241
283	267	2,148							
	F50/H50	604e/1	332	32/32	.2	10.0		131	126
113	109								
	F50/H50	604e/2	332	64/64	.4	17.9		260	249
217	206								
	F50/H50	604e/3	332	96/96	.6	25.2		388	369
307	292								
	F50/H50	604e/4	332	128/128	.8	32.8	9,853*	510	490
387	366	2,755							
	390	Pow2	67	32/64	1	4.30	900	--	--
--	--	--							
	39H	Pow2	67	32/128	1	4.40	1000	--	--
--	--	--							
	397	P2SC	160	32/128	1	6.70			
	G30	601/2	75	32.00	0.5	4.20	880	40.40	36.90
44.10	43.20	--							
	G30	601/4	75	64.00	1	7.00	1450	73.00	77.10
81.50	78.80	--							
	G40	601/1	112	16/16	0.5	2.60	--	33.60	32.20
28.20	26.90	--							
	G40	604/2	112	32/32	1	4.80	--	66.50	60.60
53.30	50.70	--							
	G40	604/4	112	64/64	2	8.80	--	122.00	110.00
-	-	--							
	G40	604e/2	187	32/32	2	6.60	--	129.00	113.00
87.10	80.70	--							
	G40	604e/4	187	64/64	4	10.90	--	254.00	217.00
154.00	149.00	--							
	58H	Pow2	55	32/256	0	3.20	960	--	--
--	--	--							
	590	Pow2	66	32/256	0	3.9	1170	--	--
--	--	--							
	59H	Pow2	66	32/128	1	4.4	1330	--	--
--	--	--							
	591	Pow2	77	32/256	0	4.5	1350	--	--
--	--	--							
	595	P2SC	135	32/128	0	5.8	1750	--	--
--	--	--							
	J30	601/2	75	32	1	4.7	1400	42.3	39.7
47.4	46.4	--							
	J30	601/4	75	64	2	7.8	2350	83	78.2
91.3	89.3	--							
	J30	601/6	75	96	3	10.7	3200	125	117.0
134	133	--							
	J30	601/8	75	128	4	12.1	3630	162	153.0
172	165	--							
	J40	604/2	112	16/16	1	5.3	--	71	64.9

57.3	53.4	--								
	J40	604/4	112	32/32	2	9.8	--		138	129
107	102	--								
	J40	604/6	112	48/48	3	14.5	--		205	195
159	154	--								
	J40	604/8	112	64/64	4	19.2	5,774*		258	244
200	189	--								
	J50	604e/2	200	16/16	2	8.7	--		137	121
92.5	90.3	--								
	J50	604e/4	200	32/32	4	15.9	--		268	244
183	176	--								
	J50	604e/6	200	48/48	6	22.6	--		396	343
261	248	--								
	J50	604e/8	200	64/64	8	28.5	9165*		509	445
332	320	--								
	R20	Pow2	66	32/128	1	4.4	1330		--	--
--	--	--								
	R21	Pow2	77	32/256	0	4.5	1350		--	--
--	--	--								
	R24	Pow2	71	32/128	2	4.9	1,470*		--	--
--	--	--								
	R30	601/2	75.	32.00	1	4.7	1400		42.3	39.7
47.4	46.4	--								
	R30	601/4	75	64.00	2	7.8	2350		83	78.2
91.3	89.3	--								
	R30	601/6	75	96.00	3	10.7	3200		125	117
134	133	--								
	R30	601/8	75	128.00	4	12.1	3630		162	153
172	165	--								
	R40	604/2	112	16/16	1	5.3	--		71.9	64.9
57.3	53.4	--								
	R40	604/4	112	32/32	2	9.8	--		138	129
107	102	--								
	R40	604/6	112	48/48	3	14.5	--		205	195
159	154	--								
	R40	604/8	112	64/64	4	19.2	5,774*		258	244
200	189	--								
	R50	604e/2	200	16/16	2	8.7	--		137	121
92.5	90.3	--								
	R50	604e/4	200	32/32	4	15.9	--		268	244
183	176	--								
	R50	604e/6	200	48/48	6	22.6	--		396	343
261	248	--								
	R50	604e/8	200	64/64	8	28.5	9,165		509	445
332	320	--								
	H70	RS64II/1	340	64/64	4	16.6	--		144	124
191	182	--								
	H70	RS64II/2	340	64/64	8	31.7	--		287	247
370	354	6,958								
	H70	RS64II/3	340	64/64	12	44.2	--		430	370
534	512	--								
	H70	RS64II/4	340	64/64	16	56.7	17,133		573	492
674	645	11,774								
	S70	RS64/4	125	64/64	4	24.2	--			
	S70	RS64/8	125	128/128	8	44.0	--			
	S70	RS64/12	125	192/192	12	60.5				
18,667									4,075	

	S7A	RS64II/4	262	64/64	8	46.0	--		
	S7A	RS64II/8	262	128/128	16	82.7			
	S7ARS64II/12		262	192/192	24	113.8			
34,139								20,200	
	S80	RS64-3	450	128/128	8	139			
	S80	RS64-3	450	256/256	16				
265								40,161	
	S80	RS64-3	450	384/384	24	369			
	S80	RS64-3	450	512/512	32	452	135,815		

SP2

Model	Proc	MHz	L1	L2	Rel	tpmC	SPEC	SPECint_	SPECfp_rate95
SPECfp_	SPEC web96		Cache	Cache	OLTP			int_rate95	base_rate95
base_rate95	ops/sec		(KB)	(MB)	Perf				
	Thin	Pow2	66	32/128	2.00	4.4	1000	--	--
--	--	--	--	--	--	--	--	--	--
	Thin 120	P2SC	120	32/128	0	5.8	--	--	--
--	--	--	--	--	--	--	--	--	--
	Wide	Pow2	66	32/256	0	3.9	1170	--	--
--	--	--	--	--	--	--	--	--	--
	Wide	Pow2	77	32/256	0	4.5	1350	--	--
--	--	--	--	--	--	--	--	--	--
	Wide 135	P2SC	135	32/128	0	5.8	--	--	--
--	--	--	--	--	--	--	--	--	--
	Thin 160	P2SC	160	32/128	0	6.7			
	High	604/2	112	16/16	1.00	5.8	--	71.9	64.9
57.3	53.4								
	High	604/4	112	32/32	2	10.0	--	138	129
107	102								
	High	604/6	112	48/48	3	14.5	--	205	195
159	154								
	SMP 332	604e/2	332	64/64	.512	17.9	--	255	245
218	206								
	SMP 332	604e/4	332	128/128	1	32.8	--	501	485
389	364	6716							
	High	604/8	112	64/64	4	19.2	5,774	258	244
200	189								
	High	604e/2	200	32/32	2	9.3		137	121
92.5	90.3								
	High	604e/4	200	64/64	4	17.0		268	244
183	176								
	High	604e/6	200	96/96	6	23.8		396	343
261	248								
	Power3-SMP	Power3/1	200	64/32	4	10.5		112	104
243	225								

Power3-SMP	Power3/2	200	128/64	8	21.0	221	205
464	434	4597					
High	604e/8	200	128/128	8	30.6	509	445
332	320						
Power3-SMP	Power3/2	222	32/64	4	23.0	249	229
503	461						
Power3-SMP	Power3/4	222	64/128	8	43.3	493	450
999	910						
Power3-SMP	Power3/6	222	96/196	12	64.0	724	661
1464	1329						
Power3-SMP	Power3/8	222	128/256	16	81.3	966	908
1877	1760						
Power3-SMP	630+/2	375	32/64	8	44.0	438	407
844	804						
Power3-SMP	630+/4	375	64/128	16	80.0	875	812
1382	1359						

PERFORMANCE METRICS for RS/6000 SYSTEMS

Section One covers SPEC and LINPACK results for most RS/6000 models and is relative to performance of a single processor for each system.

Notebooks **Workstations** **Servers** **SP Nodes**

Section Two contains the Commercial (multiuser) performance metrics for most RS/6000 Server systems; in the case of Symmetric Multi-Processor (SMP) systems, performance metrics are shown for the various processor configurations.

Servers **SP Nodes**

All performance measurements were made with systems running the AIX operating system. Systems are typically tested with the most recent version of AIX which was available at the time the test was performed. Practically all systems shown in these tables were tested with some release of AIX Version 4.

TPM estimates may be used for comparison and positioning with other systems. However care must be taken in how they are referenced in any documents, presentations or other materials. References and associations with the Transaction Processing Performance Council (TPC) are prohibited by TPC. The notation, tpm, must always be used with these estimates. An alternative comparison of performance in a commercial environment is now being used by IBM and is indicated as Relative OLTP (On-Line Transaction Processing) Performance. The performance is compared to that of a model 25S/250 performance for this workload.

Note that these performance measurements were all made with systems running the AIX operating system. Performance measurements are not yet available for systems running the Solaris or Windows NT operating systems.

More Performance Notes

NOTES ON PERFORMANCE VALUES

The performance benchmarks and the values shown here were derived using

particular, well configured, development-level computer systems. Unless otherwise indicated for a system, the values were derived using 32-bit applications and external cache if external cache is supported on the system. All performance benchmark values are provided "As Is" and no warranties or guarantees are stated or implied by IBM. Actual system performance may vary and is dependent upon many factors including system hardware configuration and software design and configuration. Buyers should consult other sources of information to evaluate the performance of systems they are considering buying and should consider conducting application-oriented testing. For additional information about the performance benchmarks, values, and systems tested, please contact your local IBM Branch Office or IBM Authorized Reseller.

Unless otherwise indicated for a system, the performance benchmarks were conducted using AIX V4.2 or V4.3. IBM C for AIX V3.6.4.0 and XL Fortran V6.1.0.0 and V7.1.0.0 were the compilers used in the benchmark tests. The preprocessors used in the benchmark tests include KAP 3.2 for Fortran and KAP/C 1.4.2 from Kuck & Associates and VAST-2 V4.01X8 from Pacific-Sierra Research. The preprocessors were purchased separately from these vendors.

SPECint95: SPEC component-level benchmark that measures integer performance. Result is the geometric mean of eight tests that comprise the CINT95 benchmark suite. All of these are written in C language.

SPECint_base95 is the result of the same tests in CINT95 with a maximum of four compiler flags that must be used in all eight tests. (Units are relative to SPARCstation 10, which has value of 1.0.)

SPECint_rate95: Geometric average of the eight SPEC rates from the SPEC integer tests (CINT95).

SPECint_base_rate95 is result of the same tests as CINT95 with a maximum of four compiler flags that must be used in all eight tests.

SPECfp95: New SPEC component-level benchmark that measures floating point performance. Result is the geometric mean of ten tests, all written in FORTRAN, that are included in the CFP95 benchmark suite. **SPECfp_base95** is the result of the same test in CFP95 with a maximum of four compiler flags that must be used in all ten tests. (Units are relative to SPARCstation 10, which has value of 1.0.)

SPECfp_rate95: Geometric average of the ten SPEC rates from SPEC floating-point tests (CFP95).

SPECfp_base_rate95 is the result of the same tests as CFP95 with a maximum of four compiler flags that must be used in all ten tests.

LINPACK DP: Double precision, n=100 results with AIX XL FORTRAN compiler, with optimization. Units are megaflops (MFLOPS).

LINPACK SP: Single Precision, n=100 results with AIX XL FORTRAN compiler, with optimization. Units are megaflops (MFLOPS).

LINPACK TPP: Toward Peak Performance (TPP), n=1,000 results with AIX XL FORTRAN compiler, with optimization. Units are megaflops (MFLOPS).

SPECweb96 is the maximum number of HTTP operations per second achieved on

the SPECweb96 benchmark without significant degradation of response time. The web server software is IBM HTTP Server 1.3.4 or Zeus V1.1 from Zeus Technology Ltd.

Rel. OLTP Perf - Relative OLTP performance is an estimate of commercial throughput using an IBM analytical model. This model simulates some of the system's operations of the CPU, caches, and memory in an OLTP environment but does not simulate the disk or network I/O operations. Although general database and operating systems parameters are used, the model does not represent specific databases or AIX versions. With these limitations, ROP may be used to compare RS/6000 performance. The model 250 is the reference system and has a value of 1.0.

The following Transaction Processing Council (TPC) benchmarks reflect the performance of the microprocessor, memory subsystem, disk subsystem, and some portions of the network:

"tpmC" - TPC Benchmark C throughput measured as the average number of transactions processed per minute during a valid TPC-C configuration run of at least twenty minutes.

\$/tpmC is TPC Benchmark C price-performance ratio where the estimated 5-year total cost of ownership for system hardware, software, and maintenance is divided by the throughput, tpmC. For complete disclosure information please see TPC Web page at <http://www.tpc.org>.

SPECint95 and SPECfp95 are trademarks of the Standard Performance Evaluation Corporation. KAP is a trademark of Kuck Associates. VAST-2 is a registered trademark of Pacific Sierra Research Corporation. TPC-C is a registered trademark of the Transaction Processing Performance Council.

Notes on Performance Estimates:

Relative OLTP (ROLTP) is an estimate of commercial performance derived from an IBM analytical model. The model simulates some of the system's operations such as CPU, cache, and memory. However, the model does not simulate disk or network I/O operations. Although the model uses general database and operating system parameters, the model does not reflect specific databases or AIX versions or releases. Unless otherwise indicated for a system, the model assumes the use of 32-bit applications. Unless otherwise indicated for a system, ROLTP is estimated only at the time the system is introduced. An IBM RS/6000 Model 250 is the baseline reference system and has a value of 1.0. Although ROLTP may be used to compare estimated RS/6000 commercial processing performance, actual system performance may vary and is dependent upon many factors including system hardware configuration and software design and configuration. All performance benchmark values are provided "AS IS" and no warranties or guarantees are stated or implied by IBM. Buyers should consult other sources of information to evaluate the performance of systems they are considering buying.

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PERFORMANCE METRICS for RS/6000 SYSTEMS

Section One covers SPEC and LINPACK results for most RS/6000 models and is relative to performance of a single processor for each system.

[Notebooks](#)

[Workstations](#)

[Servers](#)

[SP Nodes](#)

Section Two contains the Commercial performance metrics for most RS/6000 Server systems; in the case of Symmetric Multi-Processor (SMP) systems, performance metrics are shown for the various processor configurations.

[Servers](#)

[SP Nodes](#)

All performance measurements were made with systems running the AIX operating system. Systems are typically tested with the most recent version of AIX which was available at the time the test was performed. Practically all systems shown in these tables were tested with some release of AIX Version 4.

TPM estimates may be used for comparison and positioning with other systems. However care must be taken in how they are referenced in any documents, presentations or other materials. References and associations with the Transaction Processing Performance Council (TPC) are prohibited by TPC. The notation, tpm, must always be used with these estimates. An alternative comparison of performance in a commercial environment is now being used by IBM and is indicated as Relative OLTP (On-Line Transaction Processing) Performance. The performance is compared to that of a model 25S/250 performance for this workload.

Note that these performance measurements were all made with systems running the AIX operating system. Performance measurements are not yet available for systems running the Solaris or Windows NT operating systems.

[More Performance Notes](#)

Section 1 - SPEC and LINPACK PERFORMANCE

Notebooks (non-commercial) [\[top of page\]](#)

Model	Proc	MHz	L1 Cache (KB)	L2 Cache (MB)	SPECint95	SPECint_base95	SPECfp95	SPECfp_base95	LINPACK DP	LINPACK SP	LINPACK TPP
820	603	100	16/16	0.25	--	--	--	--	--	--	--
850	603	100	16/16	0.25	--	2.53	--	2.07	--	--	--

860	603e	166	16/16	0.25	3.94	3.62	2.71	2.62			
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Workstations (non-commercial) [\[top of page\]](#)

Model	Proc	MHz	L1 Cache (KB)	L2 Cache (MB)	SPECint95	SPECint_base95	SPECfp95	SPECfp_base95	LINPACK DP	LINPACK SP	LINPACK TPP
25T	601	66	32	0	1.82	1.69	2.32	2.23	12.7	19.5	33.9
25T	601	80	32	0	--	2.03	--	2.58	15.1	21.8	40.5
41T	601	80	32	0	--	2.03	--	2.58	15.1	21.8	40.5
41T	601	80	32	0.5	--	--	--	--	20.1	24.9	41.9
42W/T	604	120	16/16	0	3.21	2.93	2.74	2.57	--	26.9	42.3
42W/T	604	120	16/16	0.5	4.01	3.75	3.53	3.37	22.4	39.7	60.9
43P-100	604	100	16/16	0.25	3.59	3.36	3.20	3.04	--	27.9	56.4
43P-120	604	120	16/16	0.5	4.24	4.01	3.41	3.23	25.5	48.2	61.0
43P-132	604	133	16/16	0.5	4.72	4.55	3.76	3.59	27.8	51.7	67.5
43P-140	604e	166/ 200	32/32	0.5/1	6.19/7.2	5.8/6.9	4.8/5.2	4.6/5.1	22/21.9	66/71	125/145
43P-140 upgrade	604e	233	32/32	1.0	8.66	7.77	5.63	5.30	22.6	77.1	156
43P-140new	604e	233	32/32	1.0	9.24	8.29	5.75	5.48	56.0	113.3	156
43P-140	604e	332	32/32	1.0	12.90	12.20	6.21	5.99	59.9	123.6	179
43P-150	604e	375	32/32	1.0	15.1	14.5	10.1	9.85	64.8	151.2	255.7
43P-240	604e/1	166	32/32	0.5	5.73	5.31	4.75	4.60	47.4	86.3	119
43P-240	604e/1	233	32/32	1.0	8.71	7.80	5.87	5.60	48.5	109.1	145
43P-260	Pow3	200	32/64	4.0	13.2	12.5	30.1	27.6	236.5	248.1	630
F40	604e/1	233	32/32	1.0	8.71	7.80	5.87	5.60	48.5	109.1	145
3AT	Pow2	59	32/64	0	2.84	2.71	7.20	6.81	49.7	64.7	166
3BT	Pow2	67	32/64	0	3.14	3.00	7.50	7.20	52.9	73.0	180
3BT	Pow2	67	32/64	1.0	3.25	3.12	7.71	7.35	55.1	73.0	182
3CT	Pow2	67	32/128	0	--	--	--	--	132.8	72.3	224
3CT	Pow2	67	32/128	2.0	3.31	3.20	9.35	8.75	133.6	72.3	231

397	P2SC	160	32/128	0	8.62	7.77	26.60	23.00	311.9	147.0	528
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Servers (non-commercial performance) [\[top of page\]](#)

Model	Proc	MHz	L1 Cache (KB)	L2 Cache (MB)	SPECint95	SPECint_base95	SPECfp95	SPECfp_ base95	LINPACK DP	LINPACK SP	LINPACK TPP
25S	601	66	32	0	1.82	1.69	2.32	2.23	12.7	19.5	33.9
25S	601	80	32	0	--	2.03	--	2.58	15.1	21.8	40.5
C10	601	80	32	1	--	2.37	--	2.97	20.3	24.9	42.4
C20	604	120	16/16	1	--	3.85	--	3.50	22.7	40.7	62.7
43P	604	100	16/16	0.25	3.59	3.36	3.20	3.04	--	27.9	56.4
43P	604	120	16/16	0.50	4.24	4.01	3.41	3.23	25.5	48.2	61.0
43P	604	133	16/16	0.50	4.72	4.55	3.76	3.59	27.8	51.7	67.5
43P	604e	166	32/32	0.50	6.19	5.96	5.01	4.83	24.2	71.0	127.7
43P-140	604e	166	32/32	0.50	6.15	5.82	4.83	4.66	22.0	66.3	125.6
43P-140	604e	200	32/32	1.00	7.79	6.99	5.43	5.12	22.1	72.3	145.2
43P-140 upgrade	604e	233	32/32	1.00	8.66	7.77	5.63	5.30	22.6	77.1	156.2
43P-140 new	604e	233	32/32	1.00	9.24	8.29	5.75	5.48	56.0	113.3	156.1
43P-240	604e/1	166	32/32	0.50	5.73	5.31	4.75	4.6	47.4	86.3	119.1
43P-240	604e/1	233	32/32	1.00	8.71	7.80	5.87	5.6	48.5	109.1	145.6
43P-260	Power3/2	200	64/32	4.00	13.20	12.50	30.10	27.6	236.5	--	597.1
E20	604	100	16/16	0.50	3.67	3.43	3.13	3.06	23.5	39.5	62.3
E30	604	133	16/16	0.50	4.74	4.56	3.49	3.34	23.1	46.4	69.0
E30	604e	166	32/32	1.00	6.19	5.93	4.77	4.62	32.8	74.4	124.0
E30	604e	233	32/32	0.50	9.41	8.46	6.01	5.71	59.4	108.0	153.5
F30	604	133	16/16	0.50	4.74	4.56	3.49	3.34	23.1	46.4	69.0
F30	604e	166	32/32	1.00	6.19	5.93	4.77	4.62	32.8	74.4	124.0
F30/F3L	604e	233	32/32	0.50	9.41	8.46	6.01	5.71	59.4	108.0	153.5
F40	604e/1	166	32/32	0.50	5.73	5.31	4.75	4.6	47.4	86.3	119.1
F40	604e/1	233	32/32	1.00	8.71	7.80	5.87	5.6	48.5	109.1	145.6
H10	604e/1	166	32/32	0.50	5.73	5.31	4.75	4.6	47.4	86.3	119.1
H10	604e/1	233	32/32	1.00	8.71	7.80	5.87	5.6	48.5	109.1	145.6

F50	604e/1	166	32/32	0.25	7.52	6.79	8.52	8.11	70.2	98.9	166.4
F50/H50	6043/1	332	32/32	0.25	14.40	14.00	12.60	12.1	115.7	158.5	273.4
390	Pow2	67	32/64	0.00	3.14	3.00	7.50	7.20	52.9	73.0	180.6
390	Pow2	67	32/64	1.00	3.21	3.09	7.52	7.24	55.1	73.0	182.8
39H	Pow2	67	32/128	2.00	3.31	3.20	9.35	8.75	133.6	72.3	231.3
397	P2SC	160	32/128	0	8.62	7.77	26.60	23.0	311.9	147.0	528.0
58H	Pow2	55	32/256	0.00	--	--	--	--	101.1	51.3	197.2
590	Pow2	66	32/256	0.00	3.33	3.19	10.40	9.69	131.8	73.2	237.2
59H	Pow2	66	32/128	1.00	3.31	3.20	9.34	8.74	132.0	73.1	227.1
591	Pow2	77	32/256	0.00	3.84	3.67	12.40	11.2	156.0	92.9	274.4
595	P2SC	135	32/128	0.00	6.17	5.90	17.60	15.4	262.1	124.0	443.2
R20	Pow2	66	32/128	1.00	3.31	3.20	9.34	8.74	132.0	73.1	227.1
R21	Pow2	77	32/256	0.00	3.84	3.67	12.40	11.2	156.0	92.9	274.4
R24	Pow2	71	32/128	2.00	3.53	3.41	9.98	9.33	141.0	78.2	245.3
H70	RS64II	340	64/64	4.0	16.0	13.7	21.2	20.2	187.6	124.0	498.3
S70	RS64	125									

Scalable POWERparallel Models (characteristics of individual nodes) [\[top of page\]](#)

Model	Proc	MHz	L1	L2	SPECint95	SPECint_ base95	SPECfp95	SPECfp_ base95	LINPACK DP	LINPACK SP	LINPACK TPP
			Cache (KB)	Cache (MB)							
Thin	Pow2	67	32/64	1.0	3.31	3.20	9.35	8.75	55.10	73.00	182.80
Thin	Pow2	67	32/128	2.0	3.42	3.29	10.20	9.61	133.60	72.30	231.30
Wide	Pow2	67	32/256	0	3.33	3.19	10.40	9.69	131.80	73.20	237.20
Wide	Pow2	77	32/256	0	3.84	3.67	12.40	11.20	156.00	92.90	274.40
Thin	P2SC	120	32/128	0	5.61	5.36	16.60	14.60	234.90	110.50	405.70
Wide	P2SC	135	32/128	0	6.17	5.90	17.60	15.40	262.10	124.00	443.20
Thin	P2SC	160	32/128	0	8.61	7.06	25.80	22.40	311.90	147.00	528.00
T/W 332	604e	332	32/32	.256	14.4	14.00	12.60	12.10	115.70	158.50	273.40
T/W	Pow3	200	32/64	4	16.0	13.7	21.2	20.2	187.6	124.0	498.3

Section 2 - COMMERCIAL PERFORMANCE - Servers [\[top of page\]](#)

Model	Proc	MHz	L1 Cache (KB)	L2 Cache (MB)	Rel OLTP Perf	tpm	SPECint_rate95	SPECint_ base_rate95	SPECfp_rate95	SPECfp_ base_rate95	SPEC web96 ops/ sec
25S	601	66	32	0	1.0	300	--	--	--	--	--
C10	601	80	32	1	1.8	485*	--	--	--	--	--
C20	604	120	16/16	1	2.6	620	--	--	--	--	--
43P	604	100	16/16	0.25	1.5	450	--	--	--	--	--
43P	604	120	16/16	0.5	1.9	560	--	--	--	--	--
43P	604	133	16/16	0.5	2.1	620	--	--	--	--	--
43P	604e	166	32/32	0.5	2.6	--	--	--	--	--	--
43P-140	604e	166	32/32	0.5	2.9	--	--	--	--	--	--
43P-140	604e	200	32/32	1	3.6	--	--	--	--	--	459
43P-140 upgrade	604e	233	32/32	1	3.7	--	--	--	--	--	--
43P- 140new	604e	233	32/32	1	3.9	--	--	--	--	--	--
43P-140	604e	332	32/32	1	5.3	--	--	--	--	--	--
43P-240	604e/1	166	32/32	0.5	2.8	--	51.5	47.7	42.7	41.3	--
43P-240	604e/2	166	32/32	0.5	4.2	--	97.4	90.4	76.5	73.5	--
43P-240	604e/1	233	32/32	1	3.7	--	78	69.9	52	50.1	--
43P-240	604e/2	233	64/64	2	5.2	--	151	132	95.2	89.5	--
43P-260	604e/1	200	64/32	4	10.5	--	116	111	266	243	--
43P-260	604e/2	200	128/64	8	21.0	--	232	222	509	468	2,654
E20	604.00	100	16/16	0.5	2.5	735*	--	--	--	--	--
E30	604.00	133	16/16	0.5	2.8	850	--	--	--	--	--
E30	604e	166	32/32	1	3.7	--	--	--	--	--	--
E30	604e	233	32/32	0.5	4.7	--	--	--	--	--	--
F30	604.00	133	16/16	0.5	2.8	850	--	--	--	--	--
F30	604e	166	32/32	1	3.7	--	--	--	--	--	--
F30	604e	233	32/32	0.5	4.7	--	--	--	--	--	--

F40	604e/1	166	32/32	0.5	2.8	--	51.5	47.7	42.7	41.3	--
F40	604e/2	166	64/64	1	4.2	--	97.4	90.4	76.5	73.5	--
F40	604e/1	233	32/32	1	3.7	--	--	--	--	--	--
F40	604e/2	233	64/64	2	5.2	--	--	--	--	--	--
H10	604e/1	166	32/32	0.5	2.8	--	51.5	47.7	42.7	41.3	--
H10	604e/2	166	64/64	1	4.2	--	97.4	90.4	76.5	73.5	--
F50	604e/1	166	32/32	0.26	7.6	--	67.5	61	76.5	72.8	--
F50	604e/2	166	64/64	0.51	13.7	--	135	121	149	143	--
F50	604e/3	166	96/96	0.77	19*	--	186*	181*	216*	205*	--
F50	604e/4	166	128/128	1	24.4	8142*	237	241	283	267	2,148
F50/H50	604e/1	332	32/32	.2	10.0		131	126	113	109	
F50/H50	604e/2	332	64/64	.4	17.9		260	249	217	206	
F50/H50	604e/3	332	96/96	.6	25.2		388	369	307	292	
F50/H50	604e/4	332	128/128	.8	32.8	9,853*	510	490	387	366	2,755
390	Pow2	67	32/64	1	4.30	900	--	--	--	--	--
39H	Pow2	67	32/128	1	4.40	1000	--	--	--	--	--
397	P2SC	160	32/128	1	6.70						
G30	601/2	75	32.00	0.5	4.20	880	40.40	36.90	44.10	43.20	--
G30	601/4	75	64.00	1	7.00	1450	73.00	77.10	81.50	78.80	--
G40	601/1	112	16/16	0.5	2.60	--	33.60	32.20	28.20	26.90	--
G40	604/2	112	32/32	1	4.80	--	66.50	60.60	53.30	50.70	--
G40	604/4	112	64/64	2	8.80	--	122.00	110.00	-	-	--
G40	604e/2	187	32/32	2	6.60	--	129.00	113.00	87.10	80.70	--
G40	604e/4	187	64/64	4	10.90	--	254.00	217.00	154.00	149.00	--
58H	Pow2	55	32/256	0	3.20	960	--	--	--	--	--
590	Pow2	66	32/256	0	3.9	1170	--	--	--	--	--
59H	Pow2	66	32/128	1	4.4	1330	--	--	--	--	--
591	Pow2	77	32/256	0	4.5	1350	--	--	--	--	--
595	P2SC	135	32/128	0	5.8	1750	--	--	--	--	--
J30	601/2	75	32	1	4.7	1400	42.3	39.7	47.4	46.4	--
J30	601/4	75	64	2	7.8	2350	83	78.2	91.3	89.3	--
J30	601/6	75	96	3	10.7	3200	125	117.0	134	133	--
J30	601/8	75	128	4	12.1	3630	162	153.0	172	165	--
J40	604/2	112	16/16	1	5.3	--	71	64.9	57.3	53.4	--
J40	604/4	112	32/32	2	9.8	--	138	129	107	102	--

J40	604/6	112	48/48	3	14.5	--	205	195	159	154	--
J40	604/8	112	64/64	4	19.2	5,774*	258	244	200	189	--
J50	604e/2	200	16/16	2	8.7	--	137	121	92.5	90.3	--
J50	604e/4	200	32/32	4	15.9	--	268	244	183	176	--
J50	604e/6	200	48/48	6	22.6	--	396	343	261	248	--
J50	604e/8	200	64/64	8	28.5	9165*	509	445	332	320	--
R20	Pow2	66	32/128	1	4.4	1330	--	--	--	--	--
R21	Pow2	77	32/256	0	4.5	1350	--	--	--	--	--
R24	Pow2	71	32/128	2	4.9	1,470*	--	--	--	--	--
R30	601/2	75.	32.00	1	4.7	1400	42.3	39.7	47.4	46.4	--
R30	601/4	75	64.00	2	7.8	2350	83	78.2	91.3	89.3	--
R30	601/6	75	96.00	3	10.7	3200	125	117	134	133	--
R30	601/8	75	128.00	4	12.1	3630	162	153	172	165	--
R40	604/2	112	16/16	1	5.3	--	71.9	64.9	57.3	53.4	--
R40	604/4	112	32/32	2	9.8	--	138	129	107	102	--
R40	604/6	112	48/48	3	14.5	--	205	195	159	154	--
R40	604/8	112	64/64	4	19.2	5,774*	258	244	200	189	--
R50	604e/2	200	16/16	2	8.7	--	137	121	92.5	90.3	--
R50	604e/4	200	32/32	4	15.9	--	268	244	183	176	--
R50	604e/6	200	48/48	6	22.6	--	396	343	261	248	--
R50	604e/8	200	64/64	8	28.5	9,165	509	445	332	320	--
H70	RS64II/1	340	64/64	4	16.6	--	144	124	191	182	--
H70	RS64II/2	340	64/64	8	31.7	--	287	247	370	354	6,958
H70	RS64II/3	340	64/64	12	44.2	--	430	370	534	512	--
H70	RS64II/4	340	64/64	16	56.7	--	573	492	674	645	11,774
S70	RS64/4	125	64/64	4	24.2	--					
S70	RS64/8	125	128/128	8	44.0	--					
S70	RS64/12	125	192/192	12	60.5	18,667					4,075
S7A	RS64II/4	262	64/64	8	46.0	--					
S7A	RS64II/8	262	128/128	16	82.7						
S7A	RS64II/12	262	192/192	24	113.8	34,139					20,200

Scalable POWERparallel Models (characteristics of individual nodes) [\[top of page\]](#)

Model	Proc	MHz	L1 Cache (KB)	L2 Cache (MB)	Rel OLTP Perf	tpm	SPEC int_rate95	SPECint_base_rate95	SPECfp_rate95	SPECfp_base_rate95	SPEC web96 ops/sec
Thin	Pow2	66	32/128	2.00	4.4	1000	--	--	--	--	
Thin 120	P2SC	120	32/128	0	5.8	--	--	--	--	--	
Wide	Pow2	66	32/256	0	3.9	1170	--	--	--	--	
Wide	Pow2	77	32/256	0	4.5	1350	--	--	--	--	
Wide 135	P2SC	135	32/128	0	5.8	--	--	--	--	--	
Thin 160	P2SC	160	32/128	0	6.7						
High	604/2	112	16/16	1.00	5.8	--	71.9	64.9	57.3	53.4	
High	604/4	112	32/32	2	10.0	--	138	129	107	102	
High	604/6	112	48/48	3	14.5	--	205	195	159	154	
Thin/Wide 332	604e/2	332	64/64	.512	17.9			249		206	
High	604/8	112	64/64	4	19.2	5,774	258	244	200	189	
High	604e/2	200	32/32	2	9.3		137	121	92.5	90.3	
High	604e/4	200	64/64	4	17.0		268	244	183	176	
High	604e/6	200	96/96	6	23.8		396	343	261	248	
Thin/Wide P3	Power3/1	200	64/32	4	10.5			111		243	
Thin/Wide P3	Power3/2	200	128/64	8	21.0			222		468	
High	604e/8	200	128/128	8	30.6		509	445	332	320	
Thin/Wide 332	604e/4	332	128/128	1	32.8			490		366	

NOTES ON PERFORMANCE VALUES [\[top of page\]](#)

The performance benchmarks and the values shown here were derived using particular, well configured, development-level computer systems. Unless otherwise indicated for a system, the values were derived using 32-bit applications and external cache if external cache is supported on the system. All performance benchmark values are provided "as is" and no warranties or guarantees are stated or implied by IBM. Actual system performance may vary and is dependent upon many factors including system hardware configuration and software design and configuration. Buyers should consult other sources of information to evaluate the performance of systems they are considering buying and should consider conducting application-oriented testing. For additional information about the performance benchmarks, values, and systems tested, please contact your local IBM Branch Office or IBM Authorized Reseller or access the following on the Web:

For more information you can check these websites:

SPEC <http://www.specbench.org>

TPC <http://www.tpc.org>

Linpack <http://www.netlib.no/netlib/benchmark/performance.ps>

Unless otherwise indicated for a system, the performance benchmarks were conducted using AIX V4.2 or V4.3. IBM C for AIX V3.6.4.0 and XL Fortran V6.1.0.0 were the compilers used in the benchmark tests. The preprocessors used in the benchmark tests include KAP 3.2 for Fortran and KAP/C 1.4.2 from Kuck & Associates and VAST-2 V4.01X8 from Pacific-Sierra Research. The preprocessors were purchased separately from these vendors.

SPECint95: SPEC component-level benchmark that measures integer performance. Result is the geometric mean of eight tests that comprise the CINT95 benchmark suite. All of these are written in C language. SPECint_base95 is the result of the same tests in CINT95 with a maximum of four compiler flags that must be used in all eight tests. (Units are relative to SPARCstation 10, which has value of 1.0.)

SPECint_rate95: Geometric average of the eight SPEC rates from the SPEC integer tests (CINT95). SPECint_base_rate95 is result of the same tests as CINT95 with a maximum of four compiler flags that must be used in all eight tests.

SPECfp95: New SPEC component-level benchmark that measures floating point performance. Result is the geometric mean of ten tests, all written in FORTRAN, that are included in the CFP95 benchmark suite. SPECfp_base95 is the result of the same test in CFP95 with a maximum of four compiler flags that must be used in all ten tests.(Units are relative to SPARCstation 10, which has value of 1.0.)

SPECfp_rate95: Geometric average of the ten SPEC rates from SPEC floating-point tests (CFP95). SPECfp_base_rate95 is the result of the same tests as CFP95 with a maximum of four compiler flags that must be used in all ten tests.

LINPACK DP: Double precision, n=100 results with AIX XL FORTRAN compiler, with optimization. Units are megaflops (MFLOPS).

LINPACK SP: Single Precision, n=100 results with AIX XL FORTRAN compiler, with optimization. Units are megaflops (MFLOPS).

LINPACK TPP: Toward Peak Performance (TPP), n=1,000 results with AIX XL FORTRAN compiler, with optimization. Units are megaflops (MFLOPS).

SPECweb96 is the maximum number of HTTP operations per second achieved on the SPECweb96 benchmark without significant degradation of response time. The web server software is IBM HTTP Server 1.3.4 or Zeus V1.1 from Zeus Technology Ltd.

Rel. OLTP Perf - Relative OLTP performance is an estimate of commercial throughput using an IBM analytical model. This model simulates some of the system's operations of the CPU, caches, and memory in an OLTP environment but does not simulate the disk or network I/O operations. Although general database and operating systems parameters are used, the model does not represent specific databases or AIX versions. With these limitations, ROP may be used to compare RS/6000 performance. The model 250 is the reference system and has a value of 1.0.

The following Transaction Processing Council (TPC) benchmarks reflect the performance of the microprocessor, memory subsystem, disk subsystem, and some portions of the network:

"tpmC" - TPC Benchmark C throughput measured as the average number of transactions processed per minute during a valid TPC-C configuration run of at least twenty minutes.

\$/tpmC is TPC Benchmark C price-performance ratio where the estimated 5-year total cost of ownership for system hardware, software, and maintenance is divided by the throughput, tpmC. For complete disclosure information please see TPC Web page at <http://www.tpc.org>.

SPECint95 and **SPECfp95** are trademarks of the Standard Performance Evaluation Corporation. **KAP** is a trademark of Kuck Associates. **VAST-2** is a registered trademark of

Pacific Sierra Research Corporation. TPC-C is a registered trademark of the Transaction Processing Performance Council.

Notes on Performance Estimates:

Relative OLTP (ROLTP) is an estimate of commercial performance derived from an IBM analytical model. The model simulates some of the system's operations such as CPU, cache, and memory. However, the model does not simulate disk or network I/O operations. Although the model uses general database and operating system parameters, the model does not reflect specific databases or AIX versions or releases. Unless otherwise indicated for a system, the model assumes the use of 32-bit applications. Unless otherwise indicated for a system, ROLTP is estimated only at the time the system is introduced. An IBM RS/6000 Model 250 is the baseline reference system and has a value of 1.0. Although ROLTP may be used to compare estimated RS/6000 commercial processing performance, actual system performance may vary and is dependent upon many factors including system hardware configuration and software design and configuration. All performance benchmark values are provided "AS IS" and no warranties or guarantees are stated or implied by IBM. Buyers should consult other sources of information to evaluate the performance of systems they are considering buying.

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SPECS and Performance

Other sites links:

What is SPEC www.specbench.org

What is TPC www.tpc.org

What is LINPACK www.netlib.no/netlib/benchmark

Mod	PROC	MHz	L1 CACHE KB	L2 CACHE MB	Rel OLTP Perf	tpm	SPEC int_ rate95	SPECint base_ rate95	SPECfp_ rate95	SPECfp_ base_ rate95	SPEC web96 ops/sec
G40	604/2	112	32/32	1	4.8	-	66.5	60.6	53.3	-	-
G40	604/4	112	64/64	2	8.8	-	122	110	-	-	-
G40	604e/2	187	32/32	2	6.6	-	129	113	87.1	80.7	-
G40	604e/4	187	64/64	4	10.9	-	254	217	154	149	-
J30	601/2	75	32	1	4.7	1400	42.3	39.7	47.4	46.4	-
J30	601/4	75	64	2	7.8	2350	83	78.2	91.3	89.3	-
J30	601/6	75	96	3	10.7	3200	125	117	134	133	-
J30	601/8	75	128	4	12.1	3630	162	153	172	165	-
J40	604/2	112	16/16	1	5.3	-	71.9	64.9	57.3	53.4	-
J40	604/4	112	32/32	2	9.8	-	138	129	107	102	-
J40	604/6	112	48/48	3	14.5	-	205	195	159	154	-
J40	604/8	112	64/64	4	19.2	5774*	258	244	200	189	-

7008	7011	7011	7009
M20/220	230	250/W/S/T	C10

Processor	*	*	2	2
Clk (MHz)	33.3	33.3	66	80

SPECint92	20.4	28.5	62.6	78.8
SPECfp92	29.1	39.5	72.2	100.0
tpmC	NA	115.2	310.5	405
K\$/tpmC	NA	2.1	1.2	-

MFLOPS:

Linpack DP	6.6	6.6	12.7	20.3
Linpack SP	8.4	8.4	19.5	24.9
Linpack TPP	13.9	13.9	33.9	42.4

* IBM POWER Architecture

² IBM POWER Architecture

	41T	41W	M20/220	230	250/25S	C10
Processor			*	*	2	2
Clk (MHz)	80	80	33.3	33.3	66	80
SPECint92	78.8	88.1	20.4	28.5	62.6	78.8
SPECfp92	90.4	98.7	29.1	39.5	72.2	100.0
tpmC			NA	115.2	310.5	405
K\$/tpmC			NA	2.1	1.2	-
MFLOPS:		20.1				
Linpack DP			6.6	6.6	12.7	20.3
Linpack SP			8.4	8.4	19.5	24.9
Linpack TPP			13.9	13.9	33.9	42.4

* IBM POWER Architecture

² IBM POWER Architecture

	320	32H	340	34H	355	350	360 365/36T	370 375/37T
Processor	*	*	*	*	*	*	*	*
Clk (MHz)	20	25	33.3	42	41.6	41.6	50.00	62.5
SPECint92	15.9	21.5	27.9	48.1	40.5	35.4	48.4	70.3
SPECfp92	53.1	45.3	58.7	83.3	81.6	74.2	97.0	121.1
tpmC	-	-	-	-	-	-	-	-
K\$/tpmC	-	-	-	-	-	-	-	-
MFLOPS								
Linpack DP	-	11.8	15.0	18.8	18.8	18.8	22.2	25.9
Linpack SP	-	14.9	19.7	24.8	-	24.7	29.6	36.7
Linpack TPP	-	37.1	48.8	61.3	-	61.2	73.0	89.6

* IBM POWER Architecture

² IBM POWER Architecture

	380	390
Processor	2	2
Clk (MHz)	59	67
SPECint92	99.3	114.3
SPECfp92	187.2	205.3
tpmC	-	-
K\$/tpmC	-	-

MFLOPS		
Linpack DP	49.7	55.1
Linpack SP	64.7	73.0
Linpack TPP	166.8	182.8

* IBM POWER Architecture

² IBM POWER Architecture

	520	52H	530	53H	540	550
Processor	*	*	*	*	*	*
Clk (MHz)	20	25.0	25.0	33.3	30	41.6
SPECint92	-	21.5	20.1	28.5	-	36.2
SPECfp92	52.9	45.3	72.5	64.6	-	81.8
tpmC	-	-	-	-	-	-
K\$/tpmC	-	-	-	-	-	-
MFLOPS						
Linpack DP	-	11.9	-	20.5	-	25.8
Linpack SP	-	14.9	-	22.3	-	27.9
Linpack TPP	-	37.1	-	55.3	-	69.6

* IBM POWER Architecture

² IBM POWER Architecture

	55L	560	570	580	58H	590
Processor	*	*	*	*	²	²
Clk (MHz)	41.6	50.0	50.0	62.5	55.0	66
SPECint92	48.1	43.2	48.4	61.7	97.6	121.4
SPECfp92	81.8	97.6	97.0	133.2	203.9	254.2
tpmC	324.5	-	395.6	NA	NA	726.1
K\$/tpmC	2.0	-	2.0	NA	NA	1.6
MFLOPS						
Linpack DP	25.8	31.3	22.2	38.1	-	131.0
Linpack SP	27.9	33.5	29.7	42.1	-	73.1
Linpack TPP	69.6	-	73.0	103.8	-	236.6

* IBM POWER Architecture ² IBM POWER Architecture

	59H	730	930	950	970	97B	980
Processor	²	*	*	*	*	*	*
Clk (MHz)	66	25	25.0	41.6	50.0	50.0	62.5
SPECint92	121.4	20.1	20.1	36.3	47.8	58.8	59.2
SPECfp92	250	72.5	72.5	81.8	101.0	108.9	124.8
LINPACK DP		-	-	25.9	31.0	-	38.1
LINPACK SP		-	-	27.8	33.6	-	42.1
TPP		-	-	69.5	83.6	-	103.8
MFLOPS	132	15.2	15.2	25.2	19.1	31.0	-
tpsA	73.1	-	-	-	-	100.9	-
K\$/tpsA	227.1	-	-	-	-	10.7	-

* IBM POWER Architecture

² IBM POWER2 Architecture

	98B	990	3AT	3BT with L2
Processor	*	²		
Clk (MHz)	62.5	66.0		
SPECint92	73.3	126.0	99.3	109.7
SPECfp92	134.6	260.0	187.2	202.1 205.3
	-	-		
	-	-		
	-	-		
	-	-		
	-	-		
MFLOPS				
Linpack DP	38.1	140.3		
Linpack SP	160.3	NA		
Linpack TPP	10.1	NA		

* IBM POWER Architecture
 2 IBM POWER2 Architecture

120 130 140 150

CACHE(KB)

Data	-	-	-	8
Instruction	-	-	-	8

MEMORY

Std(MB)	1	2.5	4.0	6.0
Max(MB)	8.5	16.5	68.0	70.0
Video Std.	0.5	0.5	2.0	2.0
Video Max.	1.0	1.0	2.0	2.0

DASD

			**	**
Std(MB)	0	30MB	2	2
Max(GB)	0	30MB	6	6

I/O SLOTS

Available	1	*	1	*	1*	1*
Mem Slots						

**Flash memory

* Optional token-ring only

41T 41W M20 M20 220 230 250

CACHE(KB)

	2	2				2
Data			8	8	8	32
Instruction			8	-	-	-

MEMORY

Std(MB)	16	16	16	16	16	16
Max(MB)	256	256	64	64	64	256

DASD

Std(MB)	540	540	0	0.0	0.0	0.0
Max(GB)	3	3	0	2.0	2.0	2.0

I/O SLOTS

Available	4	4	1	2	2	2
Mem Slots			8	8	8	8

2 IBM PowerPC Architecture 601

320 32H 340 340H 350 355 360 36T 365 370 37T 375

CACHE(KB)

Data	32	32	32	32	32	32	32	32	32	32	32	32
Instruction	8	8	8	32	8	32	32	32	32	32	32	32

MEMORY

Std(MB)	8	16	16	16	32	16	16	16	16	32	32	32
Max(MB)	128	128	128	128	128	128	256	256	128	256	256	128

DASD

Std	160	400	160	0.54	160	400	400	540	540	540	540	540
Max(GB)	0.8	2.0	2.0	4.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
With RAID(GB)	-	-	-	237	-	100	237	205	100	237	205	100

I/O SLOTS

Available	4	4	4	4	4	1	4	3	1	4	3	1
Mem Slots	2	2	2	2	2	1	2	2	1	2	2	1

520 52H 530 53H 540 550 55L 560 570 580 58H 590

CACHE(KB)

Data	32	32	64	64	64	64	32	64	32	64	256	256
Instruction	8	8	8	32	8	8	32	8	32	32	32	32
Bus	-	-	-	-	-	128	64	-	64	128	256	256

MEMORY

Std(MB)	16	16	32	32	64	64	64	64	32	64	64	64
Max(MB)	512	512	512	512	256	512	256	512	1GB	1GB	2GB	2GB

DASD

Std(MB)	355	400	355	400	640	800	2.0	800	2.0	2.0	2.0	2.0
Max(GB)	2.5	2.5	2.5	2.5	2.5	2.5	12.0	12.0	12.0	12.0	12.0	12.0
with RAID(MB)	-	-	-	-	-	460	396	460	460	460	460	460

I/O SLOTS

Available	7	7	7	7	7	8	4	8	8	7*	7*	7*
Mem Slots	8	8	8	8	8	8	2	8	8	8	8	8

* 1 slot used by SCSI-2 High-Performance internal controller

² POWER2 implementation

730 930 950 970 970B 980 980B 990

CACHE(KB)

Data	64	64	64	32	64	64	64	64	256
Instruction	8	8	8	8	32	32	32	32	32
Bus	-	-	-	-	128	128	128	128	128

MEMORY

Std(MB)	16	32	64	64	128	64	128	128
Max(MB)	512	512	512	512	1GB	1GB	2GB	2GB

DASD

Std	355	670	1.7G	2.7G	4.0G	4.0G	4.0G	4.0G
Max(GB)	2.5	12	12	243.0	243.0	243.0	243.0	243.0
WITH RAID(GB)	-	-	-	840.0	840.0	840.0	840.0	840.0

I/O SLOTS

Available	6	7	7	7	15	15	15	15
Mem Slots	8	8	8	8	8	8	8	8

² POWER2 implementation

SPECint92: Geometric mean of six integer tests which comprise the CINT92 benchmark suite. All of these are written in C language.

SPECfp92: Geometric mean of 14 tests that represent the CFP92 benchmark suite. Five of the tests are single precision while the remaining nine are double precision. Two tests are written in C language and the rest are written in Fortran.

SPECmark89: Geometric mean of the ten SPECmark tests. AIX XL Fortran and AIX XL C compilers were used for these tests.

SPECint89: Geometric mean of four integer tests which include gcc, espresso, li and eqntott. These tests are written in C.

SPECfp89: Geometric mean of 6 floating point tests including spice2g6, doduc, matrix300, fpppp and tomcatv SPEC Ratios. These tests are written in Fortran.

LINPACK DP: Double precision, n=100 results with AIX XL Fortran compiler, with optimization. Units are megaflops.

LINPACK SP: Single Precision, n=100 results with AIX XL Fortran compiler, with optimization. Units are megaflops.

LINPACK TPP: Toward Peak Performance (TPP), n=1,000 results with AIX Fortran compiler, with optimization. Units are megaflops.

TPC-A is simple transaction-orientred benchmark (by Transaction Processing Performance Council), transactions per seconde (tpsA)

TPC-C more complex, transaction-orientred benchmark (by Transaction Processing Performance Council), transactions per minute (tpmC)

LOCATION

Software Location Code

NON-SCSI DEVICE
 01 - 07 - 01 - 00
 | | | |
 Drawer | | | |
 | | | |
 Slot | Port
 Connector

9333 DISK DRIVE SUBSYSTEM

Always 0

 || | | | |
 || | | | |
 00-08-03-03
 | | |
 | | |_ Compartment number 0-3
 | | |_ Adapter connector 0-3
 |
 Adapter slot 1-8 in CPU Drawer or System Unit

SCSI DEVICE

Always 0

 || | | | |
 || | | | |
 00 - 07 - 00 - 00
 | | |
 | | |_ SCSI address of the device. Appendix A
 | | |_ of Installation and Service Guide
 |
 Slot number of the SCSI controller (DBA 7=rear 8=front)

RSPS Architecture

AB-CD-EF-GH non-SCSI
 G,H SCSI

For planars, cards, and non-SCSI devices the location code is defined as:

AB-CD-EF-GH
 | | | |
 | | | |
 | | | | Devices/FRU/Port ID
 | | | | Connector ID
 | | | | Slot or Adapter Number
 Bus Type

Possible values for AB are as follows:

- 00 for processor bus
- 01 for ISA buses
- 04 for PCI buses
- 05 for PCMCIA buses (not supported on 7024)

Last updated 10 Oct 1997

With the arrival of the 7025-F50, location codes are now a jungle.
Here are some common examples:

Integrated PCI adapter

- 10-80 Ethernet
- 10-60 Integrated SCSI Port 1
- 30-58 Integrated SCSI Port 2

Pluggable PCI adapter

- 20-58 to 20-5F Any PCI card in slot 1
- 20-60 to 20-6F Any PCI card in slot 2
- 10-68 to 10-6F Any PCI card in slot 3
- 10-70 to 10-77 Any PCI card in slot 4
- 10-78 to 10-7F Any PCI card in slot 5
- 30-60 to 30-67 Any PCI card in slot 6
- 30-68 to 30-6F Any PCI card in slot 7
- 30-70 to 30-77 Any PCI card in slot 8
- 30-78 to 30-7F Any PCI card in slot 9

Integrated ISA adapter:

- 01-D1 Diskette adapter
- 01-R1 Parallel port adapter
- 01-S1 Serial port 1 adapter
- 01-S2 Serial port 2 adapter
- 01-S3 Serial port 3 adapter
- 01-K1 Keyboard adapter

7025-F50 Location

Name	Location
Integrated SCSI #1	10-60
Integrated SCSI #2	30-58
External SCSI connector	30-58
Integrated Ethernet	10-80
Slot 1 PCI	20-58 to 20-5F
Slot 2 PCI	20-60 to 20-67
Slot 3 PCI	10-68 to 10-6F
Slot 4 PCI	10-70 to 10-77
Slot 5 PCI	10-78 to 10-7F
Slot 6 PCI	30-60 to 30-67
Slot 7 PCI	30-68 to 30-6F
Slot 8 PCI	30-70 to 30-77
Slot 8 ISA	01-01 or 01-02
Slot 9 PCI	30-78 to 30-7F
Slot 9 ISA	01-01 or 01-02

April 29 1999 BJ Croft

7025-F80 Location

Name	Resource Name	Location		
Processor	proc2	00-02		
Processor	proc4	00-02		
Processor	proc6	00-02		
Processor	proc8	00-02		
Processor	proc10	00-02		
Intrn Intgr Wide/Ultra-2 SCSI	scsi0	11-08		
External Wide/Ultra-2 SCSI	scsi1	11-09		
Integrated Ethernet 10/100	entX	21-08		
2-Pack DASD drive top	hdisk0	11-08-00-2,0	P1-Z1-A2	D14
2-Pack DASD drive bottom	hdisk1	11-08-00-4,0	P1-Z1-A4	D13
Tape Drive	rmt0	11-08-00-0,0	P1-Z1-A0	
CD-ROM Drive	cd0	11-08-00-1,0	P1-Z1-A1	
ISA bus	isa0	10-80		
Host Bridge Bus 1	pci0	00-fff7f09000		
Host Bridge Bus 2	pci1	00-fff7f0a000		
Slot 1 Parallel port	ppa0	01-R1		
Slot 2 PCI to PCI Bridge 1	pci2	10-58		
Slot 3 PCI bus Bridge 1 Device	pci3	10-5A		
		1A-08 to 1A-0F		
		1B-xx		
		1C-xx		

Slot 4	PCI bus Bridge 1 Device	pci4	10-5C 17-08 to 17-0F 18-XX 19-XX
--------	-------------------------	------	---

Slot 5	PCI bus Bridge 1 Device	pci5	10-5E 14-08 to 14-0f 15-XX 16-XX
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Slot 6	PCI bus Bridge 2 Device	pci6	20-5A 2D-08 to 2D-0F 2E-xx 2F-xx
--------	-------------------------	------	---

Slot 7	PCI bus Bridge 2 Device	pci7	20-5C 2A-08 to 2A-0F 2B-XX 2C-XX
--------	-------------------------	------	---

Slot 8	PCI bus Bridge 2 Device	pci8	20-5E 27-08 to 27-0F 28-xx 29-xx
--------	-------------------------	------	---

Slot 9	PCI bus Bridge 3 Device	pci9	20-60 3A-08 to 3A-0F 3B-xx 3C-xx
--------	-------------------------	------	---

Slot 10	PCI bus Bridge 3 Device	pci10	20-62 37-08 to 37-0F 38-xx 39-xx
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Slot 11 PCI bus Bridge 3 Device	pci11	20-64 34-08 to 34-0F 35-xx 36-xx
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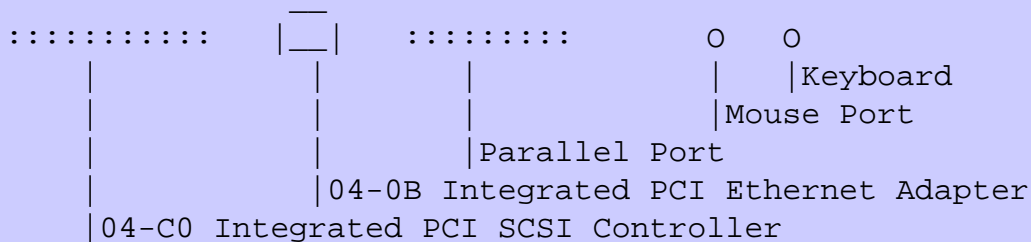
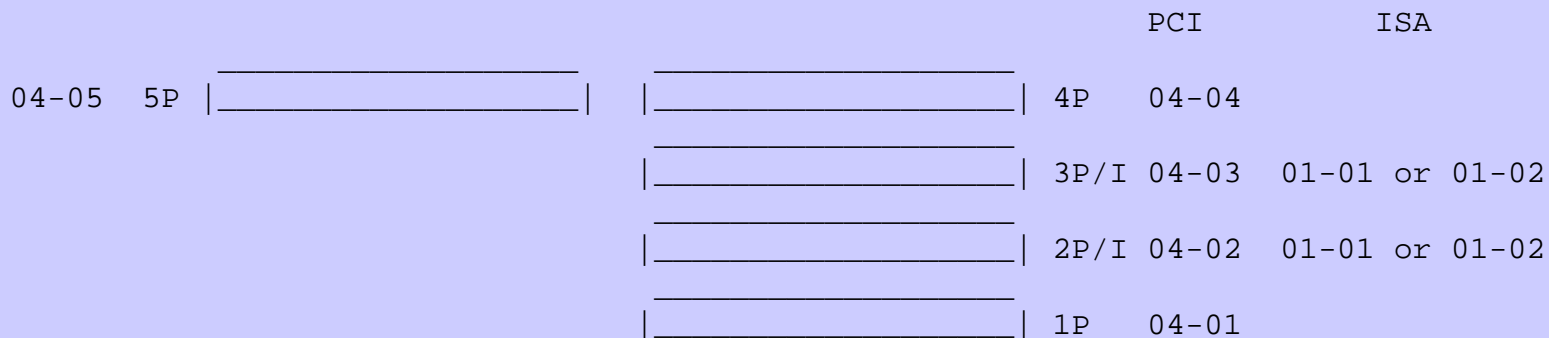
Slot 12 PCI bus Bridge 3 Device	pci12	20-66 31-08 to 31-0F 32-xx 33-xx
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Updated Dec 2003 BJ Croft

7043-140 Location

LOC	Real Identification	VPD
04-C0	Integrated PCI SCSI Controller	Wide SCSI/O Controller
04-B0	Integrated PCI Ethernet Adapter (22100020)	Same
04-01	Slot 1 PCI	
04-02	Slot 2 PCI	
04-03	Slot 3 PCI	
04-04	Slot 4 PCI	
04-05	Slot 5 PCI	
01-01	1st ISA Defined/Configured	
02-02	2nd ISA Defined/Configured	

7043-140 REAR VIEW



04/29/99 BJ Croft

7043-150 Location

AIX loc	Real
1P-08	slot 1 P1.1-I1
10-b0	slot 2 P1.1-I2
10-90	slot 3 P1.1-I3
1P-18	slot 4 P1.1-I4
1P-10	slot 5 P1.1-I5
10-80	Integrated SCSI

Created Dec 21 by Bruno Croft

Updated Jan 16 2001

7044-170 Location

LOCATION	Identification
10-60	SCSI #1 integrated internal J30
10-61	SCSI #2 Integrated external J55
10-80	AUI Integrated Ethernet J4
20-58 to 20-5F	Slot 1 PCI
20-60 to 20-67	Slot 2 PCI
10-68 to 10-6F	Slot 3 PCI
10-70 to 10-77	Slot 4 PCI
10-78 to 10-7F	Slot 5 PCI
10-88 to 10-8F	Slot 6 PCI
01-01 to 01-02	Slot 8 ISA or 9 ISA

JUNE 05 2000 by Bruno Croft

7026-H70 Location

LOCATION	Identification
10-60	Integrated SCSI #1
30-58	Integrated SCSI #2
30-58	External SCSI connector
10-80	Integrated Ethernet
20-58 to 20-5F	Slot 1 PCI
20-60 to 20-67	Slot 2 PCI
10-68 to 10-6F	Slot 3 PCI
10-70 to 10-77	Slot 4 PCI
40-58 to 40-5F	Slot 5 PCI
40-60 to 40-67	Slot 6 PCI
30-68 to 30-6F	Slot 7 PCI
30-70 to 30-77	Slot 8 PCI
01-01 to 01-02	Slot 8 ISA or 9 ISA

March 14 2001 BJ Croft

7026-H80 6H0 6H1 Location

Independant PCI buses for each 14 slots

LOCATION

Identification

40-60	Integrated SCSI - to disks, Internal CDROM, Tape
40-58	Integrated Ethernet
40-61	External SCSI ctrl

Primary IO drawer U0.1

Slot

1	PCI 64-bit	11-08 to 11-0F	12-xx	13-xx
2	PCI 64-bit	14-08 to 14-0F	15-xx	16-xx
3	PCI 64-bit	17-08 to 17-0F	18-xx	19-xx
4	PCI 64-bit	1A-08 to 1A-0F	1B-xx	1C-xx
5	PCI 64-bit	21-08 to 21-0F	22-xx	23-xx
6	PCI	24-08 to 24-0F	25-xx	26-xx
7	PCI	27-08 to 27-0F	28-xx	29-xx
8	PCI 64-bit	2A-08 to 2A-0F	2B-xx	2C-xx
9	PCI 64-bit	2D-08 to 2D-0F	2E-xx	2F-xx
10	PCI 64-bit	31-08 to 31-0F	32-xx	33-xx
11	PCI	34-08 to 34-0F	35-xx	36-xx
12	PCI	37-08 TO 37-0F	38-xx	39-xx
13	PCI 64-bit	3A-08 to 3A-0F	3B-xx	3C-xx
14	PCI 64-bit	3D-08 to 3D-0F	3E-xx	3F-xx

Secondary I/O drawer U0.2

Slot

1		51-08 to 51-0F	52-xx	53-xx
2		54-08 to 54-0F	55-xx	56-xx
3		57-08 to 57-0F	58-xx	59-xx
4		5A-08 to 5A-0F	5B-xx	5C-xx
5		61-08 to 61-0F	62-xx	63-xx
6		64-08 to 64-0F	65-xx	66-xx
7		67-08 to 67-0F	68-xx	69-xx
8		6A-08 to 6A-0F	6B-xx	6C-xx
9		6D-08 to 6D-0F	6E-xx	6F-xx
10		71-08 to 71-0F	72-xx	73-xx

11	74-08	to	74-0F	75-xx	76-xx
12	77-08	to	77-0F	78-xx	79-xx
13	7A-08	to	7A-0F	7B-xx	7C-xx
14	7D-08	to	7D-0F	7E-xx	7F-xx

Third I/O drawer U0.3

slot

1	91-08	to	91-0F
2	94-08	to	94-0F
3	97-08	to	97-0F
4	9A-08	to	9A-0F
5	A1-08	to	A1-0F
6	A4-08	to	A4-0F
7	A7-08	to	A7-0F
8	AA-08	to	AA-0F
9	AD-08	to	AD-0F
10	B1-08	to	B1-0F
11	B4-08	to	B4-0F
12	B7-08	to	B7-0F
13	BA-08	to	BA-0F
14	BD-08	to	BD-0F

Fourth I/O Drawer U0.4

slot

1	D1-08	to	D1-0F
2	D4-08	to	D4-0F
3	D7-08	to	D7-0F
4	DA-08	to	DA-0F
5	E1-08	to	E1-0F
6	E4-08	to	E4-0F
7	E7-08	to	E7-0F
8	EA-08	to	EA-0F
9	ED-08	to	ED-0F
10	F1-08	to	F1-0F
11	F4-08	to	F4-0F
12	F7-08	to	F7-0F
13	FA-08	to	FA-0F
14	FD-08	to	FD-0F

July 2003 BJ Croft

7028-6C1 6E1 Location Codes

LOCATION	Identification
Slot	
Internal SCSI	10-60 P1/Z1
External SCSI	10-61 P1/Z2
CDROM IDE	10-59 P1/Q1-A2 Bay 3
Ethernet 1	10-80 P1/E1
Ethernet 2	10-88 P1/E2
SCSI Bay D01	10-60-00-0,0
SCSI Bay D02	10-60-00-1,0
SCSI Bay D03	10-60-00-2,0
PCI Host Bridge	00-FEE00000
Slot	
1 20-58 to 20-5F	2B-xx P1-I1
2 20-60 to 20-67	2C-xx P1-I2
3 10-68 to 10-6F	1D-xx P1-I3
4 10-70 to 10-77	1E-xx P1-I4
5 10-78 to 10-7F	1F-xx P1-I5

Oct 2002 BJ Croft

7028-6C4 6E4 AIX and Physical Location Code Table

Component Name	Physical Location Code	AIX Location Code
Central Electronics Complex (CEC)		
Rack Frame	U0	
CEC Drawer	U0.1	
CEC Backplane	U0.1-P1	
PCI Riser Card	U0.1-P2	
Disk Drive Backplane	U0.1-P3	
Processor Cards		
Processor Card 1	U0.1-P1-C1	
Processor Card 2	U0.1-P1-C2	
Memory DIMMs on Processor Card 1		
Memory DIMM 1	U0.1-P1-C1-M1	
Memory DIMM 2	U0.1-P1-C1-M2	
Memory DIMM 3	U0.1-P1-C1-M3	
Memory DIMM 4	U0.1-P1-C1-M4	
Memory DIMM 5	U0.1-P1-C1-M5	
Memory DIMM 6	U0.1-P1-C1-M6	
Memory DIMM 7	U0.1-P1-C1-M7	
Memory DIMM 8	U0.1-P1-C1-M8	
Memory DIMMs on Processor Card 2		

Memory DIMM 1	U0.1-P1-C2-M1
Memory DIMM 2	U0.1-P1-C2-M2
Memory DIMM 3	U0.1-P1-C2-M3
Memory DIMM 4	U0.1-P1-C2-M4
Memory DIMM 5	U0.1-P1-C2-M5
Memory DIMM 6	U0.1-P1-C2-M6
Memory DIMM 7	U0.1-P1-C2-M7
Memory DIMM 8	U0.1-P1-C2-M8

Integrated Devices

Parallel Port	U0.1-P1/R1	01-R1
ISA Bus	U0.1-P1	1G-18
HMC2 Connector	U0.1-P1/S5	
HMC1 Connector	U0.1-P1/S4	
SPCN2 Connector	U0.1-P1/Q5	
SPCN1 Connector	U0.1-P1/Q4	
Keyboard Connector	U0.1-P1/K1	01-K1-00
Keyboard	U0.1-P1/K1-K1	01-K1-00-00
Mouse Connector	U0.1-P1/O1	01-K1-01
Mouse	U0.1-P1/O1-O1	01-K1-01-00
Ethernet Connector 1	U0.1-P1/E1	14-08
Ethernet Connector 2	U0.1-P1/E2	1L-08
RIO-G1 Connector	U0.1-P1/Q3	
RIO-G0 Connector	U0.1-P1/Q2	
Rack Indicator (USB Connector)	U0.1-P1/Q1	
Serial Connector 1	U0.1-P1/S1	01-S1
Serial Connector S1F (Located on Operator Panel)	U0.1-P1/S1	01-S1
Serial Connector 2	U0.1-P1/S2	01-S2
Serial Connector 3	U0.1-P1/S3	01-S3
Diskette Port	U0.1-P1/D1	01-D1
Diskette	U0.1-P1-D1	01-D1-00-00
CD-ROM (IDE)	U0.1-P1/Q6-A0	1G-19-00
Base CD-ROM (IDE) Controller	U0.1-P1/Q6	1G-19

Pluggable Adapters

PCI Host Bridge 0	U0.1-P2	
PCI Host Bridge 1	U0.1-P2	
PCI Slot 1	U0.1-P2/I1	
PCI Slot 1 Card	U0.1-P2-I1	1V-08
PCI Slot 2	U0.1-P2/I2	
PCI Slot 2 Card	U0.1-P2-I2	1H-08
PCI Host Bridge 2	U0.1-P2	
PCI Slot 3	U0.1-P2/I3	
PCI Slot 3 Card	U0.1-P2-I3	1D-08
PCI Slot 4	U0.1-P2/I4	
PCI Slot 4 Card	U0.1-P2-I4	11-08

SCSI Devices

Internal SCSI Port (for internal Disk Drive)	U0.1-P2/Z1	1S-08
External SCSI Port	U0.1-P2/Z2	1S-09
Media Device #1 (for example, a Tape Drive)	U0.1-P2-Ix/Zn-A0	Dependent on Ix
Media Device #2 (for example, a DVD Drive)	U0.1-P2-Ix/Zn-A1	Dependent on Ix
Hot-swap Disk Drive bay 1	U0.1-P2/Z1-A8	1S-08-00-8,0
Hot-swap Disk Drive bay 2	U0.1-P2/Z1-A9	1S-08-00-9,0
Hot-swap Disk Drive bay 3	U0.1-P2/Z1-AA	1S-08-00-10,0
Hot-swap Disk Drive bay 4	U0.1-P2/Z1-AB	1S-08-00-11,0

Fans

Fan 1 (Primary Processor Fan)	U0.1-F1
Fan 2 (Redundant Processor Fan)	U0.1-F2
Fan 3 (PCI Fan)	U0.1-F3
Fan 4 (PCI Fan)	U0.1-F4

Operator Panel

Operator panel	U0.1-L1
----------------	---------

Power Supply

Power supply 1 (Primary)	U0.1-V1
Power supply 2 (Redundant)	U0.1-V2

Battery

Battery U0.1-P1-V3

Platform Firmware

Platform Firmware	U0.1-P1/Y1
-------------------	------------

System VPD module

System VPD module	U0.1-L1-N1
-------------------	------------

Oct 2002 BJ Croft

LOCATION 7033-D40/T40

AB - CD - EFGH - IJ

||	||	||||	||	___ Disk drive module number 1 to 16.
||	||	||||	_____	Enclosure ID *
||	||		_____	Adapter Position. Number of the slot 1 through 8
||	||		_____	System I/O Bus Identifier
||			_____	Expansion Adapter position
|			_____	Expansion Drawer

Enclosure ID is a four-character display that can be set by the 3 ID push buttons. For example, on a rack-mounted Model D40, you can use two digits to show the ID of the rack, and two digits to show the ID of the 7133, while on a Model T40, you can use all four digits to show the ID of the 7133. You can set the ID display to represent whatever you require. The resulting ID must, however, be unique.

Updated: March 2003 by BJ Croft

9076-332MHz Silver

Name	Location	Thin	Wide	ID
Integrated SCSI	10-60	10-60		ID00
No external SCSI connector				
Integrated Ethernet	10-80	10-80		ID00
Slot I1 css0	00-f100000 TB3MX switch			
Slot I1		20-58 to 20-5F	64-bit	ID01
Slot I2 PCI	10-70	32-bit	20-60 to 20-67	64-bit ID01
Slot I3 PCI	10-68	32-bit	20-68 to 20-6F	64-bit ID00
pci0	00-fef00000			
pci1	00-fed00000			
pci2 riser card	20-78			
Slot I4 PCI		20-70 to 20-77	32-bit	ID00
Slot I5 PCI		2F-00 to 2F-07	32-bit	ID02
Slot I6 PCI		2F-08 to 2F-0F	32-bit	ID02
Slot I7 PCI		2F-10 to 2F-17	32-bit	ID02
Slot I8 PCI		2F-18 to 2F-1F	32-bit	ID02

March 22 2001 BJ Croft

9076-SMP Winterhawk I & II

Name	Thin	Location
Wide		
Integrated SCSI Wide		10-68
No external SCSI connector		
Integrated Ethernet		10-60
Slot I1 css0		00-fb000000 TB3MX2 switch
Slot I1		20-58 to 20-5F 64-bit
Slot I2 PCI	10-80 32-bit	20-60 to 20-67 64-bit
Slot I3 PCI	10-78 32-bit	20-68 to 20-6F 64-bit
Slot I4 PCI		20-70 to 20-77 64-bit
Slot I5 PCI		30-58 to 30-5F 64-bit
Slot I6 PCI		30-60 to 30-67 64-bit
Slot I7 PCI		30-68 to 30-6F 64-bit
Slot I8 PCI		30-70 to 30-77 64-bit

March 22 2001 BJ Croft

RULES OF THUMB FOR PAGING SPACE

QUESTION:

I have heard different versions of "rules of thumb" for paging space. I have heard both 2X and 3X real memory, spread evenly over all the PVs. When you get into very large memory sizes, or very large numbers of disks, does this still apply? I specifically am looking for a recommendation for how much paging space I should have for a 64MB system with 11 PVs. If I use the rules of thumb, I would put somewhere between 8 and 20MB on each disk - does that sound right? I realize like most things that this is all very dependent on what my system is doing, but if you could just help me with what the latest and greatest rules of thumb for paging space are, I'd appreciate it. Comments on large amounts of memory systems and/or large numbers of disks would help me too.

A: There is no such thing as the "right" amount of paging space for a system. The paging space requirements are unique for each system, depending on such things as which applications are running and/or the number of active users.

There are several "rules of thumb" used to determine how to create your paging space:

Rule 1:

The install process will create paging space equal to two times memory (2X) for systems with less than 64MB of RAM. For systems with 64MB of RAM or more, the paging space will be RAM size + 16MB. Please note that while this may be applicable to some computing environments, it may not be enough paging space for others.

Rule 2:

Set paging space equal to two times RAM. However, systems with large amounts of memory typically do not need such large amounts of paging space.

Rule 3:

The "twice RAM rule" is a good starting point for systems with 256MB of RAM or less. Use the following equation for systems with more than 256MB of RAM:

$$\text{Page Space} = 512 + (\text{RAM} - 256) * 1.25$$

Things to consider when creating or enlarging paging space:

Consideration 1:

Do not put more than one paging space on a physical volume.

Reason for Consideration 1:

All processes that are started during the boot process are allocated paging space on hd6. After the additional paging spaces are activated, paging space is allocated in a "round robin" manner in 4KB "chunks". If you have paging space on multiple physical volumes and you put more than one paging space on a physical volume, you will no longer be spreading your paging activity over multiple physical volumes.

Consideration 2:

Do not spread paging space over multiple physical volumes.

Reason for Consideration 2:

If your paging space is spread over multiple drives, you will not be spreading your paging activity across all of your physical volumes. Add a new paging space on a different physical volume.

Consideration 3:

Make paging space a similar size as much as possible.

Reason for Consideration 3:

If you have paging spaces of different sizes, when the smaller ones becomes full, you will no longer be

spreading your paging activity across your physical volumes.

Consideration 4:

Avoid putting a paging space on the same volume as a heavily active logical volume, such as that used by a database.

Reason for Consideration 4:

It is not necessary to put a paging space on each physical volume.

How will you know if you need more paging space?

1. A message presented on the console which says "INIT: Paging space is low".
2. Applications will abort with the message, "Not enough memory".
3. Use of the AIX command 'lspcs -a' shows a high percent used for paging space. This percent will typically be over 50 .
4. Other AIX command which can be used for performance tuning and analysis are:

iostat - Reports CPU and I/O statistics

vmstat - Reports statistics about processes, virtual memory, disks, faults, and CPU activity

svmon - Memory and page space used by all processes

rmss - Simulate the amount of memory available for paging analysis

Finally, do not put a paging space on a removable disk drive. The system will crash if the disk is removed.

AIX v3.2 Installp Changes

Version	Installp PTFs
3.2.0	U401864
3.2.1	U402346 & U402637
3.2.2 early	U403173
3.2.2 late	U406852
3.2.3 base	U409490
3.2.3 extended	U411711

Application Installation Utilities (update_all)	
3.2.5.0	U422467
3.2.5.1 enh6	U444234

Maintenance Level Update Utilities	
3.2.5.1 enh6	U437401

How to delete several SSA hdisks

```
>for i in $(lsdev -Cc disk | grep SSA | awk '{print $1}')
>do
>rmdev -dl $i
>done
```

How to delete all pdisks

```
>for i in $(lsdev -C | grep pdisk | awk '{print $1}')
>do
>rmdev -dl $i
>done
```

Created: Aug 02 2001 by BJ Croft

How to set a system on UPS to automatically reboot after a power outage

- 1) Ensure you have the latest firmware version installed. Some earlier level of firmware are not supporting this function.
- 2) The software that initiate the shutdown after the power failure must have the -p flag of the shutdown command set. This will put the system in stand by mode (STBY in LED for a F50) instead of power off (OK in the LED).
- 3) Enable Unattended Start Mode in the SMS menu or in diag:
 - Diag
 - Enter
 - Task Selection
 - Configure Reboot Policy
 - Enable Unattended Start Mode (1=Yes, 0=No) [1]

If you test this without a UPS and this is a model that uses redundant power supplies, it may be needed to unplug more than one power supply simultaneously to simulate a real loss of power.

Created: Dec 17 2001 by BJ Croft

To start:

```
portmir -t /dev/tty0
```

To stop:

```
portmir -o ( on another session )
```

bootinfo -K reports whether the system is running a 32-bit or a 64-bit kernel

- AIX4.3 has only a 32-bit kernel

- AIX5.1 has both 32-bit and 64-bit kernels. Only one [1] can be active on a system [or within a LPAR] at a time.

bootinfo -y reports whether the CPU is 32-bit or 64-bit.

Command to tell if an executable is 32 or 64bit:

```
dump -ov filename | grep bit
```

COMPATIBILITY OPTIONS:

	Appl User Mode	System Kernel Mode	Hrdw	Compatible
	-----	-----	-----	-----
Option 1:	32-bit	32-bit	32-bit	Note #6
Option 2:	32-bit	32-bit	64-bit	Note #1 Note #6
Option 3:	32-bit	64-bit	32-bit	Note #2 Note #6
Option 4:	32-bit	64-bit	64-bit	Note #5 Note #6
Option 5:	64-bit	32-bit	32-bit	Note #2
Option 6:	64-bit	32-bit	64-bit	Note #1 Note #4

Option 7:	64-bit	64-bit	32-bit	Note #2
Option 8:	64-bit	64-bit	64-bit	Note #3
				Note #4
				Note #5
				Note #6

Note 1: Requires AIX4.3 or later.

Note 2: Invalid - not possible to run a 64-bit kernel on 32-bit hardware.

Note 3: Requires AIX5.1 or later.

Note 4: 64-bit user-space appls:

bos.64bit fileset must be installed and activated using the command:
"smit load64bit"

AIX4.3 64-bit appls are not supported on AIX5.1. They must be recompiled.

Note 5: The AIX5.1 32-bit kernel is default.

The AIX5.1 64-bit kernel is optional.

The AIX5.1 64-bit kernel is installed on 64-bit hrdw by default, but is inactive.

The AIX5.1 64-bit kernel can be activated at install-time or later using the command: "smit load64bit"

Use "bootinfo -K" to determine which kernel is running.

Use "lslpp -h bos.mp64" to determine if the 64-bit kernel is installed.

Note 6: AIX5.1 runs AIX4.3 32-bit user-mode appls without any changes.

oslevel

reports version and release (doesn't report Maintenance Level)

oslevel -r

reports the AIX version, release ? service level.
(not working before AIX4.3.3 ML07 I think)

oslevel -rl 5100-04

reports what is missing to be at 5100 Maintenance level 04.

Other ways:

uname -vr

(works for all AIX versions)
(revert the numbers) 1 5 means 5.1

test

[IBM External Page including PSSP](#)[Another IBM External Page not including PSSP](#)[Another IBM Page](#)

Product	Version	End of defect support
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		YYYY-MM-DD
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AIX	5.2	2007-07-31
AIX	5.1	2005-12-31
AIX	4.3.3	2003-12-31
AIX	4.3.2	2001-12-31
AIX	4.3.1	2001-12-31
AIX	4.3.0	2001-12-31
AIX	4.2.1	2000-03-31
AIX	4.1.5	1999-03-31
HACMP	4.5.0	2004-12-31
HACMP	4.4.1	2003-12-31
HACMP	4.4.0	2002-12-31
HACMP	4.3	2001-12-31
PSSP	3.5	2005-12-31
PSSP	3.4	2003-12-31 if on AIX 4.3.3
		2004-09-01 if on AIX 5.1 and with GPFS 1.5 installed.
PSSP	3.2	2002-12-31
PSSP	3.1.1	2002-10-31
PSSP	3.1	2002-10-31
GPFS	1.5	2004-09-01

Updated: Sep 2003 by Bruno Croft

AIX 5L

	JFS2	JFS
Architectural Max File	1PB	64GB
Architectural Max File System Size	4PB	16TB (64-bit kernel) 1TB (32-bit kernel)
Maximum File Size Tested	1TB	64GB
Maximum file System Size	1TB	1TB
Number of Inodes	Dynamic, limited by disk space	Fixed, set at file system creation.

Ref <http://www.redbooks.ibm.com> SG24-5765

AIX 4.3.3

Standard JFS Maximum File Size: 2GB
 Large File Enable: 65412 MB

 To create file larger than 2GB,
 1- The FS must be large file enabled
 2- /etc/security/limits
 default
 fsize = -1
 3- This could create file size up to 64GB

AIX 5.1 incorporates JFS2, which allows you to create a file as big as 1TB
 (1 Terabyte = 1,024 Gigabytes).

1 bit = 1 binary unit (smallest unit)
 1 Nibble = 4 bits
 1 Byte = 8 bits
 1KB (Kilobyte) = 1000 bytes
 1MB (Megabyte) = 1000 KB
 1GB (Gigabyte) = 1000 MB
 1TB (Terabyte) = 1000 GB = 1,000,000 MB
 1PB (Petabyte) = 1000 TB
 1EB (Exabyte) = 1000 PB
 1ZB (Zettabyte) = 1000 EB
 1YB (Yottabyte) = 1000 ZB

Created Jan 2003 BJ Croft
 Updated Mar 2004 BJ Croft

How to redirect snap done in absolute path

```
pax -rvf 12345.b012.649.snap.tar -s/tmp/"\customer\doc\12345.b012"/gp
```

Rules for max_coalesce and queue_depth for ssa RAID-5 disk array

max_coalesce

This is the maximum number of bytes which the SSA disk device driver attempts to transfer to or from an SSA logical disk in a single operation. The default value is appropriate for most environments. For applications that perform very long sequential write operations, there are performance benefits in writing data in blocks of 64KB times the number of disks in the array minus one (these are known as full-stride writes times the number of disks in the array minus one, or to some multiple of this number.

queue_depth

Specifies the maximum number of commands that the SSA disk device driver dispatches for a single disk drive for an hdisk. You can use the chdev command to modify this attribute. The default value is correct for normal operating conditions.

Rules

max_coalesce is $(N-1)*64k$

queue_depth is from $2*N$ to $3*N$

N = number of disk in the ssa raid-5 array

0x10000 is 64K

N	max_coalesce	queue_depth
3 disks	0x20000	6 to 9
4 disks	0x30000	8 to 12
5 disks	0x40000	10 to 15
6 disks	0x50000	12 to 18
7 disks	0x60000	14 to 21
8 disks	0x70000	16 to 24
9 disks	0x80000	18 to 27
10 disks	0x90000	20 to 30
11 disks	0xA0000 (not 0X100000)	22 to 33
12 disks	0xB0000 (not 0X110000)	24 to 36
13 disks	0xC0000 (not 0X120000)	26 to 39

14 disks	0xD0000	(not 0X130000)	28 to 42
15 disks	0xE0000	(not 0X140000)	30 to 45

To change max_coalesce or queue_depth:

- 1) umount all filesystems on the raid-5 vg
- 2) varyoffvg the volume group.
- 3) Use smitty chgssardsk or chdev
Example: chdev -l hdisk2 -a max_coalesce=0xb0000
Example: chdev -l hdisk2 -a queue_depth=3
- 4) to verify the change: lsattr -El hdiskX

Created: Nov 2003 by Bruno Croft



2.2GB SCSI DISKS

FW Fast Wide Single-Ended

FWD Fast Wide Differential SE Single-Ended

FRU	FFC	DIM	FC	Description
74G6996	703	3.5	3031, 3038.	DFHSS2F Starfire SCSI-2 8-bit 50-pin - VPD Other reference: ECA199
74G6998.....				Logic card
74G7007	704	3.5	9131, 3033, 3088.	DFHSS2W Startfire SCSI-2 FW SE See VPD example
74G7014.....				Logic card. Other Ref: ECA199
74G8824				DFHSS2W SCSI-2 FW Quantum Harpoon - VPD (Subs to 74G7007)
74G8791		3.5	XXXX	DFHSS2F Quantum 8-bit - VPD Used in 7006. Subs by 74G6996
74G7010	705	3.5	XXXX	DFHHS2E Starfire SCSI-2 FW Differential - VPD
74G7015.....				Logic card. Other ref: ECA 199 RAMST04B
07H7536			XXXX	SCSI-2 Differential Used in 7135

74G8786 XXXX DFHSS2W SCSI-2 SE FW
 [VPD](#)
 Used in 7024
 Subs to 74G7007

67G3361 XXXX SCSI-2 FWD
 Used in 7134

19H0203 XXXX SCSI-2 FW 7013 J series
 Includes carrier.

76H0955 3099 SCSI-2 7248
 Replaces old 2GB 06H3370 #3031.

Last Updated Feb 13 2000 by [Bruno Croft](#)



RSINFO/6000

4.5GB SCSI DISKS

FRU	MFG	FFC	FC	Description
07H7537			2804	7135 FWD
09L0695			2900	DGHS04U Ultra Sailfin Jr. FW Subs to 76H2697
19H0208			3054	FW 7013 J series CRU (Includes carrier) 94G4406 16-bit carrier (old 19H0209) 96G4402 8-bit carrier (old 19H0265)
22L0027		638	2900	DDRS34560D Draco by IBM Order 76H2697
74G7008	74G6985	706	3034	DFHSS4W IBM Scorfire 68-SE FW DE+LC 1.6" - 74G7014 LC Only Carrier (Tray) F40 06H8631 Carrier (Tray) F30/F50 06H9389 NOTE: This drive can be sub by 74G8825
74G7011	74G6988	707	XXXX	DFHSS4E IBM Starfire 68-HVD FWD 1.6" DE+LC Logic card 74G7015
74G8787			3034	DFHSS4W Parmer Quantum. Subs to 74G7008

74G8825	74G8813	3034	DFHSS4W Blancstar SE FW by Quantum
		2314	1) When used in 7203, required 68-pin to 50-pin interposer 87G4587.
			2) 7204-404 Differential (with the help of a SE-to-DE card)
			NOTE: This drive can be sub by 74G8825

76H2697	93G3159	689	2900	DCHS04U Ultra Scorpion IBM SE FW
				See VPD example
				Also used in J50 537 PP

83H7105	03L5256	792	2900	DDRS34560W Draco Ultra SE FW
				542 PP or 537 PP

88G7057		????	DE+LC 7134 FWD
---------	--	------	----------------

93G2970	93G2854	772	DE+LC 1.0"	3000	DCHS04W Scorpion SE FW
					See VPD Example
					Microcode:
					Other info: ECA 257.
					Carrier For F40 06H8631
					For F30/F50 06H9389
					Addr Cable for 06H9389 06H7691

93H9005	689	7317	Ultra SE FW
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DE Disk Enclosure LC Logic Card SE Single-Ended FW Fast Wide FWD Fast Wide Differential
Last Update Dec 11 2000 by [Bruno Croft](#)

9.1GB SCSI Disks

FRU MFG FFC FC
Description

00P1508				68-LVD Rio
1) 34L7706		3805		DMVS-09V Thornback Ultra2
2) 07N6364				IC35L009UW - US73
00P1517	34L7388	64B	3152.	DMVS-09D Thornback 80-LVD Ultra2 10K RPM PM 7025-F80 7026-B80 3025, DDYS-T0917M Discovery 80-LVD - HSF H174922 Ultra3 10K R
03N3301	07N3752		3021	DPSS-30917M Pisces 80-pin 7200rpm
03N3873	XXXXXXXX	601	3112	68-LVD Pisces Disk&Carrier Includes Neptune 25L3101 7046-B50 Only
07K5980	07K5691	???	????	DMVS09D IBM Ultrastar 80-pin LVD 2104-DL1/TL1
07K7410			6109	Subs by 07K8180 DDYS-t09170M Ultra3 LVD 10K-RPM 2104-DU3/TU3 Check microcode
07K8180	current one			If backplane is 07K9480 see TDR H107083
07K9446	subs to 07K8180			

07N3675	07N3721	601	2908	DPSS-30917N Pisces
			2502	UW 68-SE
			2908	
			2913	
			3029	
			3116	9076 node
07N3778	07N3821		3002	Discovery DDYS-TO9170N
				68-LVD Ultra3
			3027	10K RPM
			3804	9076 node
07N3784	07N3851		2906	Discovery DDYS-TO9170M
				80-LVD Ultra3
09L3115				Subs to 09L3391
09L3117				Subs to 09L3393
09L3391			5209	DRVS09D Mako LVD 10K RPM
				2104-DL1/TL1 - 34L2288 in VPD
09L3393		442	5109	Ultra2 LVD Neptune 7200
				2104-DL1/TL1
09P4868	09P4867	62D		ST3XX Cheetah Ultra3 - Ref H174922
				68-pin 10K RPM
			3002=	S70, S7A, S80, S85 F40 F50 F80 H50 H70
			3027=	6H0 6H1 H80 M80 7043-150 260 270 7044-170/270
			3804=	SP systems
09P4874	09P4873	58B		ST3XX Cheetah Ultra3 - Ref H174922
				80-pin 10K RPM
			3025=	F80
			3152	
25L3101	25L1861	440	3800	1" DNES Ultra SCSI Neptune - VPD
				Disk only, no carrier, mfg 25L1861
				No available microcode.
				7025-F, 7043-All, 7026, 7017
25L3113				Ultra LVD/SE 7204-409

27H1677				DCHS09X Scorpion Differential 7204-339 Microcode RAMR6063: Info Download in AIX format (979840B) Microcode RAMR663A: CORE SERVER Yes CORE V6 CD: No Other ref: ECA 257
31L8768	07N3723			DPSS-30917N Pisces 68-pin Rio
34L2232		639	3027	DRVS09V 68-LVD Ultra2 Mako 10K rpm 7044-270 Bay D03 only
34L2233			2906	DRVS09D 80-LVD Ultra2 Mako 10K rpm 7044-270 Bay D04, D05 only
34L2256				Subs to 03N2837
34L7393	34L7387	63A	3027	DMVS-09V Thornback 10K RPM 68-LVD Ultra2
59H6926		681	2908	DGHS09U 1" Sailfin Ultra-SCSI FW Cust Setup in: 7024, 7025, 7043. Non-Cust Setup in: 7012, 7013, 7015, 7017, 7026, 7030, Requirement: AIX 413 IX61149 AIX 414 IX61149 AIX 420 IX60676 AIX 43 OK

76H2698	690	2910	DCHS09U 1.6" Scorpion Ultra Microcode RAMR6063: Info Download in AIX format (979840B) Microcode RAMR663A: CORE SERVER Yes CORE V6 CD: No 2917, Module 3012.
06H9389.....			Carrier
67G3955.....			Disk Other ref: ECA 257
93G2972	773	3010	DCHS09W Scorpion SE FW Microcode RAMR6063: Info Download in AIX format (979840B) Microcode RAMR663A: CORE SERVER Yes CORE V6 CD: No Other reference: ECA 257 4.1.5 no APAR needed 4.1.4 + APAR IX61149 supp 4.1.4 + APAR IX60675 diag 4.2.0 + APAR IX60676 3.2.5 not supported 2509, 7131-105 3088, 3035.
06H8631.....			Carrier For F40
06H9389.....			Carrier For F30/F50/H50/S80/S85
06H7691.....			Addr Cable for 06H9389

CRU	FC	Description
-----	----	-------------

07L7923	3011	7013-J40/J50 Disk + cage.
96G4409		Subs to 07L7903

Last Update: March 2004 Bruno Croft

18.2GB Disks

FRU MFG FFC FC
Description

00P1511		61E		68-LVD U2 10K Drive/Carrier
1	34L7704		3811	DMVS-18V Stingray
2	07N3812		3811	DDYS-T18350N Discovery 9076 SP RIO not node
3	07N6354		3811	IC35L018UW US73 68-PIN
00P1518	07N3842		3026 3153	DDYS-T18350M - Stingray 80-LVD Ultra3 10K RPM
00P1520		64D		80-LVD Ult2 10K Drive/Carrier See HSF H174922
1)	34L7386		3026	DMVS-18D Stingray
2)	07N3842		3026, 3153.	DDYS-T18350M Discovery
00P3064	00P2680	58D	3026, 3153, 3157, 3272.	ST318307LC - Disk+Carrier Gemini Cheetah 10K 80pin Used in 7025-F80/6F0/6F1, 7026-B80, 7028-6C4/6E4, 7040-61D, 7046-B50, 7039-651, 7311-D20.
00P3829	08K0303	58D	3026, 3153, 3157, 3272.	IC35L018 UCDY10 - Disk+Carrier Daytona 10K 80pin Used in 7025-F80/6F0/6F1, 7026-B80, 7028-6C4/6E4, 7040-61D, 7046-B50, 7039-651, 7311-D20.
03N3302	07N3742	624	3023	DPSS-318350M IBM Pisces 80-LVD Ultra2 7200 RPM 7026-B80

03N3874	07N3712	441	3113	DPSS-318350N 68-pin Ultra Includes Neptune 25L3100 Disk/Carrier 7046-B50 Only
07K5981	07K5692	???	5218	DMVS18D Ultrastar 80-LVD 10K 2104-DL1/TL1
07K7404				Subs to 07K7406
07K7406	07N5835		6118	DDYS-T18350M U3 LVD 10K Old 2104-DU3/TU3 <u>Check microcode</u> Now subs to 55P4114 If backplane is 07K9480 See TDR H107083
07K8181				2104-DU3/TU3 Now subs to 55P4114 - REF HSF H177854
07K9450	07K9427		6118	Subs to 07K8181 ST318305LC Scallops U3 LVD 10K Review H107083 H174795 H174922 if it applies. New 2104-DU3/TU3
07N3174	07N8793		3111, 3102, 3810.	IC35L018 Daytona
07N3674	07N3711	623	3046, 3103, 3104.	DPSS-318350N 68-SE UW Pisces 7200 RPM Only 3466-C01, 7013-52E, 7015-R50 All other M/T use 07N3174
07N3776	07N3811	60B	3117, 3102, 3810.	DDYS-T18350N Discovery 68-LVD Ultra3 10K rpm F80 M80 H80 9076 node Replace by 07N3174

07N3782	07N3841	63D	3110	DDYS-T18350M - Discovery 80-LVD Ultra3 10K RPM 7043/7044-270 Replaced by 09P4433
07N4813	07N6353		3111, 3102, 3810.	IC35L018UW US73 68-pin
07N4843	07N6383		3110	IC35L018UC US73 80-pin
09L3116				Subs by 09L3392
09L3118		443		Subs by 09L3394
09L3392	34L2287	643	5218	DRVS18D IBM Mako 80-LVD 10K RPM 2104-DL1/TL1
09L3394		443	5118	Ultra LVD Neptune 7200 2104-DL1/TL1 - 09L3118
09P3823		58D 63D	3263	Drive+Carrier Used in 2104, 7028-6C1/6E1/6C4/6E4, 9112-265 DDYS-T18350M Discovery 80-LVD Ultra2 10K STXXX Cheetah version - HSF H174922
	Vers 1 07N3844			
	Vers 2 07N7081			IC35L018UC Discovery-2 (UltraStar73) 10K 80pin
09P3922	07N7080	58D	3026, 3153.	IC35L018UC - Disk+Carrier Discovery-2 (Ultrastar7) 80-pin Used in 7025-F80/6F0/6F1, 7026-B80, 7028-6C4/6E4, 7040-61D, 7046-B50, 7039-651.
09P4429	09P4428	60B	3111, 3117, 3102, 3810.	ST318305LW Cheetah - HSF H174922 10K 68-LVD

09P4433	09P4432	63D	3110	ST3XX 80-LVD Cheetah - HSF H174922 7043/7044
09P4435	09P4434	58D	3026, 3153, 3157.	ST318305 - Disk+Carrier Cheetah 80pin - HSF H174922 Used in 7025-F80/6F0/6F1, 7026-B80, 7028-6C4/6E4, 7040-61D, 7046-B50, 7039-651.
09P4437	09P4436	58D	3263	ST3XX 80-pin Cheetah See HSF H174922
25L3100	25L1860	441	2909 3046	IBM DNES-318350W - Neptune 68-SE 7200 RPM 1" UW 7043-140
25L3112	25L1962		3023	IBM DNES-318350Y Neptune 80-LVD Ultra2 7204-419 FW SE
31L8770	07N3713	623	3803, 9146.	IBM DPSS-318350N 68-SE UW Pisces
34L7391	34L7385	63C	3102, 3810.	DMVS-18V - Stingray 68-LVD Ultra2 10K RPM F80 H80 M80 Subs to 07N3776
34L7392	34L7386	63D	3110	DMVS-18D - Stingray 80-LVD Ultra2 10K RPM
55P4114				IC35L018UCDY10-0 2104-DU3/TU3
59H6923	59H6813	653	2918, 3046.	IBM DGHS18U IBM - Marlin Ultra - 7200 RPM
59H6925	???????		XXXX	IBM DGHS18X Differential 7204-418

Notes:

LVD= Low Voltage Differential

SE= Single Ended

HVD= High Voltage Differential

F= Fast SCSI; 8-Bit(Narrow) ,10MB/Sec Max. Data Transfer Rate
FW= Fast Wide SCSI; 16-Bit, 20MB/Sec Max. Data Transfer Rate
U= Ultra SCSI; 8-bit, 20MB/Sec Max. Data Transfer Rate
UW= Ultra Wide SCSI, 16-bit, 40MB/Sec Max. Data Transfer Rate
Ultra2= Ultra-2 SCSI; 16-bit, 80MB/Sec Max. Data Transfer Rate(LVD Only)
Ultra3= Ultra-3 SCSI; 16-bit, 160MB/Sec Max. Data Transfer Rate(LVD Only).

Updated: Sep 2004 Bruno Croft

36.4GB SCSI DISK

P/N	MFG	FFC	FC	Description
00P1512				Not a valid FRU Uses 00P1514
00P1514		64E	3821	68-LVD U2 10K Drive/Carrier RIO Nighthawk Exp I/O 1) 07N3802..... DDYS-T36950N Discovery 2) 34L7703..... DMVS-36V Manta 3) 07N6344..... IC35L036UW US73
00P1519	07N3832	61D	3129	DDYS-T36950M Discovery - HSF H174922 80-LVD Ultra2 Drive/Carrier 7026-B80
00P2693	00P2692		3277	ST336753LC Odyssey Cheetah 15K RPM 80-U320 Ultra3 - Disk+Carrier Used in F80/6F0/6F1/B80/6C4/6E4/ 6C3/6E3/6M2/651/61D/D20/9112-275/9114
00P2697	00P2696		3280	ST336753LC Odyssey Cheetah 15K RPM 80-U320 Ultra3 - Disk+Carrier Used in 6C1/6E1/0122-265
00P3065	00P2679	63E	3119 3169 3820	ST3366607LW 68 10K Gemini (Cheetah 146LP) Interchangeable with 09P4439, 07N3173, 07N4803
00P3068	00P2676	59B	3129, 3158, 3273.	ST336607LC Drive/Carrier 80-Ultra3 Interchangeable with 09P3923, 09P4445 and 00P3831 Used in 7025-F80/6F0/6F1, 7026-B80, 7039-651, 7040-61D, 7046-B50, 7311

00P3831 08K0293 59B 3129, IC35L036 UCDY10 80-Ultra3 Drive/Carrier
3158, Interchangeable with 09P3923, 09P4445 and 00P3068
3273. Used in 7025-F80/6F0/6F1, 7026-B80,
7039-651, 7040-61D, 7046-B50,
7311-D20.

07K5701 07K5693 ??? 5236 DMVS36D IBM Ultrastar
80-pin LVD 10K
2104-DL1/TL1

07K7402 6136 Subs to 07K8182
DDYS-T39950M Ultra3 LVD 10K-RPM
2104-DU3/TU3 [Check microcode](#)

07K9454 subs to 07K8182

07K8182 ST336605LC
If backplane is 07K9482 see TDR H107083

07N3173 07N8783 63E 3119, IC35L036UWDY10 68-pin 10K
3169,
3820.

07N3177 07N8823 61B 3128 IC35L036 UCDY10 80-pin 10K
Interchangeable with 07N4833, 09P4443, 00P3067

07N3774 07N3801 63E 3820 DDYS-T36950N Discovery
3119 68-LVD Ultra2
Subs to 09P4439

07N3780 07N3831 61B 3128 DDYS-T36950M Discovery
80-LVD Ultra3 10K RPM
7043/7044
Subs to 09P4443

07N4803 07N6343 63E 3119 IC35L036UW US73 68-pin - No Carrier
3169 10K
3820
Interchangeable with 09P4439, 07N3173, 00P3065.

07N4833 07N6373 61B 3128 IC35L036UC US73 80-pin
Interchangeable with 09P4443, 07N3177, 00P3067.

09L3339 644 Subs to 09L3395

09L3395 644 5136 DRHS-36D - Swordfish 7200 RPM
Ultra2 80-LVD SCSI
2104-DL1/TL1 - 09L3339

09P3826 61B 3264 Drive/Carrier
59B Interchangeable with 09P4447
Used in 2104, 7028-6C1/6C4/6E1, 9112-265
80 LVD Ultra2 10K
Used in 7028-6C1/6E1/6C4/6E4, 9112-265

07N3834 DDYS-T36950M Discovery
STXXX Cheetah - HSF174922
7028-6C1/6E1

07N7071 IC35L036UC D210 US73

09P3923 07N7070 59B 3129 IC35L036UC US73 80-pin Drive/Carrier
Interchangeable with 09P4445, 00P3831 and 00P3068
Used in 7025-F80/6F0/6F1, 7026-B80,
7039-651, 7040-61D, 7046-B50, 7028-6C4

09P4439 09P4438 63E 3119 ST3XX Cheetah 10K RPM - HSF H174922
3169 68-pin
3820
Interchangeable with 07N4803, 07N3173, 00P3065.

09P4443 09P4438 61B 3128 ST3XX Cheetah 10K RPM - HSF H174922
7043/7044

09P4445 09P4444 59B 3129 ST3XX Cheetah - Drive/Carrier
3158 10K RPM 80-pin - HSF H174922
Interchangeable with 09P3923, 00P3831 and 00P3068
Used in 7025-F80/6F0/6F1, 7026-B80,
7039-651, 7040-61D, 7046-B50

09P4447 09P4446 59B 3264 ST3XX Cheetah - HSF H174922
10K RPM 80-pin
Interchangeable with 09P3826

34L7389 34L7383 3820 Now subs to 07N3774
DMVS-36V Manta Ultra2
Ultra 68-LVD Drive/carrier

55P4098 ST336753LC

55P4118 IC35L036UCDY10-0

Updated: 04/2004 BJ Croft

73GB SCSI DISK

P/N	MFG	FFC	FC	Description
00P2685	00P2684	451	3278	ST373453LC Odyssey Cheetah Drive/Carrier 73LP-X15 80-Ultra3 15K 7028-6C4/6E4, 7029-6C3/6E3, 7038-6M2, 7039-651, 7040-61D, 7311-D20, 9114-275
00P2689	00P2688		3281	ST373453LC Odyssey Cheetah Drive/Carrier 73LP-X15 80-Ultra3 15K 7028-6C1/6E1, 9112-265
00P3069	00P2675	57B	3118 3844	ST373307LW Cheetah Gemini 68-U160 Ultra LVD 10K Interchangeable with 07N4798, 09P4882, 07N3172.
00P3071	00P2673	57D	3163	ST373307LC Cheetah Gemini 80-U160 10K 7043 7044
00P3072	00P2672	57D	3159 3274	ST373307LC Cheetah Gemini 80-U320 10K Drive/Carrier 7025-F80/6F0/6F1 7026-B80 7028-6C4/6E4 7039-651 7040-61D 7046-B50 Interchangeable with 00P3833, 09P3924, 09P4888.
00P3833	08K0283	57D	3159 3274	IC35L073UCDY10 80-U320 Drive/Carrier 10K 7025-F80/6F0/6F1 7026-B80 7028-6C4/6E4 7039-651 7040-61D 7046-B50 Interchangeable with 00P3072, 09P3924, 09P4888.
07N3172	07N8773	57B	3118 3844	IC35L073UWDY10 Daytona 68-U160 Ultra LVD Interchangeable with 07N4798, 09P4882, 00P3069.

07N3176	07N8813	57D	3163	IC35L073UCDY10 80-U160 10K 7043 7044
44H4644				Carrier 7044-270 80 pin
07N4798		57B		10K 68-pin Ultra LVD Interchangeable with 09P4882, 07N3172, 00P3069.
07N4799		57D		80-pin 10K 7043 7044
09P3924		57D		10K Drive/Carrier 7025-F80/6F0/6F1 7026-B80 7028-6C4/6E4 7039-651 7040-61D 7046-B50 Interchangeable with 00P3072, 00P3833, 09P4888.
09P3928		57D		Drive/Carrier 7028-6C1/6E1 9112-265 Interchangeable with 09P4890
09P4882	09P4881	57B	3118 3844	ST373405LW Cheetah 68-pin Ultra LVD 10K
09P4886	09P4885	57D	3163	ST373405LC Cheetah 80-pin 10K 7043 7044 Interchangeable with 07N4799, 07N3176 and 00P3071
09P4888	09P4887	57B	3159	ST373405LC Cheetah 10K 80-pin Drive/Carrier 7025-F80/6F0/6F1 7026-B80 7028-6C4/6E4 7039-651 7040-61D 7046-B50 Interchangeable with 00P3072, 00P3833, 09P3924.
09P4890	09P4889 00P2674	57D	3265 3265	ST373405LC Cheetah 80 10K ST373307LC Gemini 80-U320 10K 7028-6C1/6E1 9112-265 Interchangeable with 09P3928.

55P4103

451

ST373453LC

2104-DU3/TU2, 7040-681

Created: Feb 21 2003 by [BJ Croft](#)

[Update Apr 2004](#)

146GB SCSI DISK

P/N	MFG	FFC	FC	Description
00P2665	00P2664	453	3275	Cheetah ST314687LC Gemini 80-U320 10K Drive & Carrier 7028-6C4/6E4 7039-651 7040-61D Interchangeable with 00P3835
00P2669	00P2668	453	3276	Cheetah ST314687LC Gemini 80-U320 10K Drive & Carrier 7028-6C1/6E1 9112-265 Interchangeable with 00P3837
00P3835	08K0273	453	3275	IC35L146UCDY10 Daytona 80-U320 Drive & Carrier 7028-6C4/6E4 7039-651 7040-61D Interchangeable with 00P2665
00P3837	08K0272	453	3276	IC35L146UCDY10 Daytona 80-U320 Drive & Carrier 7028-6C1/6E1 9112-265 Interchangeable with 00P2669

Created: Feb 21 2003 by [BJ Croft](#)



RSINFO/6000



160MB SCSI DISK

P/N

FFC DIM

FC

160MB 81F8085

959 3.5"

2121 220/340/350

Created Aug 2002 by [Bruno Croft](#)



RSINFO/6000



200MB SCSI DISK

P/N

FFC

DIM

FC

200MB	43G1842 DE+LC	989	3.5"	2490
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Created Aug 2002 by [Bruno Croft](#)



RSINFO/6000



270MB SCSI DISK

P/N

FFC DIM

FC

270MB 82G5930

5930 6015

Created Aug 2002 by [Bruno Croft](#)



320MB SCSI DISK

P/N

FFC

DIM

FC

320MB	93X0961 DE+LC	953	3.5"	2540	Not 730/930
	93x0901 LC	953			

Created Aug 2002 by [Bruno Croft](#)



RSINFO/6000



340MB SCSI DISK

(Now replaced by 360MB 82G5931)

P/N

FFC DIM

FC

340MB 71G6551

6551 6015

Created Aug 2002 by [Bruno Croft](#)



355MB SCSI DISK

P/N

FFC

DIM

FC

355MB	53F3427 DE+LC	952	5.25"	2500	Not	320/540/930
	6373521 LC	952				

Created Aug 2002 by [Bruno Croft](#)



RSINFO/6000



360MB SCSI DISK

	P/N	FFC	DIM	FC	M/T
360MB	82G5931			9747	6015
				5931	7020

Created Aug 2002 by [Bruno Croft](#)



400MB DISK

CAPACITY		P/N		FFC	DIM	FC
400MB	SCSI-1	00G1948, DE+LC 73F9001		954	3.5"	#2560
	SE	73F8994 LC		954		

NOTE: Some people reports to me that they can't order 00G1948. So I put back the original number 73F9001. This one should work,

DE Disk Enclosure LC Logic Card SE Single-Ended

11/16/98



670MB DISK

	P/N		FFC	DIM	FC	
SCSI	53F3429 DE+LC		951	5.25"	2310	Not 320/540
	6373521 LC		952			

Last Update 11/25/99 by [Bruno Croft](#)



720MB DISK

P/N	FFC	DIM	FC	WHERE USED
SCSI-2 82G5933		3.5"	5933	7020
			2395	7248

Last Update 11/16/98 by [Bruno Croft](#)



857MB DISK

Note: See RETAIN HSF H064942 for more details.

	P/N	FFC	DIM	FC	
SCSI	45G9502 DE+LC	955	3.5"	2530	Replaces old 5.25" 7013/7015/7016/9334
	95X2439 DE+LCFA	955	5.25"	2530	Equivalent of 95X2346 + 95X2431
	95x2346 LCFA	955		2530	If PN95x2430 (not a FRU) on disk and FFC141.
	95X2431 DE	955	5.25"	2530	If PN95x2430 (not a FRU) on disk and FFC 955. Try the logic card first
	95X2432 LCFA	955		2530	Order this PN if problem is not yet identified as the disk or logic card AND if PN95x1700 is found on the disk AND you try to save customer data.
SERIAL	70F9154 95X2431 DE 70F9042 LCFA			3100	9333-010/500

Last Update 11/16/98 by [Bruno Croft](#)



RSINFO/6000



1GB SCSI Disks

FRU	FFC	DIM	FC	Description
36G6930				This is the current one
86G9049		3.5"	2555	Starspit 8-bit SE SCSI-2 7006, 7009, 7011, 7012, 7013, 7015, 7030 Now subs to 36G6930
45G9467 DE+LCFA	984	1.0"	2555	Spitfire Subs by 36G6930. Don't uses in 7204.
45G9470.....				Logic card.
55F9902 DE+LCFA 55F9909.....	968	3.5"	XXXX	SCSI-2 Corsair IIE/ Marked 55F9838 9334/7018 - Others order 36G6930 Logic card
55F5855 DE 55F5199.....	968	3.5"	XXXX	SCSI-1 Corsair/ (Obsolete). Subs to 36G6930 720X order 46G2388. Logic card
55F5900				Invalid FRU - Use 36G6930
6374682 DE+LC 6374683.....	913		XXXX	SCSI-2 DIFFERENTIAL (6374681) Logic card
46G2388 DE+LC 55F5000.....		3.5"	XXXX	SCSI-1 Corsair II/ Bridgeboxes Also use in 7204. Logic card
19H0202 19H0265.....			XXXX	SCSI-2 8-bit 7013 J Series Carrier + DC3 card
92F0428			XXXX	6015 / 7020

07H0390 3397 7248 06H9079

51G9447 2556 Subs to 36G6930

DE Disk Enclosure LC Logic Card SE Single-Ended

Last updated: 29 Dec 1999



1.1GB SCSI DISKS

P/N FFC DIM FC

SCSI-2	74G6995 DE+LC	700	3.5"	XXXX	Single-Ended	
	74G6998 LC				Starfire	
	See ECA199 - current microcode					RAMST04B
<hr/>						
SCSI-2	74G7006 DE+LC	701	3.5"	3032	Single-Ended	F/W
	74G7014 LC				Starfire	
	See ECA199 - current microcode					RAMST04B
<hr/>						
SCSI-2	74G7009 DE+LC	702	3.5"	XXXX	Differential	FW
	74G7015 LC				Starfire	
<hr/>						
SCSI-2	19H0207			3050	F/W 16-bit	
	(Includes carrier)				7013 J series	

DE Disk Enclosure LC Logic Card SE Single-Ended

11/17/99



RSINFO/6000



1.2GB DISKS

P/N FC

SCSI 07H0390 9396, 7248-100/120/132 5400RPM
8228.

36G4280 XXXX Disk alone part of 2.4GB
twin disk. See 2.4GB

Update: Aug 2002 by Bruno Croft



1.37GB DISKs

P/N

FFC

DIM

FC

SCSI

52G0061 Disk
31G9756 Logic

960

5.25

XXXX

Created 11/16/98



2.0GB DISKS

	P/N	FFC	DIM	FC	
SCSI-2	19H0201 (Includes carrier)			XXXX	8-bit 7013-J Series
SCSI-2	90F0894 DE+LCFA (86F0118) 86F0110 LC	990 990	3.5"	SE XXXX	Allicat
SCSI-2	86G9099 DE+LCFA		3.5"	2548	Single-Ended StarAlli
SCSI-2	86F0766 DE+LCFA 86F0112 LC	918	3.5"	XXXX	Single-Ended F/W
SCSI-2	86F0119 DE+LCFA 86F0125 LC	912 912	3.5"	XXXX	Differential
SCSI-2	86F0767	917	3.5"	XXXX	Differential F/W NOTE: not 7134 !
SCSI-2	67G3022	917	3.5"	XXXX	Differential F/W 7134
SCSI-2	06H3370		3.5"	XXXX	Single-Ended F/W 6015 / 7020 / 7248 (now sub by 76H0955 2.2GB)

Update: 11/18/99



RSINFO/6000

2.16GB SCSI DISK

FRU	FFC	FORM	FC	DESCRIPTION
93H7151 DE+LC	784	3.5"	3097, 3096.	Single-Ended 8-bit SCSI-2 7006-42T-42W 7248 ALL
93H7152 DE+LC	784	3.5"	3093, 3095, 9395.	Single-Ended F/W Orion SCSI-2 7024-E30/7043-140

Notes: 07H1132 is not used anymore in RS/6000 - order 93H7151
 07H1119 is not used anymore in RS/6000 - order 93H7152

Mar 01 2001 by [Bruno Croft](#)



2.4GB DISKs

P/N

FFC

DIM

FC

SCSI-2 36G0454 ALL 986 5.25" XXXX (36G0438)
36G4280 1disk C11
+ LC + cage

06/08/98

Disks Specifications

	30MB	120MB	160MB	200MB	258MB	320MB
Formatted Capacity MB..	30	120	160	200	258	320
Rotational Speed RPM..	3600	3600	3600	4320	3800	4316
Start Time (sec).....	20	32	32	30	2.7	30
Cylinders..... (Users Accessible)	928	920	1021	2009	2264	949
Heads.....	2	8	8	4	3	14
Sectors per Track.....	33	33	39	44-66	60-90	48
Media Xfer Rate MB/Sec.	1.275	1.3	1.5	2-3	2.5-4.0	2
One Cyl Read MB/Sec..	1.275	1.0	1.5	1.6-2.4	2.4	1.7
Bus Xfer Rate..... (Peak MB/sec)	N/A	3.3	5	5	3	4
Rotational Latency (ms)	8.33	8.33	8.33	6.9	7.9	6.95
Seek Times (ms)						
1-Track	8	8	5	5	4.9	2
Average	19	23	16	12	16	12.5
Maximum	40	40	28	25	35	25
Power Dissipation Watts	5	14	14	14	16	16
Weight (Kg)	0.6	.85	.85	.41	1	1
Form Factor (inches)	3.5	3.5	3.5	3.5	3.5	3.5

	355MB SCSI-1	400MB SCSI-1	540MB SCSI-2	670MB SCSI-1	857MB SCSI-1	857MB Serial
Formatted Capacity MB	355	400	546	670	857	857
Rotational Speed RPM	3600	4316	6300	3600	4986	4986

Start Time (sec)	30	30	30	30	30	30
Cylinders (Users Accessible)	1626	1199	2466	1626	1458	1458
Heads	8	14	7	15	20	20
Sectors per Track	54	48	48-87	54	58	58
Media Xfer Rate MB/Sec	1.9	2	2.5-4.7	1.9	3	3
One Cyl Read MB/Sec	1.6	1.7	1.5	1.6	2.4	2.4
Bus Xfer Rate (Peak MB/sec)	4	5	5/10	4	4	8
Rotational Latency (ms)	8.33	6.95	4.76	8.33	6.02	6.02
Seek Times (ms)						
1-Track	4.9	1.4	1.6	4.9	2	2
Average	16	11.5	8.5	18	11.2	11.2
Maximum	35	20	20	35	28	28
Power Dissipation Watts	35	16	14	35	40	40
Weight (Kg)	3.2	1	0.6	3.2	3.5	6
Form Factor (inches)	5.25	3.5	3.5	5.25	5.25	5.25

	1GB Corsair	1GB Spitfire	1.07GB Serial	1.1GB SCSI-2	1.37GB SCSI-1
Formatted Capacity MB	1000	1052	1070	1100	1370
Rotational Speed RPM	4316	5400	4986	7200	5400
Start Time (sec)	30	30	30	30	30
Cylinders (Users Accessible)	2051/ 2463*	4119	1823	4385	2098
Heads	15/13*	5	20	4	17
Sectors per Track	66	90-108*	58	129 (2)	61-85(2)
Media Xfer Rate MB/Sec	3	5-6	3	5/6	3.2-4.5
One Cylin Read MB/Sec	2.4	4.71*	2.4	9.6-12	2.7-3.8
Bus Xfer Rate (Peak MB/sec)	5/10(6)	20	8	10	5
Rotational Latency (ms)	6.95	5.56	6.02	4.17	5.56

Seek Times (ms)	1-Track	1	1	2	1	2
	Average	11/9.8*	8.8	11.2	7.22	12
	Maximum	22/20.5	16.8	28	14.3	25
Power Dissipation Watts		16	11	40	10	40
Weight (Kg)		1	0.46	6	.46	3.6
Form Factor (inches)		3.5	3.5	5.25	3.25	5.25

		2GB (3)	2GB	2.2GB	2.4GB	4.5GB	9.1GB
		SCSI-2	Serial	SCSI-2	SCSI-2	SCSI-2	SCSI-2
Formatted Capacity MB		2013	2013	2200	2400	4500	9100
Rotational Speed RPM		5400	5400	7200	4316	7200	7200
Start Time (sec)		30	30	30	30	30	
Cylinders (Users Accessible)		2577	2577	4390	2463	4392	
Heads		15	15	8	15x2	16	
Sectors per Track		94	94	129 (2)	67	129 (2)	
Media Xfer Rate MB/Sec		5.22	5.22	9.6-12.1	3	9.6-12.1	13.7
One Cylin Read MB/Sec		3.9	3.9	2.4	2.4	7.2	

Bus Xfer Rate	10/20(3)	8	10/20 (3)	10	20	15.4
(Peak MB/sec)						
Rotational Latency (ms)	5.56	5.56	4.17	6.95	4.17	4.17

Seek Times	1-Track	1	1	1	1.5	1	
(ms)	Average	9.5	9.5	7.8	9.8	7.8	8.5
	Maximum	17.7	17.7	15.3	22	16.8	

Power Dissipation Watt	16	16	12	26	17	
Weight (Kg)	1	1	.46	3.0	.82	
Form Factor (inches)	3.5	3.5	3.5	5.25	3.5	3.5
Height						1.6"

*

* Applicable only for drives shipped after 09/1992

- (2) Drive employs a variable frequency recording technique such that linear bit density varies with cylinder position (radius). The values given represents the average or typical values at the innermost cylinder and outermost cylinder.

2104 DL1/TL1 DU3/TU3 Expandable Storage Plus

DL1/TL1 can be attached on:

- MCA SCSI-2 F/W..... 4-7 #2415
- PCI SCSI-2 RAID SE F/W..... 4-H #2493
- PCI 3-Channel Ultra2 SCSI RAID 4-T #2494
- PCI Dual Channel Ultra2 SCSI.. 4-R #6205
- PCI SE Ultra

br>SCSI..... 4-K #6206

- PCI SCSI-2 F/W SE..... 4-A #6208

DU3/TU3 can be attached on:

- PCI 3-Channel Ultra2 SCSI RAID..... 4-T #2494
- PCI 4-Channel Ultra3 SCSI RAID Adapter #2498
- PCI Dual Channel Ult

a3

SCSI Adapter.. #6203

- PCI Dual Channel Ultra2 SCSI Adapter.. #6205
- PCI SE Ultra-SCSI..... 4-K #6206
- PCI SCSI-2 F/W SE..... 4-A #6208

_____|||_|_|_|_|_|_|_|_____

4-R Ultra2 #6205	|_____1_____|	2104	|
OR	|	|	|
4-T Ultra2 #2494	|	|	|
_____	_____		

br>br>

_____ _ _ _ _ _ _ _ _____			
4-A SCSI #6208	|_____2_____|	2104	|
4-H RAID #2493	|	|	|
4-K Ultra #6206	|	|	|
_____	_____		
		<	

r>

_____ _ _ _ _ _ _ _ _____			
4-7 SCSI #2415	|_____3_____|	2104	|

DESCRIPTION

1. Cable Adapter-to-device	09L3299	1.0m
	09L3301	3.0m
	09L3303	5.0m
	09L3305	10.0m
	09L3307	20.0m
2. Cable Adapter-to-device	09L3309	3.0m
3. Cable Adapter-to-device	09L3311	3.0m

Disk	RPM	FRU	Type	DL1/TL1	Minimum Microcode When it applies
9.1GB	7200	09L3393	Ultra2	#5109 DL1/TL1	
	10000	09L3391	Ultra2	#5209 DL1/TL1	
	10000	07K7410	Ultra3	#6109 DU3/TU3	S9RA
18.2 GB	7200	09L3394	Ultra2	#5118 DL1/TL1	
	10000	09L3392	Ultra2	#5218 DL1/TL1	
	10000	07K7406	Ultra3	#6118 DU3/TU3	S9RA
36.4GB	7200	09L3395	Ultra2	#5136 DL1/TL1	
		00N7272		Disk Filler	
	10000	07K5701	Ultra2	#5236 DL1/TL1	
	10000	07K7402	Ultra3	#6116 DU3/TU3	S9RA

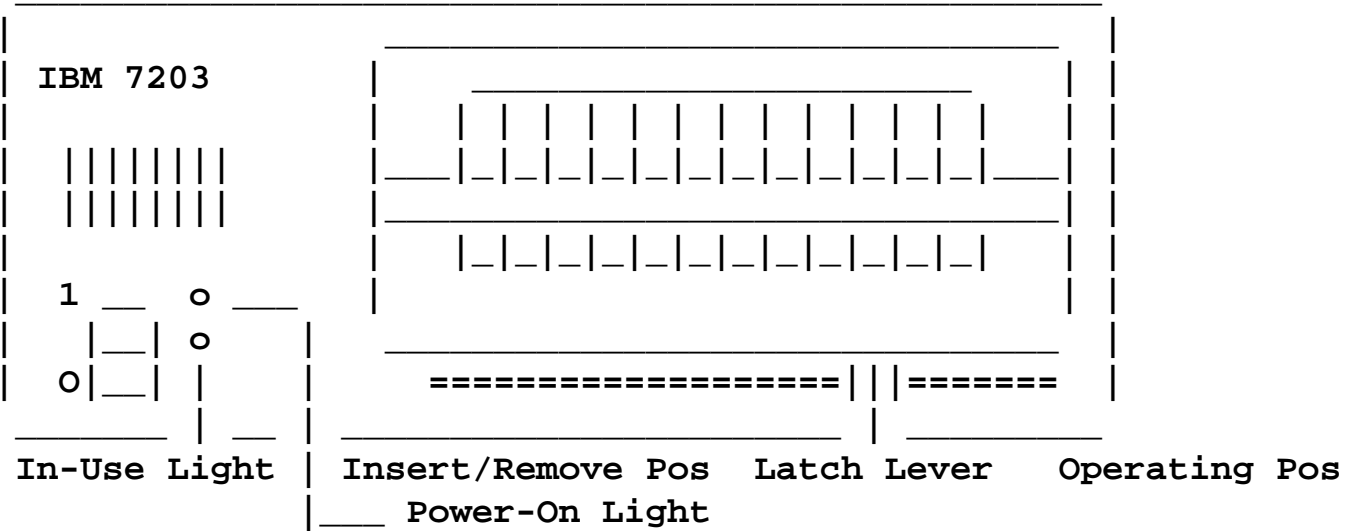
OTHER PARTS

Switch card assembly	09L3113	
Power Cable.....	36L8886	DL1 only
Fan and P/Supply asm	09L3108	DL1/TL1
Power cord 125V US..	6952301	

[Info](#)

Created: Feb 2000 by Bruno Croft
Updated: Sep 2002 by Bruno Croft

7203 Portable 355/670mb/1gb External Hard Disk



Disks	P/N	SCSI Cab	Pwr Cable	Address	LED Cable
355MB	53F3427	71F0980	71F1369		
670MB	53F3429	71F0980	71F1369		
1GB	55F9902	54F9426	54F9427		
2.2GB	74G6996	54F9426	54F9427	87G4859	
4.5GB	74G8825	54F9426	54F9427	87G4859	
	or	87G4587*			
	74G7008				

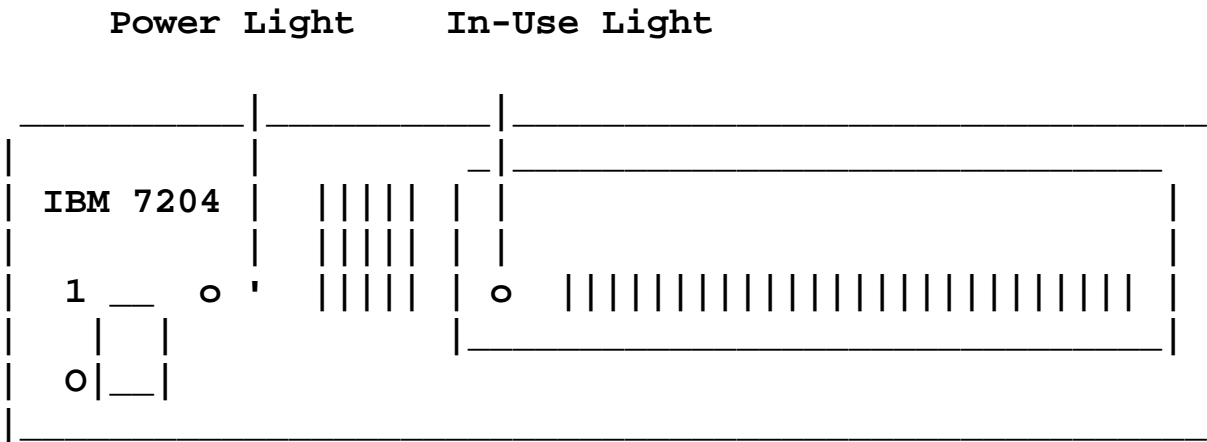
* Interposer 68pin male to 50pin male (Ref Adapters, Devices and Cable Information MCA SA23-2764-04 or SA38-0533 Page 2-87)

Common Parts

Fan..... 11F8898
 Logic..... 81F7758
 Power Supply... 00G2960

Last updated: 09/27/99

7204 External Disk Drive



7204 Model	Disk Size	Disk N	Disk FRU	Power Supply	Coolin Fan	Ribbon Cable	Switch Adress
001 SE N	1GB	1	46G2388, 55F9902, 55F5855.	46G3934	55F9421	81F8216	53F3502
010 SE N	1GB	2	45G9467	46G3934	55F9421	74G8531	
112 SE FW	1.1GB	2	74G7006	59H3760	42F7300	87G4870	87G4866
113 SE FW	2.2GB	2	74G7007	59H3760	42F7300	87G4870	87G4866
114 SE FW	4.5GB	2	74G7008	59H3760	42F7300	87G4870	87G4866
118 SE FW	18.2GB	2	59H6923	59H3760	42F7300	87G4870	21H2713
139 SE FW	9.1GB	2	93G2972	59H3760	42F7300		
215 DI SN	2GB	2	86F0119	8191380	55F9421	74G8531	74G8268

315	DI FW	2GB	2	86F0767	8191380	55F9421	74G8270	87G1353
317	DI FW	2.2GB	2	74G7010	59H3760	42F7300	87G4870	87G4866
320	SE N	320MB	1	93X0961	00G2960	42F7300	81F8216	53F3502
325	DI FW	4.5GB	2	74G7011	59H3760	42F7300	87G4870	87G4866
339	DI FW	9.1GB	2	27H1677	59H3760	42F7300		
402	DI FW	2.2GB	2	74G8824	59H3760	42F7300	87G4870	21H2713
404	DI FW	4.5GB	2	74G8825	59H3760	42F7300	87G4870	21H2713
409	SE FW	9.1GB	2	25L3113	59H3760	42F7300	34L2857	21H2713
418	DI FW	18.2GB	2	59H6925 (cardSE/DE 59H3945)	59H3760	42F7300	87G4870	21H2713
419	SE FW	18.2GB	Two	25L3112	59H3760	42F7300	34L2857	21H2713

N = Number of SCSI connector on 7204
SE Single-Ended DE Differential

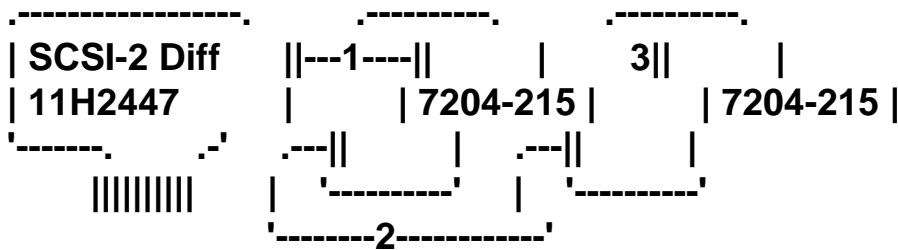
In case of SCSI error on 7204-113/114/317/325 => first changed power supply

Y-Cable
EPOW SE-to-DE SCSI
Cable Card Cable

| 7204-320 | 81F8207 |	|	|	|
| 7204-001 | 81F8207 |	|	|	|

7204-010	74G8547		
7204-112	87G4867		
113			
114			
7204-118/	87G4863		
7204-215	74G8543		
7204-315	87G1367		
7204-317	87G4874		
325			
7204-402	59H3335	74G8270	
404			
7204-418	87G4897		
7204-409	74G8559		
419			

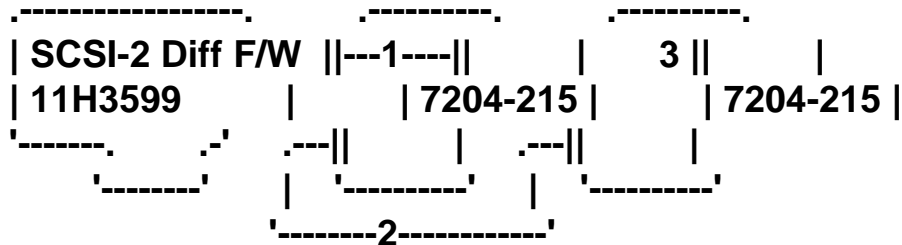
7204-215 cabled with SCSI-2 Differential Adapter #2420 Type 4-2



Part Description	FC	PN	Length
1- Cable Adapter-to-Device	#2854/9138	87G1358	0.66m
	#2921/9221	67G0593	4.75m
	#2923/9223	95X2494	8.0 m

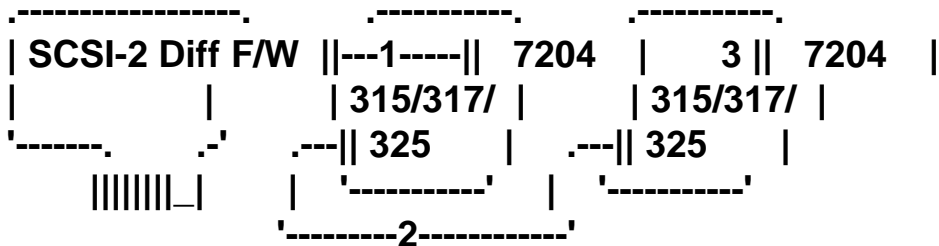
2- Cable 7204-215-to-7204-215	#2848/9134	74G8511	0.66m
	#2925/9225	95X2492	2.0m
3- Terminator 50-pin lo-density narrow....	#2847/9133	79X3795	N/A
	#2847/9133	87G1356	N/A

7204-215 cabled with SCSI-2 Differential Fast/Wide #2416 Type 4-6



Part Description	FC	PN	Length
1- Cable Adapter-to-Device	#2438	88G3636	1.5m
2- Cable 7204-215-to-7204-215	#2848/9134	74G8511	0.66m
	#2925/9225	95X2492	2.0m
3- Terminator 50-pin lo-density narrow....	#2847/9133	87G1356	N/A

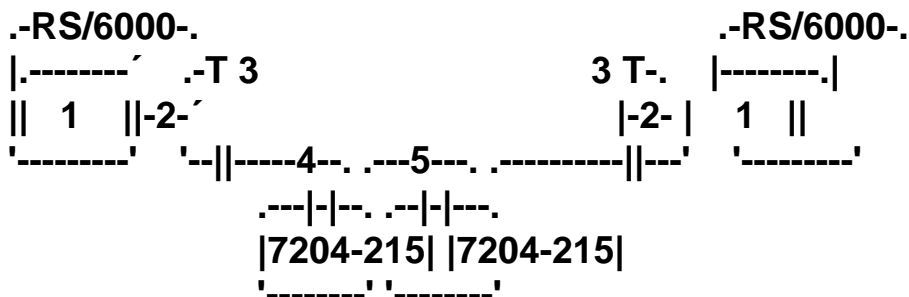
7204-315/317/325 cabled with SCSI-2 Differential Fast/Wide #2416 Type 4-6



Part Description	FC	PN	Length
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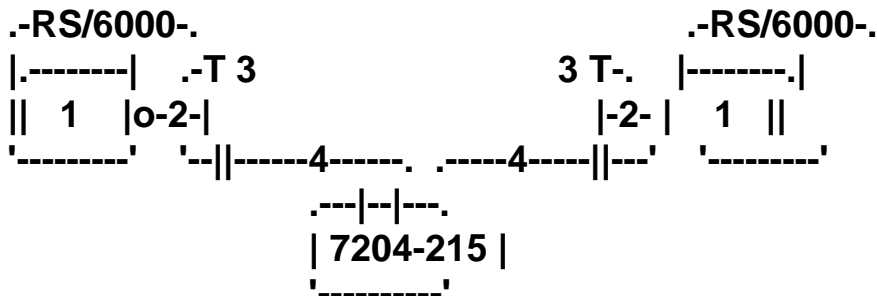
1- Cable Adapter-to-Device 16bit wide.....	#2436	52G4337	1.5m
2- Cable 7204-315-to-7204-315.....	#2845/9131	52G4291	0.66m
	#2846/9132	52G4233	2.5m
3- Terminator 68-pin hi-density wide.....		61G8324	N/A

**High-Availability
7204-215 Differential Unit and SCSI-2 Diff Type 4-2**



Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Type 4-2.	#2410	43G0176	
2- Y-Cable	#2422	52G7348	0.765m
3- Terminator.....	#2422inc	52G7350	
4- Cable Y-to-7204-215 narrow....	|2854/9138|	87G1358	0.6m
	|2921/9221|	67G0593	4.75m
	|2923/9223|	95X2494	8.0m
5- 7204 Cable unit-to-unit.....	|2925/9225|	95X2492	2.0m

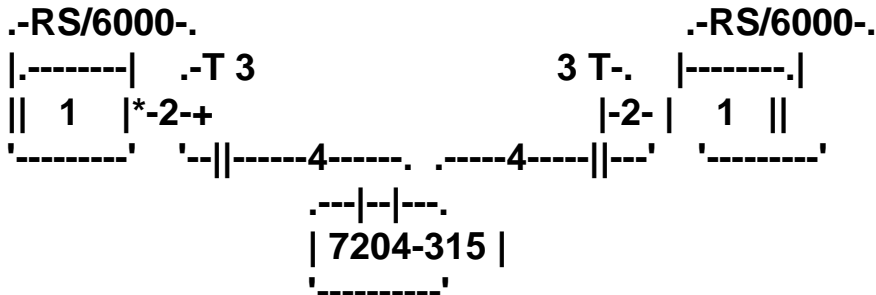
**High-Availability
7204-215 with SCSI-2 Diff Fast/Wide Adapter/A Type 4-6**



Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Type 4-6.	#2416	65G7315	
2- Y-Cable (narrow).....	#2427	52G4349	0.765m
3- Terminator (narrow 8-bit).....	#2427inc	52G7350	
4- Cable..Y-To-device...narrow.....	2854/9138	87G1358	0.6m
	2921/9221	67G0593	4.75m
	2923/9223	95X2494	8.0 m

High-Availability

7204-315/317/325with SCSI-2 Diff Fast/Wide Adapter/A Type 4-6



Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Type 4-6.	#2416	65G7315	
2- Y-Cable wide.....	#2426	52G4234	0.94m
3- Terminator wide.....	#2422inc	61G8324	
4- Cable Y-Cable-to-device High-Avail wide.	2845/9131	52G4291	0.6m
	2846/9132	52G4233	2.5m

Updated Nov 2002 by Bruno Croft



9334

- [9334-010 SCSI Unit](#)
- [9334-011 SCSI Differential Unit](#)
- [9334-500 SCSI Unit](#)
- [9334-501 SCSI Differential Unit](#)

Aug 2002



7131 7133 7134 7135 7137

[Dave Adams Web Site](#)

[7131-105 SCSI Tower](#)

[7131-405 SSA Tower](#)

[7133 Microcode](#)

[7133-010 SSA Disk Subsystem](#)

[7133-020 SSA Disk Subsystem](#)

[7133-500 SSA Disk Subsystem](#)

[7133-600 SSA Disk Subsystem](#)

[7133-D40/T40 SSA Disk Subsystem](#)

[7134-010 SCSI Subsystem](#)

[7135-010 RAIDiant Array](#)

[7135-110 RAIDiant Array](#)

[7135-210 RAIDiant Array](#)

[7137-XXX Disk Array Subsystem](#)

[7190-100/200 Disk Array Subsystem](#)

Jan 2003 BJ Croft



1.1GB SSA DISKS

FRU	FC	Description
88G6195, 07H8230	3101	DFHCC1B1 7133-010/020/500/600
42G9592		9333 only.
07H8230	3101	7133

Updated: Mar 2003



2.2GB SSA DISKS

FRU	FFC	DIM	FC	Description
88G6196, 88G6400.			3201	DFHCCxB1 Starfire (x = capacity) 7133-10/20/500/600

88G6197, 02L7551.				DFHCCxB1 (x=capacity) Scorfire 7133-10/20/500/600
----------------------	--	--	--	--

Typical VPD example:

DEVICE	LOCATION	DESCRIPTION
pdisk0	00-01-P	2GB SSA C Physical Disk Drive

```

Manufacturer.....IBM
Machine Type and Model.....DFHCC2B1
Part Number.....02L7551
ROS Level and ID.....9390
Serial Number.....6810F8F7
EC Level.....E29646
Device Specific.(Z2).....RAMSC093
Device Specific.(Z3).....02L7551
Device Specific.(Z4).....97239

```

Last Updated 19 Jan 2000 by Bruno Croft

4.5GB SSA DISKs

- [Check microcode level](#)

FRU	DIM	FC	DESCRIPTION
09L1688			Subs to 09L1848
09L1848			DGHC04B 7,200 RPM - Sailfin Used in 2105, 7133-D40/T40.
09L2214			Use 09L4253 for F50
09L2273	XXX		DFHCC4x1 Sailfire (x=B or C) 7133-10/20/500/600
09L4253	1.0		DFHCC4C 7025-F50 7026-H50 CRU that replaces 99F7898 7131-405
09L4294			Subs to 09L1848
09L4301.			Subs by 09L2273
27H1698			Subs to 59H6259
59H6259	1.0	3071	Subs to 09L4253 old VPD
89H4941.			Subs to 88G6199
88G6198		3401	DFHCC4B1 Starfire by IBM - VPD 7133-10/20/500/600 NOTE: If you are using F/C 6215 PCI 4-N or 6219 MCA 4-M then the minimum code levels is 8877 for this DFHC drive. Replaces 88G6401.
88G6199	XXX		DFHCCxB1 Scorfire CRU - (x=Capacity) 7133-10/20/500/600 VPD
88G6401			Subs to 88G6198

99F7898 1.6

Replaced by 09L4253 1.0" or 59H6259 1.0".
This drive is too thick for 7025-F50

NOTE: If you are using F/C 6215 PCI 4-N or
6219 MCA 4-M then the minimum code levels is 9290 for this

DFHC drive.

Last Update Nov 2003 by Bruno Croft

9.1GB SSA Disks - FFC 6CC

thick, cannot replace a thin.

FRU	FC	Description
03N2837	XXXX	DRVC 10K RPM in a F50 blue carrier F40/F50/H50/H70 - FFC 6CC Not F80 because of carrier type
03N4139	3079	DMVC 10K RPM 7025-F80/6F0/6F1 includes carrier
09L1812		Replaced by 34L8484
09L1847	8209	DGHC09B 7,200 RPM Sailfin - VPD 7133-D40/T40 10K RPM is also used in 7133-D40 Be sure you choose the right one. Replaces 09L4295
09L2213		Not a valid FRU - uses 09P0618
09L2272		Replaced by 09L2274
09L2274		DCHC09x1 Sillion (x=B or C) Follow on to Scorpions 7133-020/600 / 2105 Replaces 09L4302, 09L2272
09L4258	2513	DCHC09C Hot Swap 7025-F50 & 7131-405
09L2213		Invalid - uses 09L4258
09L4295		Replaced by 09L1847
09L4302		Replaced by 09L2274

09P0618		FFC 6CC - Includes blue carrier F40/F50/H50/H70
09P4943		10K Disk/Carrier U3 7025-F80/6F0/6F1
18P2196		10K RPM 2105 For 7133-D40/T40: sub to 18P4046 as possible See RETAIN H171201
18P4046		UCD2 10K 7133-D40/T40
18P6110		UCDY 10K 7133-D40/T40 sub to 18P4046
21H8734	3089	DCHC 1.6" Subs to 09L4258 in a blue-handled carrier Drive carrier asm 27H1047 Blank to complete loop 93H4315
34L2256		Subs to 03N2837 Note: 03N2837 is not for F80 Use 03N4139 for F80
34L7769		Replaced by 34L8484
34L6412		Replaced by 34L8484
34L8483		Replaced by 34L8484
34L8484	3078 8509	DRVC09B Mako - 10K RPM 1.6" 7133/D40/T40 / 7025-F30/F40/F50 / 7026-H10/H50/H70 - VPD P/N 34L2291 Replaces 09L1812 - 34L6412 - 34L7769

34L6473		Subs to 18P2196
34L6474		Subs to 18P2196 DMVC09B Thornback 10K RPM 7133-D40/T40 - 2105
88G6200	XXXX	DCHC09B1 Scorpion 7133-020/600
CRU	FC	Description
89H4940	3901, 3908, 3916	DCHC Scorpion CRU - Can be replaced by 88G6200 VPD

Last Update Feb 2004 by [Bruno Croft](#)

18.2GB SSA DISK

FRU	VPD P/N	FC	Description	*
09L1696			Subs to 09L1849	
09L1813			DRVC18B Subs to 34L8486 - VPD example	
09L1849		8218	DGHC18B - 7,200 RPM Marlin 20MB/s 7133-D40/T40 (1) 10K RPM FC 8518 is also used in 7133-D40 Be sure you are replacing by the right one.	
09L4296			DGHC18B Subs to 09L1849 - VPD example	
09P0620	09P0620	3077	DMVC18G 10K - VPD example 7025-6F1	
09P4944			Disk/Carrier U3 10K 7025-F80/6F0/6F1	
18P2198	18P2197	8518	DMVC18B IBM 10K - See H171201 1)7133-D40/T40 If not available, use 18P4051 or 18P6111 2) For 2105 use 18P4136	
18P4051			ST3XX Cheetah 10K 7133-D40/T40 If not available, use 18P6111 or 18P2198	
18P6111			UCDY 10k 7133-D40/T40 If not available, use 18P4051 or 18P2198	
34L6413			Subs to 34L8486	

34L6459		Subs to 34L8486 2105
34L6471		Subs to 18P2198
34L6472		DMVC18B 10k RPM Stingray Use 18P4051 for 7133-D40/T40
34L7770		Subs to 34L8486
34L8485		Subs to 34L8486
34L8486	8518	DRVC18B - 10K RPM Hammerhead - 40/20MB/s - 7133-D40/T40 (1) 7200 RPM FC 8218 is also used in 7133-D40 Be sure you are replacing by the right one.

Last Update Feb 2004 by [Bruno Croft](#)

36.4GB SSA DISK

FRU	VPD P/N	FCC	FC	Description
09P0624	XXXXXXXX	6CC	3822	DRVC 10K Manta RIO - In a SP carrier 9076 System
09P4946		6CC		10K Ultra3 Disk/Carrier 7025-F80/6F0/6F1
18P2200		6CC	8536	DMVC36B 10k Rpm In 7133-D40/T40, use 18P6112
18P6112	18P5813			UCDY 10K RPM 7133-D40-T40 Current FRU
34L6414				Subs to 34L7771
34L6460				Subs to 34L7771
34L6475				Subs to 18P2200
34L6476				Subs to 18P2200
34L7771		XXX	8436	DRHC36B 7200 RPM Swordfish ?0MB/s 7133-D40/T40

Updated Dec 2003 by [Bruno Croft](#)



RSINFO/6000

73GB SSA DISK

P/N	FCC	FC	Description
18P4619			IBM-ESXS ST37340 For M/T 7133 order 18P4620 For M/T 2105 order 18P4621
18P4620			If 18P4620 is not available, you can use 18P6113
18P4053			ST37340 Subs to 18P4620
18P6113			UCDY 7133-D40/T40 Require BB00 microcode

Updated March 2004 by [Bruno Croft](#)

2105 Enterprise Storage Server

Manuals & Doc:

- [SDD Subsystem Device Driver - Installation and User's Guide PDF](#)
- [SDD Troubleshooting](#)
- [/ Troubleshooting](#)
- [ESS Matrix](#)
- [SDD/DPO Installation Procedures/ Potential Gotchas](#)
- [Download Host Attachment script \(ibm2105.rte\)](#)

Updated Jan 2003 - Bruno Croft



9333

- [9333-010 Subsystem](#)
- [9333-011 Subsystem](#)
- [9333-500 Subsystem](#)
- [9333-501 Subsystem](#)

Aug 2002

Type	Size	FFC	P/Ns	Length	Where used	QIC	150MB	971	
<hr/>									
16G8423,			7207-001						
			00G2636					525MB	
991	46G2700		7207-011						
<hr/>									
			8191184						
2.0GB	998	8191193		RS/6000, 7206-001				4mm	
<hr/>									
					4.0GB	915	16G8453		
<hr/>									
								8mm	
2.3GB	972	16G8421, 112m		RS/6000, 7208-001					
		31G9487							
<hr/>									
						5.0GB	994		
8191045	112m	RS/6000, 7208-011,		Not in					
				9334-010/500.		9334-011/501 !			
<hr/>									
9334-011/501 Only		Not RS/6000 !				914	87G1632	112m	
	7GB	749	8193842	160m	7331-205			Not in 7208 !	
<hr/>									
								20.0GB	
59H2835	170m	7208-341		Differential					
<hr/>									
						964	59H2839		
<hr/>									
Internal white #6154									
		59H4120		Internal black #6156					
		59H2835		External 7208-341 DIFF					

Tape Drive - Density# Parameter (as in smit Show Char of Tape Drive)

```

QIC525 -----+ +----- DDS||| 2GB
QIC150 -----+ | | | | +----- DDS2 4GB
QIC120 --+ | | | | +----- DDS3 12GB
Factory Power _____ +----- 2.3GB No Data
Compression on default | | | | | | | +- QIC1000
| | | | | | | | +----QIC-2GB
DC | | | | | | | | +----QIC-5010-
4mm DDS3 | | | | | | | | +-----
+----4mm DDS4 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Density 1 & 2 | 0 | 2 | 3 | 15 | 16 | 17 | 19 | 36 | 37 | 20 | 21 | 34 | 33 | 37 | 38 |
39 | 140 | Dens 1&2 |
| | | | | | | | | | | | | | | | |
| 4mm 12/24GB | | | | | | | | X | X | X | | | | | |
| | | | | | | | | | | | | | | |

```

QIC	7207-001	0=16			X	X													
		Yes																	
	7207-011	0=17			X	X	X												
		Yes																	
	7207-012	0=21			X	X	X						X						
		Yes																	
	7207-315	0=33			X	X	X						X	X	X				
		Yes																	
8mm	7208-001	N/A																	
		No																	
	7208-011	0=140											X	X					
	X	140 / 20																	
	7208-341	0=39																	
X		39 / 39																	
9trk	9348-012		X	X															
		Yes																	

1600bpi

5gb No Data Compression

6250bpi

5gb Data Compression

DLTtapeIIIxt 30GB -----+ +----- DLTtapeIV 40GB
 DLTtapeIII 20GB Default-----+ +----- DLTtapeIV 70GB
 DLTtapeIII 6GB No comp-----+ +-----
 DLTtapeIII 2.6GB No comp-----+ +- 8mm 20GB
 20GB default

		0	2	23	24	25	25	26	27	39
8mm	7208-341	0								X
DLT	7205-311				X	X	X	X	X	X
8mm	7337-001	N/A								

Tape Format Specification

Tape Drive	Rewind when	Retention before	Density
------------	-------------	------------------	---------

Device Name	finished	starting	Used
/dev/rmtx	Yes	No	#1
/dev/rmtx.0			#1
/dev/rmtx.1	No	No	#1
/dev/rmtx.2	Yes	Yes	#1
/dev/rmtx.3	No	Yes	#1
/dev/rmtx.4	Yes	No	#2
/dev/rmtx.5	No	No	#2
/dev/rmtx.6	Yes	Yes	#2
/dev/rmtx.7	No	Yes	#2

x=tape# (ex: rmt0)

Tape Format Specification for 3490E, 3590 , Magstar MP or 7332 Tape

Tape Drive Device Name	Rewind when finished	Retension before starting	Bytes /inch	Trailer Label	Unload on Close
/dev/rmt*	Yes	No	N/A	No	No
/dev/rmt*.1	No	No	N/A	No	No
/dev/rmt*.2	Yes	Yes	N/A	No	No
/dev/rmt*.3	No	Yes	N/A	No	No
/dev/rmt*.4	Yes	No	N/A	No	No
/dev/rmt*.5	No	No	N/A	No	No
/dev/rmt*.6	Yes	Yes	N/A	No	No
/dev/rmt*.7	No	Yes	N/A	No	No
/dev/rmt*.20	Yes	No	N/A	No	Yes
/dev/rmt*.40	Yes	No	N/A	Yes	No
/dev/rmt*.41	No	No	N/A	Yes	No
/dev/rmt*.60	Yes	No	N/A	Yes	Yes
/dev/rmt*.null	Yes	No	N/A	No	No
/dev/rmt*.smc	N/A	N/A	N/A	N/A	N/A

* = tape# (ex: rmt0)

1. Rewind on Close special files write filemarks under certain conditions before rewinding.
2. Retension on Open special files rewind tape on open only. Retensioning is not performed because there tape products automatically perform the retension operation when needed.
3. Bytes per Inch options are ignored for the tape devices supported by this driver. The density selection is automatic.
4. The rmt*.null file is a pseudo device similar to the /dev/null AIX special file. The ioctl call can be issued to this file without a real device attached to it, and the device driver will return a successful completion. Read and write system calls will return the requested number of bytes. This file can be used for application development or debugging problems.
5. The rmt*.smc file can be opened independently of the other tape special files. This special file applies to the IBM 3590. MagstarMP and 7332 devices only.

150MB/7207-001 (QIC-150) Drive Compatibility

Standard	MB	QIC-24	QIC-120	QIC-150	QIC-525	QIC-1000
*DC300XLP	45	R	No	No	No	No
*DC600A	60	R	R/W	No	No	No
DC6037	?	R	R/W	R/W	No	No
DC6150	150	R	R/W	R/W	No	No
*DC6250	250	R	R/W	R/W	No	No
DC6320	320	R	R/W	R/W	No	No
*DC6525	525	R	R/W	R/W	No	No
DC6080	?	R	R/W	R/W	No	No
DC9100		No	No	No	No	No #Magnus 1.0
DC9120		No	No	No	No	No #Magnus 1.2
DC9135		No	No	No	No	No #Magnus 1.35
DC9164		No	No	No	No	No #Magnus 1.6
DC9200		No	No	No	No	No #Magnus 2.0
DC9210		No	No	No	No	No #Magnus 2.1

525MB/7207-011 (QIC-525) Drive Compatibility

Standard	MB	QIC-24	QIC-120	QIC-150	QIC-525	QIC-1000
*DC300XLP	45	R	No	No	No	No
*DC600A	60	R	R	No	No	No
DC6037	?	R	R/W	R/W	No	No
DC6150	150	R	R/W	R/W	No	No
DC6250	250	R	R/W	R/W	No	No
DC6320	320	R	R/W	R/W	R/W	No
DC6525	525	R	R/W	R/W	R/W	No
DC6080	?	R	R/W	R/W	R/W	No
DC9100		No	No	No	No	No #Magnus 1.0
DC9120		No	No	No	No	No #Magnus 1.2
DC9135		No	No	No	No	No #Magnus 1.35
DC9164		No	No	No	No	No #Magnus 1.6
DC9200		No	No	No	No	No #Magnus 2.0
DC9210		No	No	No	No	No #Magnus 2.1

1.2GB/7207-012 (QIC-1000) Drive Compatibility

Standard	MB ³	QIC-24 ³	QIC-120 ³	QIC-150 ³	QIC-525 ³	QIC-1000
*DC300XLP	45	R	No	No	No	No
*DC600A	60	R	R	No	No	No
DC6037	?	R	R/W	R/W	No	No
DC6150	150	R	R/W	R/W	No	No
DC6250	250	R	R/W	R/W	No	No
DC6320	320	R	R/W	R/W	R/W	No

DC6525	525	R	R/W	R/W	R/W	No
DC6080	?	R	R/W	R/W	R/W	No
DC9100		No	No	No	No	R/W #Magnus 1.0
DC9120		No	No	No	No	R/W #Magnus 1.2
DC9135		No	No	No	No	No #Magnus 1.35
DC9164		No	No	No	No	No #Magnus 1.6
DC9200		No	No	No	No	No #Magnus 2.0
DC9210		No	No	No	No	No #Magnus 2.1

Information for the previous 3 pages

* These tapes are not recommended for use on this model 7207 due to incompatibility of the media characteristics and the design of this model of the 7207s head.

Magnus is TM of the 3M Corporation

R Read Only

R/W Read and Write

No Neither Read or Write

Other QIC Standards

DC1000..... 10MB

DC2000..... 40MB

DC2080..... 80MB

DC2120..... 120MB

QIC (1/4") Tape Performance Specifications

MODEL	7207-001	7207-011	7207-012
Formatted Capacity...	120/150MB	525MB	1.2GB
Tape length.....	600ft	1020ft	1020ft
Drive Speed	72inches/sec	120inches/sec	80inches/sec
Recording density....	10,000 data bpi	16,000 data bpi	36,000 data bpi
Recording tracks.....	15/18	26	30
Data buffer.....	64KB	210KB	210KB
DATA RATE			
Sustained.....	90KB/sec	200KB/sec	300KB/sec
Maximum SCSI burst.	1.5MB/sec	2.3MB/sec	3.0MB/sec
Write Buff Full Ratio	Variable	Variable	Variable
Start and stop time	1.5 sec.minimum	1.4_2.0 sec	1.5 sec
Rewind time	1.5 minutes	1.5 minutes	1.5 minutes

8mm Tape Performance Specifications

MODEL

7208-001

7208-011

Capacity	2.3GB	5.0GB
Write Access	2.6 msec	2.6 msec
Read Access	2.7 msec	2.7 msec
Reposition Time	1.115 sec	1.115 sec
Cartridge Ucode Load	2.5min	2.5min
SCSI Bus code Load	1.5min	1.5min
Rewind	6min	6min
POST	60sec	60sec
Data buffer	1MB	1MB
DATA RATE		
Sync(burst)	4MB/sec	4MB/sec
Async(burst)	1.5MB/sec	1.5MB/sec
Sustained	246KB/sec	500KB/sec
Drum Speed	1922.607 rpm	1831.055 rpm
Tape Speed	11.633 mm/sec	11.079mm/sec

4mm Performance Specifications

Parameters/Format	DDS2	DDS
Capacity	4-8GB *	2-4GB *
Access Time	20 sec(average)	20 sec (average)
Reposition time	1 sec (average)	1 sec (average)
Load Time	15 sec (Maximum)	15 sec (maximum)
Rewind Time	2m/sec	2m/sec
Data Buffer	1MB	1MB
Data rate: sync (burst)	5MB/sec	5MB/sec
async (burst)	5MB/sec	5MB/sec
sustained	400-800KB/sec *	183-366KB/sec *
Track length	23.501mm	23.501mm
Track width	9.1æm	9.1æm
Track density	110.39tracks/mm	73.58 tracks/mm
Recording density	61Kbits/inch	61Kbits/inch
Drum speed	4400rpm	4400rpm
Tape Speed	17.93mm/sec	17.93mm/sec
Head-Tape speed	6.895 m/sec	6.895 m/sec
Track angle	6ø	6ø

* This value is based on a range from no data compression to 2x data compression.

Last update: feb 15 2002

Atape and atltd Info

Site #1

- [README](#)
- CODE Atape and atltd: [AIX](#) | [HPUX](#) | [Solaris](#) | [WinNT](#) | [Win2000](#)
- User's Guide IBM SCSI Tape drive and Medium Changer: , [Postscript](#) | [PDF \(Acrobat\)](#)

Site #2

- CODE Atape and atltd: [AIX](#) | [HPUX](#) | [Solaris](#) | [WinNT](#) | [Win2000](#) Postscript User's Guides:

[IBM SCSI Tape Drive, Medium Changer and Library Device Drivers - Programming Reference](#)
- User's Guide IBM SCSI Tape drive and Medium Changer: [Postscript](#) | [PDF \(Acrobat\)](#)

Files of interest:

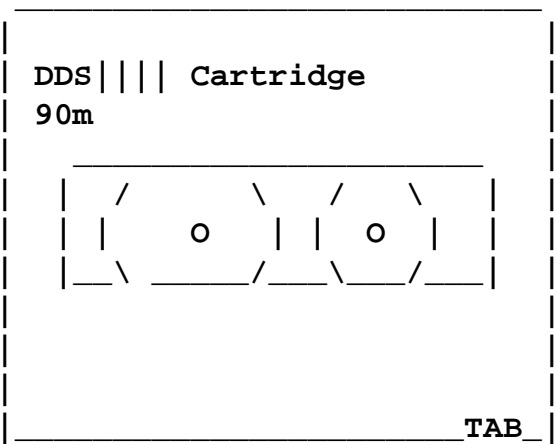
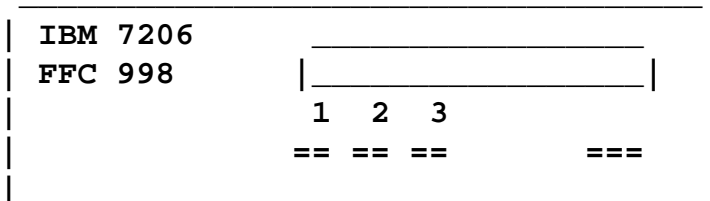
/devdrv/README

/devdrv/README.CURRENT.EC

/devdrv/IBM_scsi_tape_IUG.ps.Z

/devdrv/AIX/Atape.x.x.x.x.bin <- where x is the Atape level

IBM 4mm 2GB Tape Drives Internal & External 7206-001



TAB
<-- protected
write enable -->

- No downloadable microcode

Parts	FRU
Tape drive 2GB all except below.....	8191193
6015 & 7020.....	16G8404
Power Supply (2GB).....	46G3934
Test Tape 2GB DDS ||||.....	21F8762
Fan 7206-001.....	42F7300
Media Kit (includes 3 cartridges: data, test and cleaning cartridges)	
2GB.....	21F8764
Data Tape:	
DDS |||| 90m.....	21F8758
Cleaning Tape	21F8763
	59H3090 50 cleaning
(59H3090 may give some problems. SEE HSF H052172 EMEA or H166169 USA)	

Indicator Lights			Status
Ready 1	Read/Write 2	Disturbance 3	
Flashing	Off	Off	POST or diag cartridge running
Off	Off	Off	POST ended and no cartridge.
On	Off	Off	Cartridge inserted - tape ready
On	Flashing	Off	Tape in motion or cleaning.
Off	Off	Flashing	Internal fault/ Hi humidity

Off/On	Off/Flashing	On	Cleaning required/ Poor quality tape
--------	--------------	----	---

Type	DDS ||||		DDS2	
Format	2GB		4GB	
7206-001 (2GB)	R/W	R/W	No	No

Drive and Media Interchange

MRS Media Recognition System - Special markings on the tape that are recognized by the drive to determine that the tape has Data Grade media.

DDS |||| Tape cartridge type for 90 meter tape with MRS. DDS-1 Format

DDS-1 Format of the tape with 2GB capacity on a 90 meter tape.

DDS-2 Format of the tape with 4GB capacity on a 120 meter tape
(not supported on a 7206-001 and the internal 2gb tape drive.

Some commands that may reset the error condition (flashing light)

1) `diag -c -d rmtX`

OR

2) `tctl -f /dev/rmtX reset`

... followed by

`tctl -f /dev/rmtX offline`

Last update 19 Jan 2000 by Bruno Croft

In 7248:

FRU	VPD P/N	Gener	UCODE	Codename
59H3480	59H3468	6560		
59H3480	59H2681	5ALG		
59H3480	16G8452	4CO0		

Indicator Lights			Status
Ready 1	Read/Write 2	Disturbance 3	
Flashing	Off	Off	POST or diag cartridge running
Off	Off	Off	POST ended and no cartridge.
On	Off	Off	Cartridge inserted - tape ready
On	Flashing	Off	Tape in motion or cleaning.
Off	Off	Flashing	Internal fault/ Hi humidity
Off/On	Off/Flashing	On	Cleaning required/ Poor quality tape

7206-005 is a 2 connectors device

System	Unit	#	#	-----+	#	#	7206-005	|	SCSI	|	#	#	Device	|	-----+
--------	------	---	---	--------	---	---	----------	--	------	--	---	---	--------	--	--------

Type	DDS ||||		DDS2	
Format	2GB		4GB	
Compression ->	No	Yes	No	Yes

7206-001 (2GB)	R/W	R/W	No	No
7206-005 (4GB)	R/W	R/W	R/W	R/W

Drive and Media Interchange

MRS Media Recognition System - Special markings on the tape that are recognized by the drive to determine that the tape has Data Grade media.

DDS||| Tape cartridge type for 90 meter tape with MRS. DDS-1 Format

DDS1 Format of the tape with 2GB capacity on a 90 meter tape.

DDS2 Format of the tape with 4GB capacity on a 120 meter tape.

Microcode: 4GB4MM package in AIXTOOLS

P/N	FRU	Microcode Level (new to old)
-----	-----	--------------------------------

87G4925	51H5172	4BKC
21H5154	21H5172	5ALG, 562B

```

Manufacturer.....ARCHIVE
Machine Type and Model.....IBM4326NP/RP  !D
Device Specific.(Z1).....5ALG
Serial Number.....DR0GX2Z 0011
Device Specific.(LI).....0011
Part Number.....21H5154
FRU Number.....59H3481
EC Level.....E30312
Device Specific.(Z0).....0180020283000018
Device Specific.(Z3).....L1

```

Some commands that may reset the error condition (flashing light)

1) diag -c -d rmtX

OR

2) tctl -f /dev/rmtX reset

... followed by

```
tctl -f /dev/rmtX offline
```

Last updates: Oct 2002 by Bruno Croft



IBM 12/24 4mm Internal Tape Drive & External 7206-110

AIX 4.1.5 + IX69941 devices.scsi.tape.rte 4.1.5.3
 AIX 4.2.x.x + IX69950 devices.scsi.tape.rte 4.2.1.1
 AIX 4.3

FFC 678	1	2	3	4
Microcode	==	==	==	===

DESCRIPTION	FRU	VPD P/N
Tape Drive	59H3879	59H2809
Cartridge:		
Data DDS3 125m.....	59H3465	qty-1
Test 15m.....	59H3466	
Cleaning.....	21F8763	
Power Supply 7206-110.	59H3760	

4 = Unload Button

Indicator Lights			Status
Ready 1	Read/Write 2	Disturbance 3	
Flashing	Off	Off	POST or diag cartridge running
Off	Off	Off	POST ended and no cartridge.
On	Off	Off/On	Cartridge inserted - tape ready
On	Flashing	Off/On	Tape in motion or cleaning.
Off	Off	Flashing	Internal fault/ Hi humidity
Off/On	Off/Flashing	On	Cleaning required/ Poor quality tape

Media Type	Device Compatibility	SMIT Density Setting
DDS1	Read Only	N/A
DDS ||||	READ/ WRITE 2GB Mode Only	19
DDS2	READ/ WRITE 4GB Mode Only	36
DDS3	READ/ WRITE 12GB Mode Only	37

SCSI | Jumper | Jumper | Jumper |



RSINFO/6000



IBM 7206-220 20/40GB 4mm SE 16-bit
& Internal Tape Drive FC #6158- FFC 68C

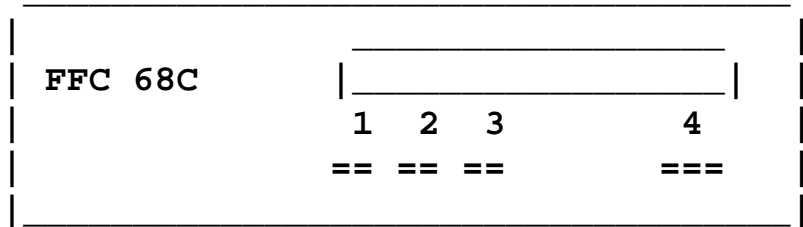
AIX Require: 4.1.5 -> IX69941
4.2 -> IX69950
4.3 -> OK

Microcode: <http://www.austin.ibm.com/support/micro/download.html>

DESCRIPTION	FRU
Tape Drive	19P0802
Auto-docking Asm 6M2	09P2653

Cartridge:

Data DDS4 150m.....	59H4458
Test	59H4457
Cleaning 50-dot.....	21F8763
Power Supply.....	59H3760
Cooling fan.....	42F7300



4 = Unload Button

Indicator Lights

1	2	3	Definition
---	---	---	------------

Ready Activity Fault

Flash	Off	Off	POST or diag cartridge running
-------	-----	-----	--------------------------------

On			Cartridge in the drive
----	--	--	------------------------

		On	Requires cleaning
--	--	----	-------------------

	Flash		Tape movement occuring.
--	-------	--	-------------------------

Off	Off	Off	1) Power is OFF or 2) POST completed, no tape
On	Flash		tape in motion
Off	Off	Flash	Internal fault Do: 1) Power off 2) Hold down the open/ close button for 8 secs

Compatibility: **Density setting**
DDS2 READ/ WRITE 4GB Mode 36
DDS3 READ/ WRITE 12GB Mode 37

General:

Up to 40GB in compression depending of type of data.
Transfer rate: 3MB/s 6MB/s in compression
Media Recognition system that allows only data-grade media.

- **DDS1 test tape 21F8762 will be ejected**
- **DDS2 Test tape 8191146 will do automatic diagnostics**
- **TAPE_ERR6 indicates cleaning is required.**

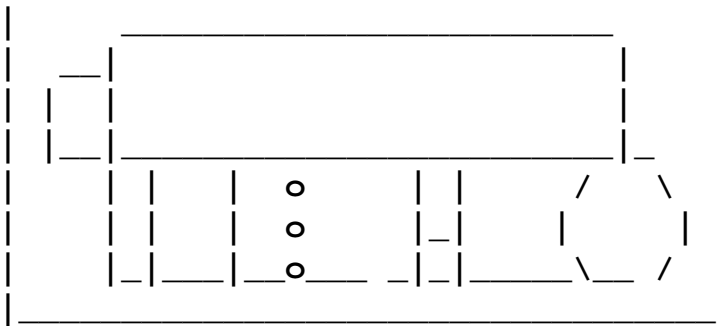
Cabling:

Device-to-device .7m 68p-to-68p.. 52G4291
System-to-Device 1m 68p-to-68p.... 06H6036
System-to-Device 1.5m CC68-to-68p. 52G9501
System-to-Device 1.5m..... 52G4337
Interposer .3m VHDCI 68-to-68s.... 01K6497
Terminator SE 68p..... 52G9907

Updated Oct 2004 by Bruno Croft

IBM 7206-336 Tape Drive

- Announcement letter [A03-1533](#)
- Technical [7206 Home Page](#)



Tape drive DAT72.....	18P8779
Data cartridge	18P7912
Test Cartridge.....	59H4457
Cleaning cartridge.....	21F8763
Power Suppy.....	59H3760
Cooling fan.....	42F7300

Cabling:

Device-to-device

0.7m 68p to 68p..... 52G4291

System-to-Device:

1.0m 68p to 68p..... 06H6036

1.5m CC68 to 68p..... 52G4337

1.5m..... 52G9501

Terminator

LVD/SE 68p..... 35L0145

SE 68pin..... 52G9907

Interposer:

0.3m.VHDCI 68 to 68s..... 76H0518

Created: Jan 2004

Updated: Feb 2004 Bruno Croft

IBM 7332-005 4mm Cartridge Autoloader

The requested drivers can be obtained from the following ftp site:

ftp://index.storsys.ibm.com/storage/AIX (198.80.6.2)

ftp://ftp.software.ibm.com/storage/devdrv/AIX (198.80.6.2)

[AIX Atape Device Driver](#) and select the version of your choice

[Atape Postscript Manual](#) and select IBM_scsi_tape_IUG.ps

[README](#) IBM 7332-005 4mm DDS-2 Tape Autoloader

	Description	P/N
IBM 7332	Autoloader asm.....	59H3553 <- 21H2736
<- 87G1488		
FFC 745	Magazines:	
	4-Cartridge.....	87G4885
	12-Cartridge.....	87G4886
	Data Cartridge DDS2	8191151 4GB format,
120m (8191160)	DDS| | | |	21F8758 2GB format,
90m Also supported	Cleaning Cartridge.....	21F8763 50
cleanings - Recommended - See HSF H166169		59H3090 20
cleanings - This is the one in the manual		but some
problem are reported.		
	Diagnostic Cartridge...	8191146
	Media Kit.....	8191149
	PowerSupply.....	46G3934
	Fan asm.....	55F9421
	Switch Adr Cable.....	74G8181

SCSI Cables:	P/N
Internal.....	8191223
System-to-device.....	33F4606 8-bit with piggyback connector
	70G9858 68-pin Wide SCSI like 7025-F50
	8191425
	92F2559
Device-to-device.....	33F4607
	31F4222
SCSI Terminator.....	52G4260

NOTE: This tape drive needs SYSBACK or ADSM software to work with multiple cartridge without human intervention.

Last update 18 Jan 2000 by Bruno Croft

IBM 7332-110 DDS-3 4mm 12GB Cartridge Autoloader

To use the autoloader features of the 7332, you must install the Atape device driver that you received on a diskette.

The requested drivers can be obtained from the following ftp sites:

NEW ftp://ftp.software.ibm.com/storage/devdrv/AIX
 OLD index.storsys.ibm.com (198.80.6.2) (not updated)

[AIX Atape Device Driver](#) and select the version of your choice

[Atape Postscript Manual](#) and select IBM_scsi_tape_IUG.ps

[README](#) IBM 7332-110 4mm DDS-3 Tape Autoloader

	Description	P/N
IBM 7332	Autoloader asm.....	59H4168
FFC ???	Magazine 4-Cartridges..	87G4885
	Data Cartridge.....	59H3465
	Cleaning Cartridge....	21F8763 20 times
	Test Cartridge.....	59H3466
	Swab Kit.....	94F7860
	Power Supply.....	46G3934
	Fan asm.....	55F9421
	Switch Adress Cable....	74G8181
	Address Switch Asm.....	59H4114

SCSI Cables:	P/N
Internal.....	8191223
System-to-device.....	33F4606 1.5m 8-bit with piggyback connector
	70G9858 1m 68-pin Wide SCSI like 7025-F50
	8191425
	92F2559 1.5m
Device-to-device.....	33F4607 0.6m
	31F4222
SCSI Terminator.....	52G4260

NOTE: This tape drive needs SYSBACK or ADSM software to work with multiple cartridge without human intervention.

Nov 10 2000

IBM 7332-220 4mm DDS-4 Autoloader

|	_____	|	Tape drive.....
35L1199	|	|	Tape Magazine 6-cartridges.....
35L1200	|	|	Data cartridge 20MB/40MB 150m (492ft)...
59H4458	|	|	Test Cartridge.....
59H4457	|	|	Cleaning cartridge.....
21F8763	|	|	Power Supply.....
46G3934	|	|	Cooling fan.....
55F9421	|	|	

Cabling:

System-to-device 1.5m CC68 to 68p...	52G4337
Device-to-device 0.6m 68P to 68p....	52G4291
1.0m 68p to 68p....	06H6036
Terminator SE 68p.....	52G9907
LVD/SE 68p.....	35L0145

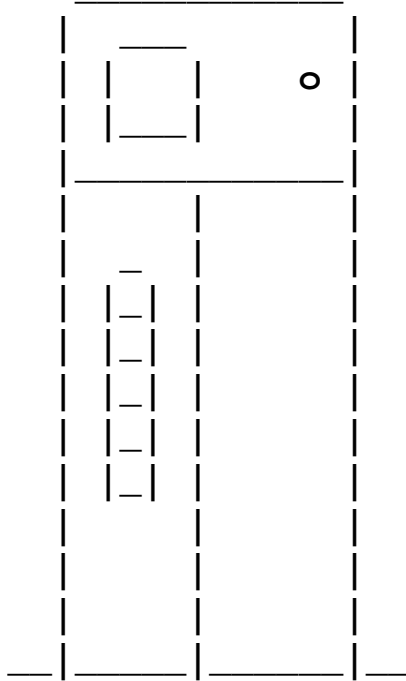
- Downward read and write capability with DDS-2 and DDS-3 data cartridges.
- To use autoloading capability, install Atape device driver.

Created: Sept 29 2000

Updated: not yet

IBM 7336-205 4mm Tape Library

IBM 7336-205 4mm Tape Library



Description	P/N
Tape Drive with bracket	59H2823
SCSI Interface Card....	59H2909
Controller Card.....	59H2831
Control Panel.....	87G1531
Power Supply.....	86G9274
Picker Asm.....	44H3604
Sensor Group.....	86G9260
SCSI Cable Internal....	87G1549
Terminator.....	61G8324
Cartridge Data 120m 4GB	8191151
Cartridge Diag.....	21F8762

FC	SCSI Cable Length	Cable Feature	P/N	Terminator Feature	Interposer Feature
2409	2.5 m	2846	52G4233	2890	Not needed
	4.5 m	2893	88G5749	2890	Not needed
	14.0 m	2894	67G1263	2890	Not needed
2412 or	1.5 m	2844	52G4337	Included	Not needed
	2.5 m	2846	52G4233	2890	2892
2416	2.5 m	2867	46F2441	Included	2892
	4.5 m	2893	88G5749	2890	2892
	14.0 m	2894	67G1263	2890	2892
2420	2.5 m	2866		Included	Included
	14.0 m	2861		Included	Included

Non-IBM SCSI Controller	SCSI Cable Length	Cable Feature	Terminator Feature	Interposer Feature
-----	-----	-----	-----	-----

Fast and Narrow	2.5 m	2866	Included	Included
Differential	14.0 m	2861	Included	Included
Fast and Wide	2.5 m	2867	Included	Not applicable
Differential	14.0 m	2894	2890	Not applicable

Updated Jan 02 2001 by Bruno Croft

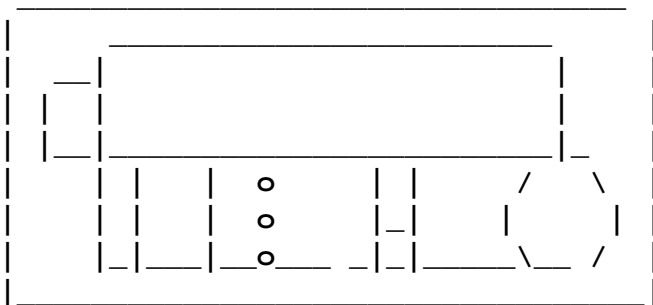
4mm DDS-2 Internal Tape and Autoloader 24/48G Hidalgo

#6153 horizontal/ #6137 vertical FFC 783

This is not a 7332 !

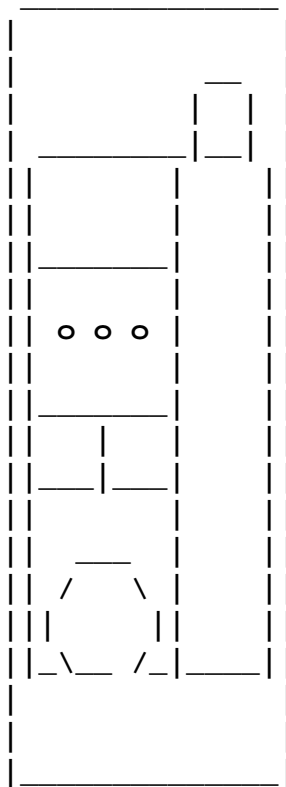
This drive is not supported by ADSM !

Horizontal Orientation



#6153 - FRU 42H2362 (7027)

Vertical Orientation



#6137 FRU 76H0473
(7025-F30/F40/F50)

Tape Magazine 6-cartridges.. 41H8714
 Other cartridges P/N..... See 4mm 4GB DDS2

Options Switches (4 in a red block) MUST be all set to OFF.

Update Dec/6/99

Known problems: mksysb, tar fails

- 1 - The 8 configuration switches (not the red ones) hidden under the metal plate that slides the drive in its bay. They must be all at ON except 3 and 4 at OFF. (RETAIN H137681 H137631)
- 2 - Error "... parameter that is not valid".
Some units needs to have their configuration switches 7 and 8 to be put at OFF.

KNOWN PROBLEM:

There are no microcode available for this type of tape on the web or CORE.
 Microcode for RS/6000 pSeries should lists 9602.
 If the microcode is not 9602 and this is an IBM supplied
 tape drive, order a new unit.

DEVICE	LOCATION	DESCRIPTION
rmt0	04-A0-00-6,0	IBM SCSI 4mm tape drive
Manufacturer.....		HP
Machine Type and Model.....		C1553A
Device Specific.(Z1).....		9602 <---- correct
rmt0	04-A0-00-6,0	Other SCSI Tape Drive
Manufacturer.....		HP
Machine Type and Model.....		C1553A
Device Specific.(Z3).....		2020 <---- incorrect

.

PAGE

Updated: Oct 2002 by Bruno Croft

3580 Ultrium SCSI Tape Drive

Model L11 Ultra2 LVD/SE

Model H11 Ultra HVD/DIFF

- Announcement Letter: US [100-235](#)

FRU

Tape Drive: LVD/SE 35L1220
 HVD/DIFF 35L1217

Cartridges:

- [3589-003](#) 08L9120 IBM LTO Ultrium Data Cartridge
- 3589-004 08L9124 IBM LTO Ultrium Cleaning Cartridge

Cables LVD/SE or HVD/DIFF

HD68 to HD68	19P0872	0.4 m
HD68 to HD68	35L1307	2.5 m
HD68 to HD68	19P0052	5.0 m
HD68 to HD68	19P0053	10.0 m
HD68 to HD68	19P0097	18.0 m
HD68 to HD68	19P0054	25.0 m
VHDCI to HD68	19P0482	Interposer
VHDCI to HD68	19P0279	2.5 m
VHDCI to HD68	19P0050	4.5 m
VHDCI to HD68	19P0048	10.0 m
VHDCI to HD68	19P0049	20.0 m
VHDCI to HD68	35L1977	25.0 m

Terminator

LVD/SE multi-mode terminator	19P0874
HVD terminator.....	61G8324

Tools

Single-connector SCSI wrap tool	LVD	19P0481
	HVD	05H9163
Leader pin reattachment kit.....		08L9129

Some links:

[tapetech](#)

[storage 1](#)

[storage 2](#)

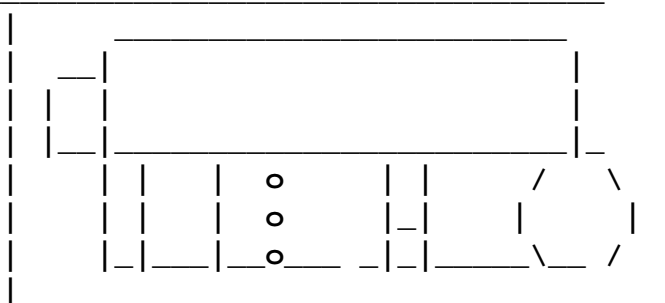
[Technical Support](#)

Created Dec 2000 by Bruno Croft

Updated Jan 2004 by Bruno Croft

IBM 7206-VXA Tape Drive - Jesse James

- Announcement letter [A02-0945](#)
- Technical [PDF](#)
- Install and Using Guide [PDF](#)



Tape drive VX2.....	19P4898	
Data cartridge 80GB.....	10P4876	#250
59GB.....	19P4877	#2506
20GB.....	19P4878	#2505
Test Cartridge.....	19P4879	#2508
Cleaning cartridge.....	19P4880	#2509
Power Suppy.....	19P2064	
Cooling fan.....	42F7300	

Cabling:

VHDCI/HD68:

0.5m.....	19P4507	#5600
1.5m.....	19P4508	#5601
2.5m.....	19P0279	#5602
4.5m.....	19P0050	#5604
10m.....	19P0048	#5610

HD68-HD68:

0.5m.....	19P0051	#5303
0.7m.....	19P0873	#5301
1.5m.....	19P4506	#5300
2.5m.....	35L1307	#5302
5m.....	19P0052	#5305
10m.....	19P0053	#5310

Terminator LVD/SE 68p.....	35L0145	#5097
----------------------------	---------	-------

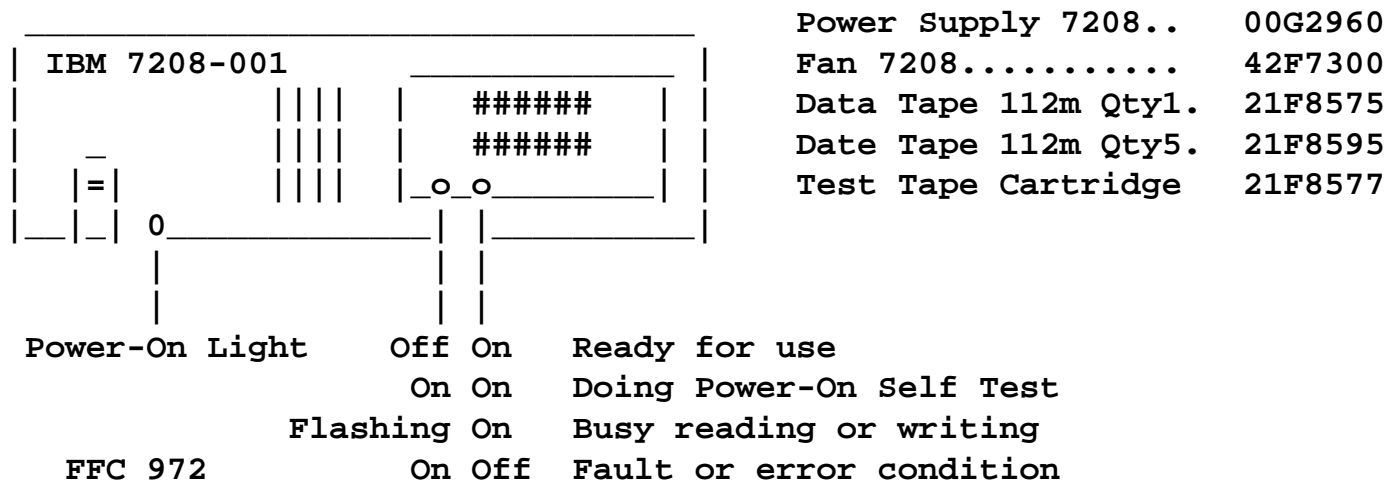
Created: Jan 2004

IBM 2.3GB Internal 8mm Tape Drive #6141

External 7208-001

IBM 2.3GB Internal 8mm Tape Drive / External 7208-001

Tape Drive 2.3GB: 16G8421 <- 31G9487 <- 91F0847 <- 70F9793 <- 21F8842



CLEANING: Every 30 HOURS of tape motion or once a month.

Cleaning Tape Cartridges 16G8467 (more abrasive type)
21F8563 (Old type, less abrasive, subs to 16G8467)

Some usefull commands to know that may reset the error condition
(reset amber flashing light, eject stuck cartridge)

1) diag -c -d rmtX

OR

2) tctl -f /dev/rmtX reset

... followed by

tctl -f /dev/rmtX offline

(X = ID of your tape drive. Example: rmt0, rmt1, etc...)

NOTE: The 2.3GB 8MM tape drive will accept the 160M media when inserted BUT may have unpredictable results on some operations such as, the TCTL

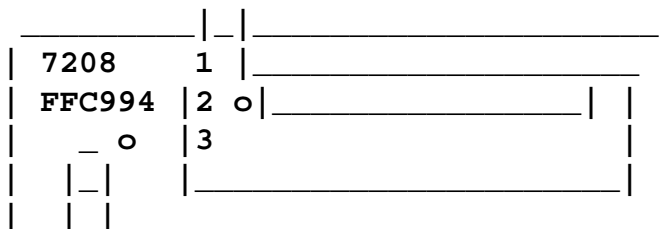
'erase' command which could take up to 9 hours to complete and will NOT complete successfully !

NOTE: There is no downloadable microcode for the 2.3GB tape drive

Updated: Nov 2002 by Bruno Croft

IBM 8mm 5GB Internal Tape Drive #6147 & External 7208-011

Status Lights. . . Unload Button



Power supply:

```

7208-011 s/n <50000..... 46G3934
                    s/n >50000..... 8191380
Fan 7208-011 s/n <50000... 42F7300
                    s/n >50000... 55F9421
Fan internal 7009 7013.... 51G9625
Data Tape 112m Qty5..... 21F8595
Test Tape Cartridge..... 21F8577
Data Tape 112m Qty1..... 21F8575

```

Microcode: [Current level](#) | [History](#)

FRU TAPE DRIVES:

SINGLE ENDED version	FRU	VPD	ucode	
All RS6K,	59H3159	8191044	807A	current one
7208-011,	59H3159	8191044	7Z0A	
and	59H3159	8191044	7R0A	
9334-010/500 media bay	21H5151	8191044	7J0A	
	21H5151	8191044	7A0A	
	87G1687	8191044	730A	
	87G1687	8191044	6S0A	
	87G1631	8191044	6D0A	
	8191045	8191044	520A	
	17G1715	46G2665	46LA	
	17G1715	21F8650	463A	

7013 J Series 19H0204
incl carrier

DIFFERENTIAL version	FRU	VPD	ucode
		P/N	
Used in	59H3160	16G8493	807A
9334-011/501 media bay	59H3160	16G8493	7Z0A
	59H3160	16G8493	7R0A
	21H5152	16G8493	7J0A
	21H5152	16G8493	7A0A
	87G1688	16G8493	6S0A
	87G1632	16G8493	6D0A
	16G8492	16G8493	520A

Status Light

- 1 **Amber** - Z Disturbance - Unrecoverable fault or needs cleaning.
- 2 **Green** - O Ready - Ready to receive command.
- 3 **Green** - Diamond - Busy, tape moving

CLEANING: Every 30 HOURS of tape motion or once a month.

Cleaning Tape Cartridges 16G8467 Current one - min microcode 6S0A - more abrasive
21F8593 The old one, now replaced by 16G8467.
Used only if drive is not a microcode 6S0A

Hints:

Some usefull commands to know that may reset the error condition
(reset amber flashing light - stuck cartridge)

1) diag -c -d rmtX

OR

2) tctl -f /dev/rmtX reset
... followed by
tctl -f /dev/rmtX offline

(X = ID of your tape drive. Example: rmt0, rmt1, etc...)

NOTE: The 5GB 8MM tape drive will reject the 160M media when inserted.

Updated: March 26 2001 by BJ Croft

IBM 7331-205 8mm Tape Library

Cartridge of 7GB

FFC 749

The requested drivers can be obtained via anonymous ftp service

FTP site: index.storsys.ibm.com (198.80.6.2)

Files of interest:

/devdrv/README

/devdrv/README.CURRENT.EC

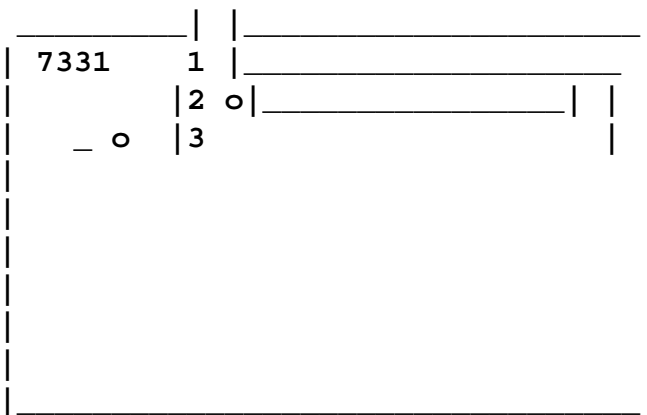
/devdrv/IBM_scsi_tape_IUG.ps.Z

/devdrv/AIX/Atape.x.x.x.x.bin

<- where x is the Atape level

Status Lights+ +- Unload Button
8193842

Tape Drive 7GB..... 59H3161 <-



- Power Supply..... 86G9274
- Fan..... 86G9326
- Picker Asm..... 86G9252
- Op panel Asm..... 87G1531
- Fan..... 86G9326
- Data Cartridge 7GB 160m Qty 1 87G1603
- 7GB 160m Qty 5 87G1601
- 5GB 112m..... 21F8595
- Cleaning Cart 21F8593

Status Light

1. Z Disturbance - Unrecoverable fault or needs cleaning.
2. O Ready - Ready to receive command.
3. Diamond - Busy, tape moving

Cables, terminator and interposer needed to attach 7331-205 to a 4-6 card

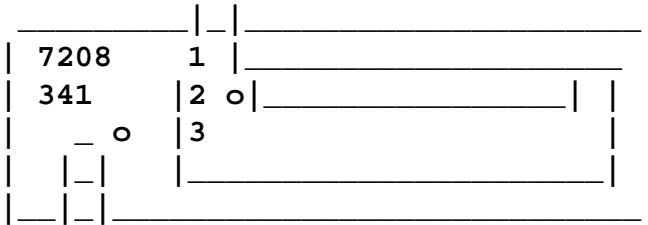
	FC	MES FC	Terminator	Interposer	Length	P/N
Cables	9130	2844	included	not required	1.5m	52G4337
	9132	2846	need #9166	need #9171	2.5m	52G4233
	9172	2893	need #9166	need #9171	4.5m	88G5749
	9172	2894	need #9166	need #9171	14.0m	67G1263
Terminator	9166	2890				61G8324

Interposer	9171	2892			50G0460
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20/40GB Internal SE 8mm Tape Drive #6154 #6156 & External DE 7208-341 FFC964

AIX Version 3.2.5 with PTF 437134 or later
 AIX 4.1.5 (with APAR IX69941) or later
 AIX 4.2 (with APAR IX69950) or later (devices.scsi.tape.rte 4.2.1.1 U450708)
 AIX Version 4.3 or later

Status Lights. .__Unload Button



POWER SUPPLY 7208-341... 87G1642
 Fan 7208..... 42F7300

Current Microcode _____

	TAPE DRIVE P/N
External version F/W DIFFERENTIAL used in 7208-341.	59H2835
Internal version F/W SINGLE-ENDED ...White #6154 ..	59H2839
:.Black #6156...	59H4120

	CARTRIDGE P/N
8mm 2.5GB AME Cartridge 22m (72 ft).....	59H2671
8mm 20GB AME Data Cartridge 170m (558 ft).....	59H2678
8mm AME Cleaning Cartridge.....	35L1409
(See RETAIN H17505 - Don't use 59H2898)	
8mm Test Tape.....	59H2677

This product can be attached to any of these RS/6000 adapters:

- SCSI-2 Differential High-Performance External I/O Controller (#2420)
- Enhanced SCSI-2 Differential Fast/Wide Adapter/A (#2412)
- SCSI-2 Differential Fast/Wide Adapter/A (#2416)
- PCI SCSI-2 Differential Fast/Wide Adapter (#2409)
- PCI SCSI-2 Fast/Wide Differential Adapter (#6209)
- PCI Differential Ultra SCSI Adapter (#6207)

NOTE 1: The 20/40GB 16-Bit 8mm Internal Tape Drive is only **READ** compatible with the 2.3GB, 5GB or 7GB capacity tape cartridges. The drive cannot write to a tape in the 2.3GB, 5GB or 7GB format.

NOTE 2: If this tape drive is used for reading 2.3GB, 5GB or 7GB Metal Particle (MP) media, the user will receive a message to clean the tape drive. Clean the drive with a cleaning cartridge prior to using a 20GB Advance Metal Evaporated (AME) cartridge media.

Status Light

- 1. Z Disturbance - Unrecoverable fault or needs cleaning.
- 2. O Ready - Ready to receive command.
- 3. Diamond - Busy, tape moving

CLEANING: Every 30 HOURS of tape motion or once a month.

- [Current Microcode](#)

VPD example:

DEVICE	LOCATION	DESCRIPTION
rmt0	10-60-00-5,0	SCSI 8mm Tape Drive (20000 MB)

Manufacturer.....EXABYTE
 Machine Type and Model.....IBM-20GB
 Device Specific.(Z1).....37vA
 Serial Number.....60039627
 Device Specific.(LI).....A000001
 Part Number.....59H2813
 FRU Number.....59H2839
 EC Level.....E30233
 Device Specific.(Z0).....0180020283000030
 Device Specific.(Z3).....

Last update Jan 25 2002 by Bruno Croft

IBM 7331-305 8mm Tape Library Cartridge of 20GB

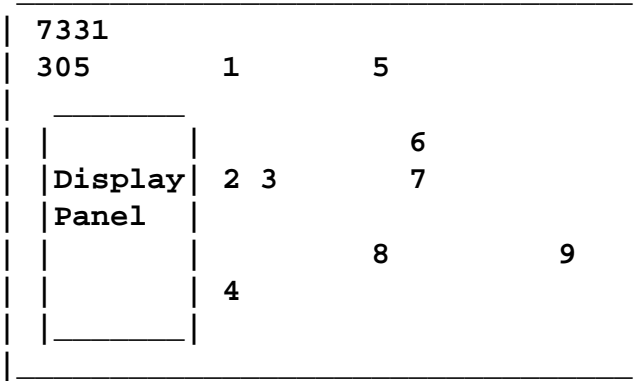
Firmware and installation instruction can be downloaded from :

<http://www.rs6000.ibm.com/support/micro/download.html> Minimum system firmware

7043-140 TIG97038

240 DOR97038

7025-F40 TR97038



Tape Drive 20GB.....	59H2842
Power Supply.....	86G9274
Fan.....	86G9326
Picker Asm.....	59H3409
Op panel Asm.....	87G1531
Data Cartridge 20GB 170m Qty 1	59H2678
 Test - 22m.....	 59H2677
8mm AME Cleaning Cartridge....	35L1409
(See RETAIN H17505 - Don't use 59H2898)	

View of the op Panel behind the door.

- | | |
|-----------|---------------------------------|
| 1) Cancel | 5) Power Switch |
| 2) Up | 6) Power On Indicator |
| 3) Down | 7) Door Lock Indicator |
| 4) Select | 8) Door Unlock 9) Key Lock |

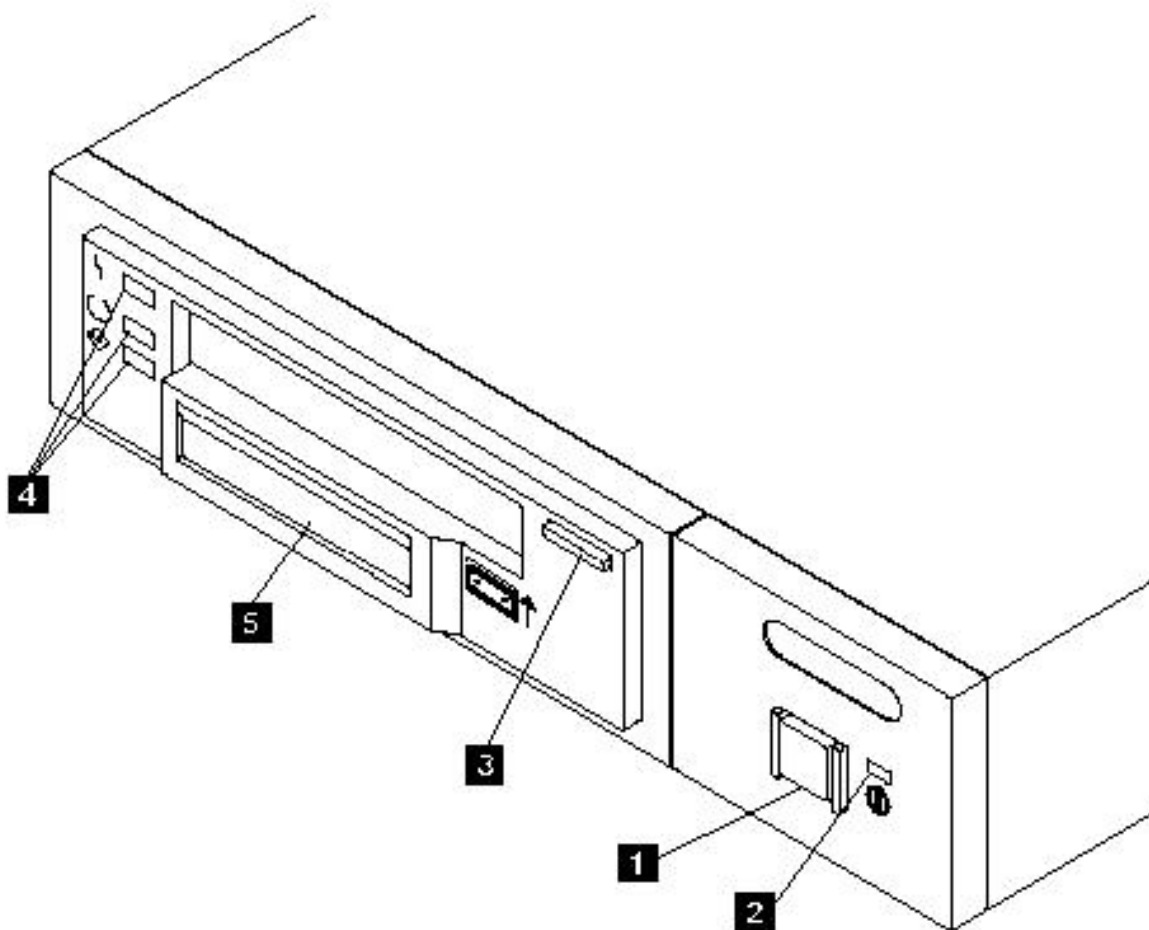
Cables, terminator and interposer needed to attach 7331-305 to a 4-6 card

	FC	MES FC	Terminator	Interposer	Length	P/N
Cables	9130	2844	included	not required	1.5m	52G4337
	9132	2846	need #9166	need #9171	2.5m	52G4233
					0.6m	52G4291
	9172	2893	need #9166	need #9171	4.5m	88G5749
	9172	2894	need #9166	need #9171	14.0m	67G1263
Terminator	9166	2890				61G8324
Interposer	9171	2892				50G0460

Updated: April 2003 by Bruno Croft

60/150GB 8mm Tape Drive - Mammoth 2

External Version 7208-345 60/150GB
Internal Version #6134
FFC 542



- 1 Power Switch
- 2 Power On Light
- 3 Unload Button
- 4 Status Light
- 5 Liquid Cristal Display

Tape Drive
 19P0708 LVD
 External and Internal versions.

Power Supply
 19P2064

Cooling Fan
 42F7300

Data Cartridge

225m 09L5322

150m 09L5323

75m 35L1044

Test Cartridge 59H2677

Cleaning Cartridge 35L1409

Cables:

Device-to-device 0.5m 19P0051

VHDCI/HD68 2.5m 19P0279

VHDCI/HD68 4.5m 19P0050

VHDCI/HD68 10m 19P0048

Terminator 35L0145

Created Sep 2002 by BJ Croft

Updated: Sep 2003 BJ Croft

7334-410 60GB External 8mm Tape Library FFC 542



Tape Drive		19P0207
Power Supply		19P1126
Cooling Fan		19P0617
Fixed Cartridge Magazine		19P0606
Removable cartridge magazine		19P0198

Data Cartridge	225m 60GB	9L5322
	150m 40GB	09L5323
	75m 20GB	35L1044
Test Cartridge AME	22m	59H2677
Cleaning Cartridge		35L1409

Cables:

Device-to-device	0.5m	19P0051
VHDCI/HD68	2.5m	19P0279
VHDCI/HD68	4.5m	19P0050
VHDCI/HD68	10m	19P0048
Terminator LVD		35L0145

Documentation Links:

[Nos cousins français!](#)

Operator's Guide

Service Guide

Created May 2003 by BJ Croft

7205-440 40GB External DLT Tape Drive DLT8000 LVD SCSI Device

- [7205-440 IBM Home Page](#)
- [Download/Verify Microcode](#)
- [Setup and Operator Guide](#)

FRU	Part name	P/N	
19P2042	DLT Tape Drive	19P2026	Black
19P2888	Addr Switch Asm		
59H2690	SCSI Internal Cable		
19P2064	Power Supply		
19P2027	7205-440 Logo		
19P2043	Cover Top Asm		
19P2044	Bezel		
59H3512	Fan		
59H3513	Fan Guard		
09L5316	Leader block replacement kit		
59H3040	DLT Data Cartridge	DLT Tape IV	
59H3092	Cleaning Cartridge		
59H3039	DLT Test Cartridge		
19P0279	1 System-to-device	SCSI bus cable, 2.5 meter	VHDCI-HD68
19P0050	1 System-to-device	SCSI bus cable, 4.5 meter	VHDCI-HD68
19P0048	1 System-to-device	SCSI bus cable, 10 meter	VHDCI-HD68
19P0051	1 Device-to-device	SCSI bus cable, 0.5 meter	HD68-HD68
19P0873	1 Device-to-device	SCSI bus cable, 0.7 meter	HD68-HD68
35L1307	1 Device-to-device	SCSI bus cable, 2.5 meter	HD68-HD68
19P0052	1 Device-to-device	SCSI bus cable, 5 meter	HD68-HD68
19P0053	1 Device-to-device	SCSI bus cable, 10 meter	HD68-HD68
35L0145	Terminator	SCSI LVD	

Created Oct 2002 by Bruno Croft Last updated Jan 2004 BJ Croft

7205-311 35GB External Digital Linear Tape Differential SCSI Device

Supported by:

- o AIX 4.1.5 or later with APAR IX64843
- o AIX 4.2.0 or later with APAR IX64876

- [Sales Manual Doc](#)

- [CDN ann letter](#)

Note: Can be attached to any of the following RS/6000 adapters:

- o #2420 4-2 SCSI-2 Differential High-Performance External I/O Controller
- o #2413 4-6 SCSI-2 Differential Fast/Wide Adapter/A Select
- o #2416 4-6 SCSI-2 Differential Fast/Wide Adapter/A
- o #2412 4-C Enhanced SCSI-2 Differential Fast/Wide Adapter/A
- o #6207 4-L PCI Differential Ultra SCSI Adapter
- o #2409 4-B PCI SCSI-2 Differential Fast/Wide Adapter
- o #6209 4-B PCI SCSI-2 Fast/Wide Differential Adapter

PARTS	P/N
	Tape Drive..... 59H3121
| IBM 7205-311 _____ |	Leader kit..... 09L5316 See H167864
| _ | ##### ||	Power Supply..... 87G4750
| _ | ##### ||	Fan 59H3512
| |=| | | _o_o_____ ||	Data Tape DLTtapeIV. 59H3040
| _____ | _____ |	Test Tape Cartridge. 59H3039
	SCSI Adr switch..... 59H4071
	SCSI Internal Cable. 74G8270
	Logo IBM..... 59H3523
	Cleaning Tape Cartridges: 59H3092

CABLING

FC P/N

1.5 m SCSI Cable and Terminator 9130/2844 52G4337 Cable +
(2412 4-C Enh F/W & 2416 4-6 F/W) 61G8324 Terminator

**0.6 m SCSI Cable Device-to-Device 9131/2845 52G4291
16-bit F/W**

**2.5 m SCSI Cable and Terminator 9143/2867 52G4233
(6207, 6209, 2409) 61G8324 Terminator**

**1.0 m SCSI F/W Cable and Terminator 9152/2876 06H6036
(6207, 6209, 2409) 61G8324 Terminator**

**1.0 m SCSI F/N Cable and Terminator 9159/2883 59H2891
(2420) 61G8324 Terminator**

Default blocksize 1024 See Note 1

Default Density #1 27 (70GB)

Default Density #2 26 (40GB)

Note 1: I suggest you change the default blocksize from 1024 to 32768 or 51200 if you are using the 'backup' AIX command. Otherwise, backing up with 1024 can be extremely slow

AIX Command Supported	Default Block Size	RECOMMENDATION
backup	32768 or 51200	Will use either 32768 or 51200 depending on if 'backup' is by name (-i) or not. No user change is required
tar	10240	There is an error in the manual that states a 512KB block size. The user needs to set the Blocking Parameter to -N64
mksysb	See backup	mksysb uses the backup command. No user change is required.
dd	n/a	The user needs to set the Blocking Parameter to bs=32K
cpio	n/a	The user needs to set the Blocking Parameters to -C64

Updated June 01 2001 by BJ Croft

7337-360 40GB External Digital Linear Tape

DLT Library SCSI Device

**DLTtapeIV Data Cartridge 59H3040 DLT Cleaning Cartridge
59H3092**

Created Sep 2002 by Bruno Croft

7337-30X 35GB External Digital Linear Tape

Differential SCSI Device

7337-305 model Desk-Top DLT7000
7337-306 model Rack DLT7000

VPD may differ depending if this is a Quantum drive or the IBM version.

Atape.driver 4.1.0.0
devices.scsi.tape.rte 4.3.2.0
devices.scsi.tape.diag 4.3.2.1
devices.scsi.tape.rspc 4.3.0.0

If attaching this product to an RS/6000, it can be attached to any of the following RS/6000 adapters:

- o #2420 4-2 SCSI-2 Differential High-Performance External I/O Controller
- o #2416 4-6 SCSI-2 Differential Fast/Wide Adapter/A
- o #2412 4-C Enhanced SCSI-2 Differential Fast/Wide Adapter/A
- o #6207 4-L PCI Differential Ultra SCSI Adapter
- o #2409 4-B PCI SCSI-2 Differential Fast/Wide Adapter
- o #6209 4-B PCI SCSI-2 Fast/Wide Differential Adapter

PARTS	P/N
Tape Drive.....	59H3570 ucode:1B41
Power Supply.....	59H3560
Library control card Dif.	59H3582
Term Differential.....	61G8324
Bar code reader.....	59H4415
Cleaning cartridge.....	59H3092

Default blocksize 1024 **See Note 1**
Default Density #1 27 (70GB)
Default Density #2 26 (40GB)

Note 1: I suggest you change the default blocksize from 1024 to 32768 or 51200 if you are using the 'backup' AIX command. Otherwise, backing up with 1024 can be extremely slow

First, ensure chdev -l rmtx -a block_size=0

AIX Command	Default write size	RECOMMENDATIOIN
backup by name (mksysb)	-b 512 (512*512=262144)	Will use either 32768 or 51200 depending on if 'backup' is by name (-i) or not. No user change is required
backup by inode	-b 256	-i flag
tar	-N512 (512*512=262144)	There is an error in the manual that states a 512KB block size. The user needs to set the Blocking Parameter to -N512
mksysb	See backup by name	mksysb uses the backup command. No user change is required.
dd	n/a	The user needs to set the Blocking Parameter to bs=32K
cpio	-C 512 (512*512=262144)	

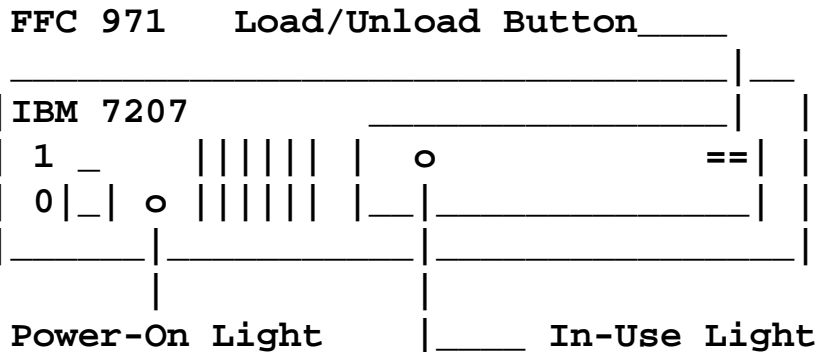
Updated Feb 04 2002 by Bruno Croft

IBM 1/2-Inch 9-Track Tape Drive 9348-001

1/2-inch	|	Tape/media kit (include)	|	21F3108
9-track	|	-Cleaning kit	|	0352465
tape drive	|	-Crank	|	6200972
	|	-CE tape assembly	|	6201953

IBM 150MB Internal 1/4-Inch Tape Drive

(External 7207-001)



YELLOW Normal Operation
 RED Problem in the Drive
 OFF Waiting or Stand-By

Tape Drive..... 16G8423, 00G2636, 31F4081
 Power Supply 7207-001. 00G2960
 Fan..... 42F7300
 Cleaning Solution..... 13F5647
 Cleaning kit..... 21F8570
 Data tape (qty5)..... 21F8588
 Test tape..... 92X7510

CLEANING: Every 20 HOURS of tape movement.
 After 2 HOURS for new cartridge.

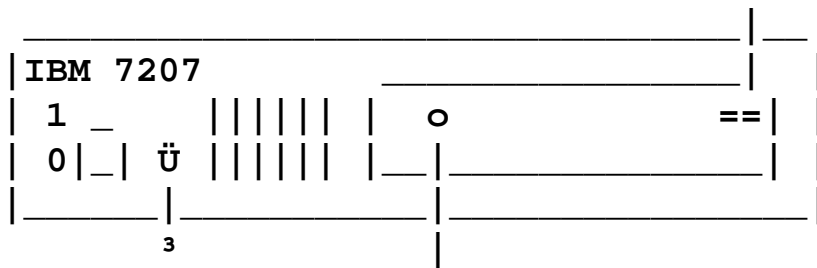
Format Compatibility		
QIC-24	Read Only	
QIC-120	Read Write	
QIC-150	Read Write	
QIC-525	No	No
QIC-1000	No	No

IBM 525MB Internal 1/4-Inch Tape Drive

External 7207-011

(Require AIX 3.2.1)

FFC 991 Load/Unload Button-----+



Power-On Light +----- In-Use Light
 YELLOW Normal Operation
 RED Problem in the Drive
 OFF Waiting or Stand-By

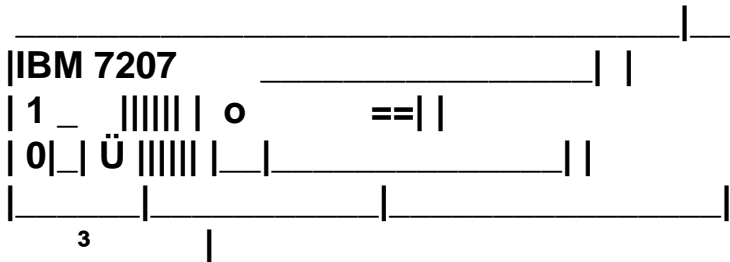
- Tape Drive..... 46G2700, 55F9184
- Power Supply 7207.. 00G2960
- Fan..... 42F7300
- Cleaning Solution.. 13F5647
- Cleaning kit..... 21F8570
- Data tape (qty5)... 21F8587
- Test tape..... 21F8586

CLEANING: Every 8 HOURS of tape movement.
 After 2 HOURS for new cartridge.

Format Compatibility		
QIC-24	Read	Only
QIC-120	Read	Write
QIC-150	Read	Write
QIC-525	Read	Write
QIC-1000	No	No

IBM 1.2GB Internal 1/4-Inch Tape Drive External 7207-012

FFC 995 Load/Unload Button _____



Power-On Light +---- In-Use Light
 YELLOW Normal Operation
 RED Problem in the Drive
 OFF Waiting or Stand-By

CLEANING: Every 8 HOURS in QIC-1000
 Every 12 HOURS in QIC-120/150/525
 After 2 HOURS for new cartridge.

Tape Drive..... 21H5155 <-- 8191184 <--- 46G2698 <--- 55F9353
 Power Supply 7207-012. 46G3934
 Fan..... 55F9421
 Cleaning Solution..... 13F5647
 Cleaning kit..... 21F8570
 Data tape (qty5)..... 21F8732
 Test tape..... 21F8734

Format Compatibility
QIC-24 Read Only
QIC-120 Read Write
QIC-150 Read Write
QIC-525 Read Write
QIC-1000 Read Write

This tape drive model uses microcode that can be get at this [site](#)

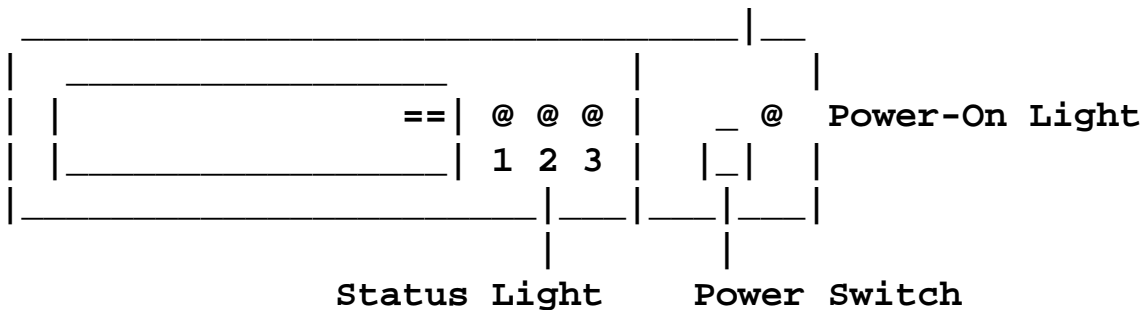
Last Update: May 28 2002 by Bruno Croft

IBM 13GB Internal 1/4-Inch Tape Drive

External 7207-315

(Require AIX 4.1.5 or 4.2)

FFC 757 Load/Unload Button_____



1	2	3	
Ready	Activity	Fault	

On On On Power-On Self Test (POST) occurring

YELLOW Normal Operation
 RED Problem in the Drive
 OFF Waiting or Stand-By

Tape Drive..... 87G4858
 Power Supply 7207-315. 87G1642
 Pushbutton..... 74G8497
 Fan..... 42F7300
 Cleaning Solution..... ???????
 Cleaning cartridge.... 46G2674
 Data tape..... 16G8574 366 meters (1200 feet)
 Test tape..... 87G1626 1.68GB 47 meters

Format Compatibility	
QIC-24	Read Only
QIC-120	Read Write

QIC-150	Read	Write
QIC-525	Read	Write
QIC-1000	Read	Write
QIC-2000	Read	Write
QIC-5010	Read	Write



Tape Drives

- [3490e](#)
- [3494](#)
- [3570](#)
- [3590](#)

Updated Oct 31 2001 by Bruno Croft

Tape Media for Canadian customers:

1-800-361-7378	Axidata (MCSI Media Services)	All Canada
1-800-668-7590	Daisy Tek	
1-888-617-6888		Mainly East Coast
604-244-7891 x1027	Azerty	West
1-800-361-5964		Québec

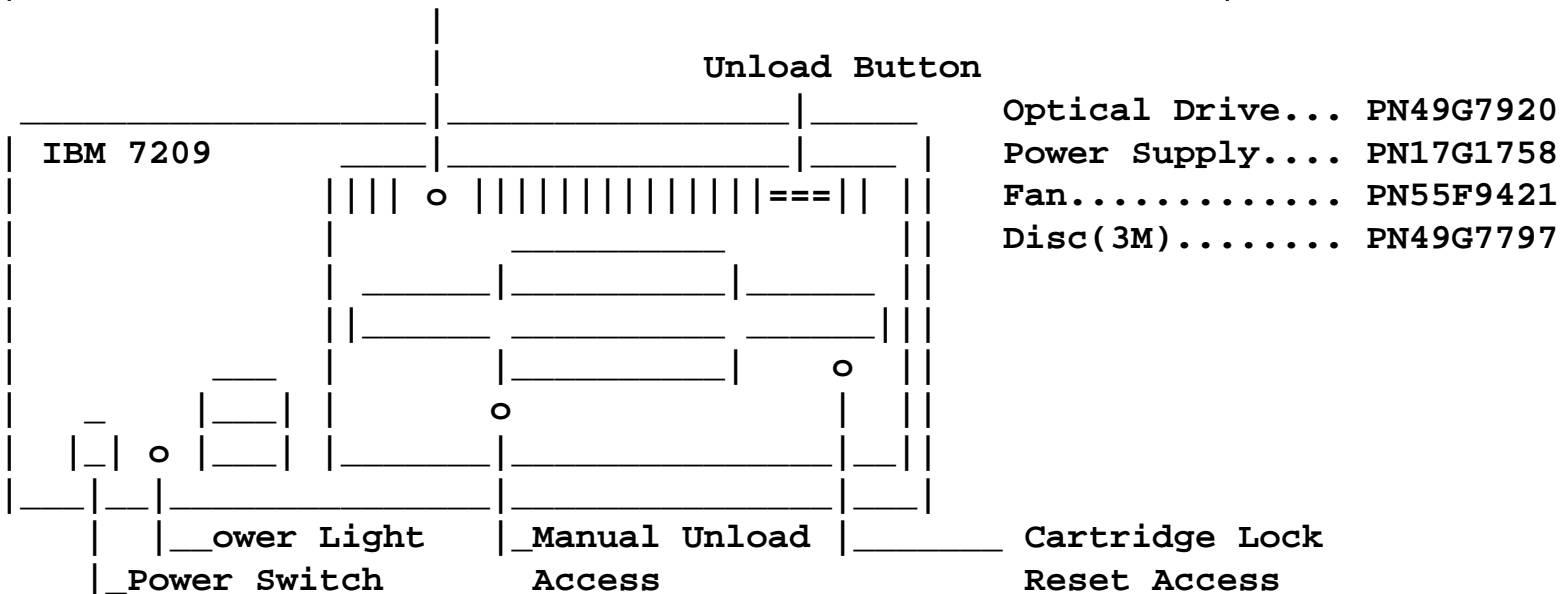
Or try 1-800-IBM-MEDIA to know more..

Updated: Oct 2002 by Bruno Croft

IBM Optical Disk Drive 7209-001

Status Light

Off.....	No SCSI is processing, drive ready
On.....	Drive in process, SCSI command
Random Blinking...	Media read, writing
Up to 9 Blinks....	Internal fault



Optical Drive 7209-003..... 50G0212

IBM Optical Disk Drive 7209-002

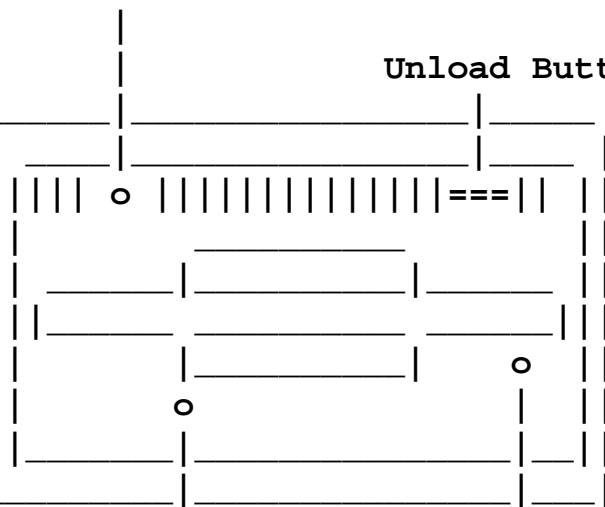
Status Light

Off.....	No SCSI is processing, drive ready
On.....	Drive in process, SCSI command
Random Blinking...	Media read, writing
Up to 9 Blinks....	Internal fault

Unload Button

IBM 7209

Optical Drive... 61G9240
 Power Supply.... 46G3934
 Fan..... 55F9421



Power Light Manual Unload Access Cartridge Lock Reset Access

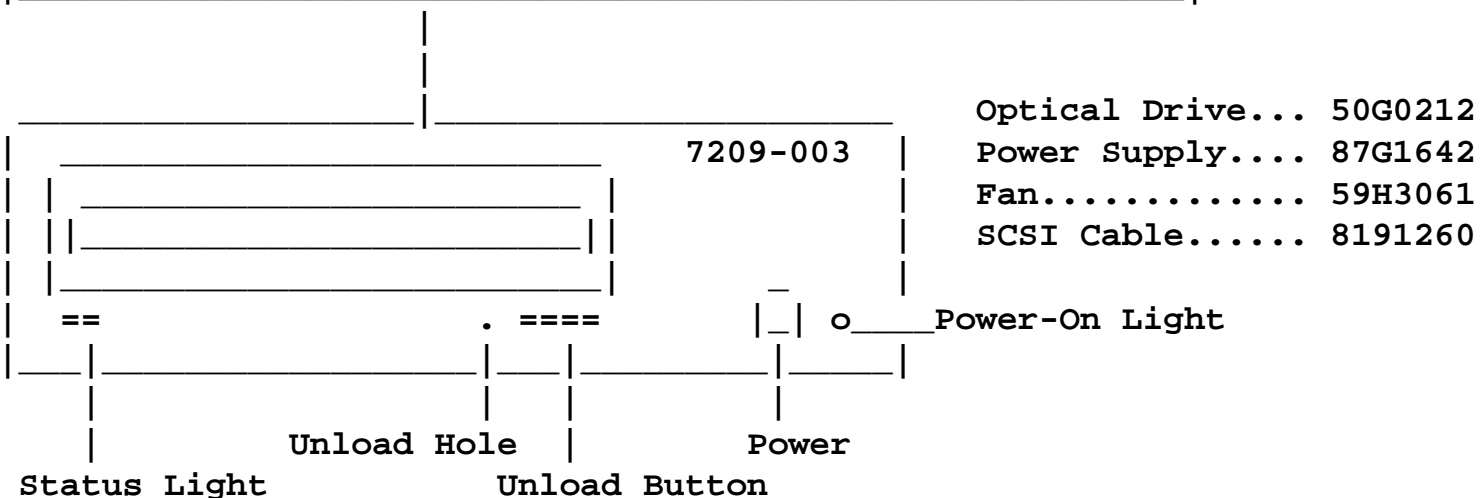
	Disk Capacity	P/N	Compatible Standard
Rewritable 2X	1.19GB	09G7339	ISO/IEC 13549
1X	595MB 3M	49G7797	ISO/IEC 10089: 1991 format A

Burst Data Rate 4MB/s
 595MB media transfer at 620KB/s
 1.19GB media transfer at 1424KB/s
 2 SCSI external connectors

IBM Optical Disk Drive 7209-003

Status Light

Off.....	Powered Off - Not Ready
Amber.....	POS / Reading
Green Solid.....	Ready / Not Processing
Green Blinking....	Internal fault



D I S K S

	Capacity	P/N	OD	RATE	ID	Compatible Standard
1	4X 2.6GB	99F8495	4		2	ISO/IEC DIS 14517
1	4X 2.3GB	99F8494	3.6		1.8	" " "
1	2X 1.3GB	09G7344	2.4		1.2	ISO/IEC 13549
1	2X 1.19GB	09G7339	2.2		1.1	" "
1	1X 652MB	94F9479		1		ISO/IEC 10089: 1991 format A
1	1X 595MB 3M	49G7797		1		" "
2	4X 2.6GB	99F8497	4		2	ISO/IEC DIS 14517
2	4X 2.3GB	99F8496	3.6		1.8	" "
3	4X 2.6GB	99F8517	4		2	ECMA 238
3	2X 1.3GB	09G7343	2.4		1.2	IBM Industry Standard
3	1X 652MB	65F6951		1		ISO/IEC 9171-1,2: 1990 format A

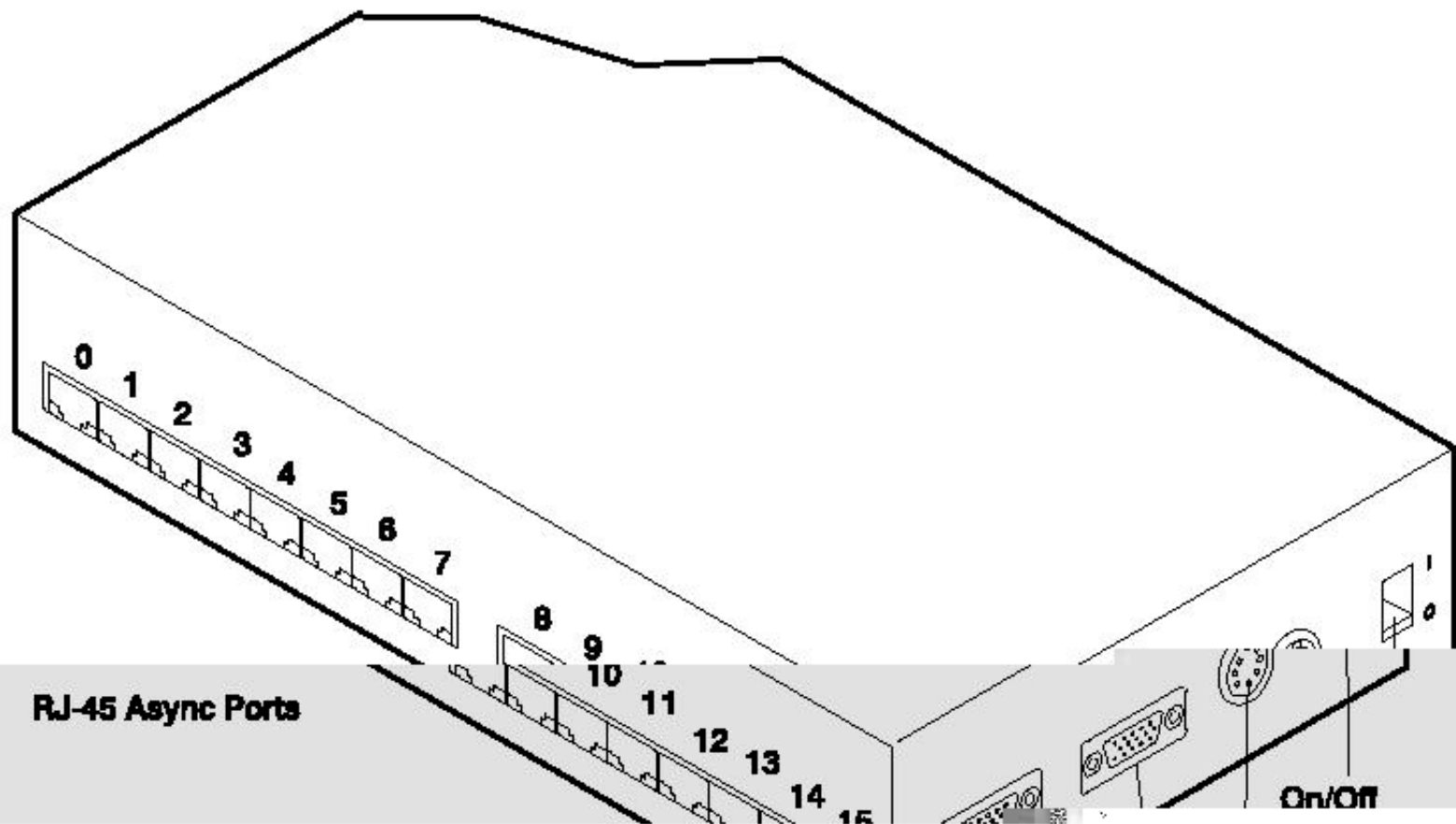
1) Rewritable 2) CCW WORM 3) Permanent WORM OD Outer ID Inner

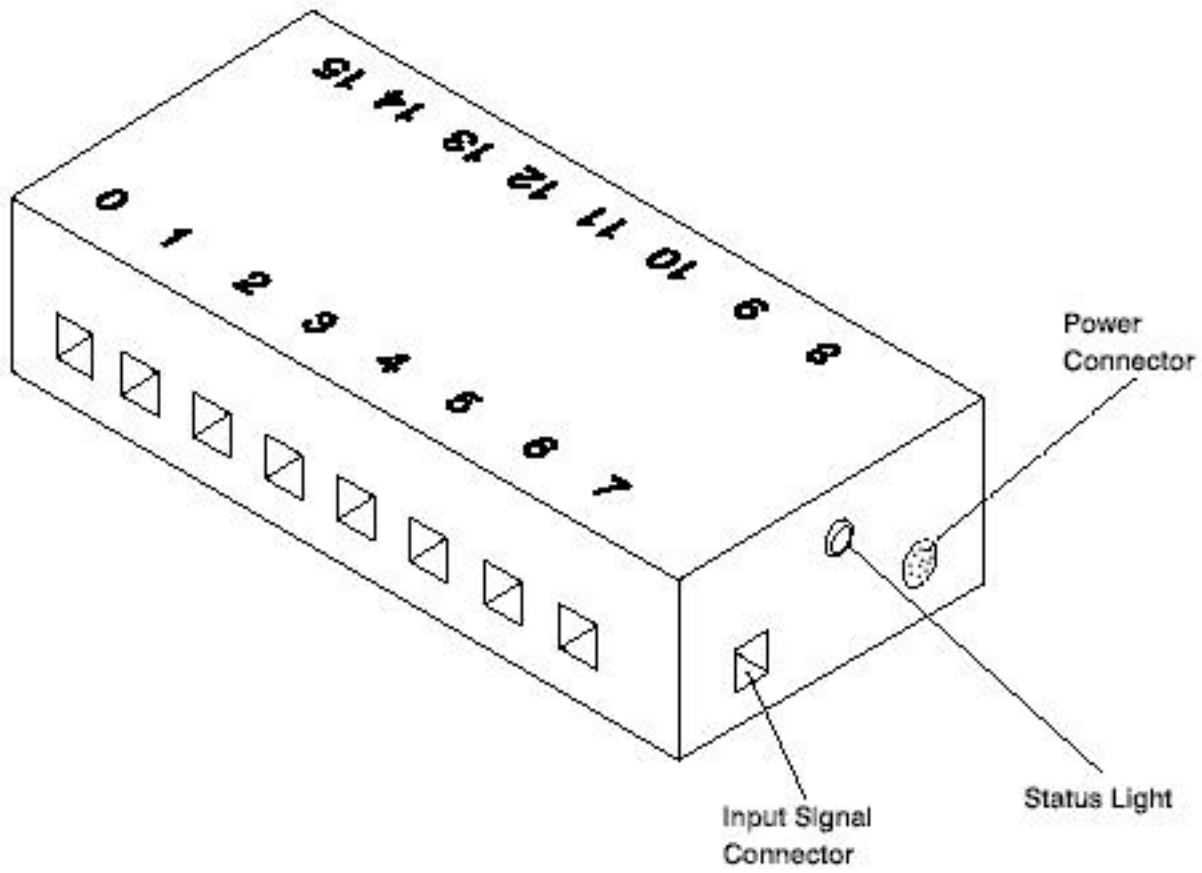
06/26/98



3995 Optical Library

F/C	P/N	Description
#7200	34H9234	Single-Ended SCSI (redrive card)
#7201	34H9233	Differential SCSI
#7210	62G3061	3995:2.38m 50pin Single-Ended cable for cards #2410 & #2831
#7211	34H5889	3995: 3m 68pin Single-Ended SCSI Cable for cards #2415
#7212	34H9120	3995: 3m 68pin Singled-Ended SCSI Cable 68to50pin for #2414
#7215	34H9120	3995: 8m 50pin Differential SCSI Cable for card #2420.
#7216	95X2492	3995: 2m 68pin Differential SCSI daisy chain cable
#7217	88G5757	3995: 8m 68pin Differential SCSI Cable 68to50pin for card #2416
#7218	34H9126	3995: 8m 68pin Differential SCSI Cable 68to50pin for card #2413
#7219	34H9240	3995: 3m 50to50pin Single-Ended SCSI cable for Adaptec card
#7220	59H4768	3995: 8m 50to50pin Differential SCSI cable for Adaptec card



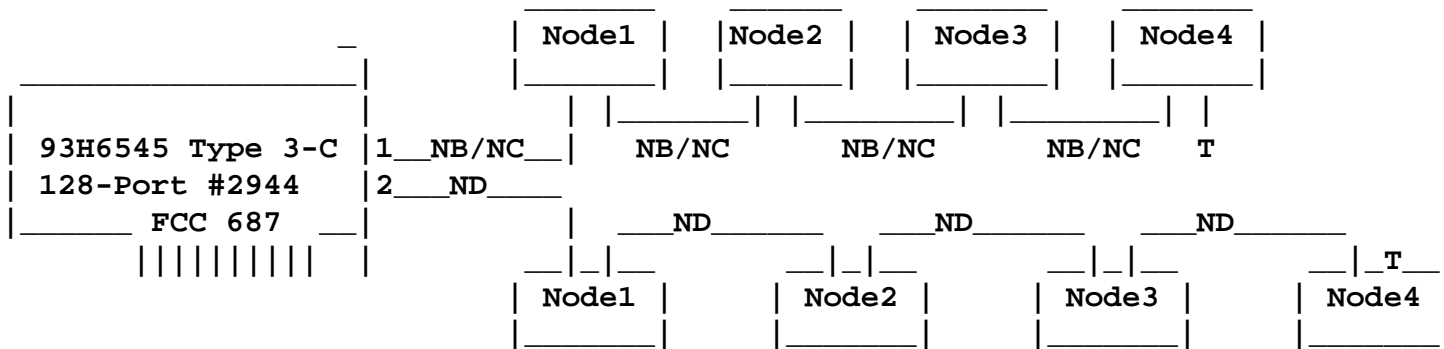


128-Port Async Controller PCI Type 3-C #2944

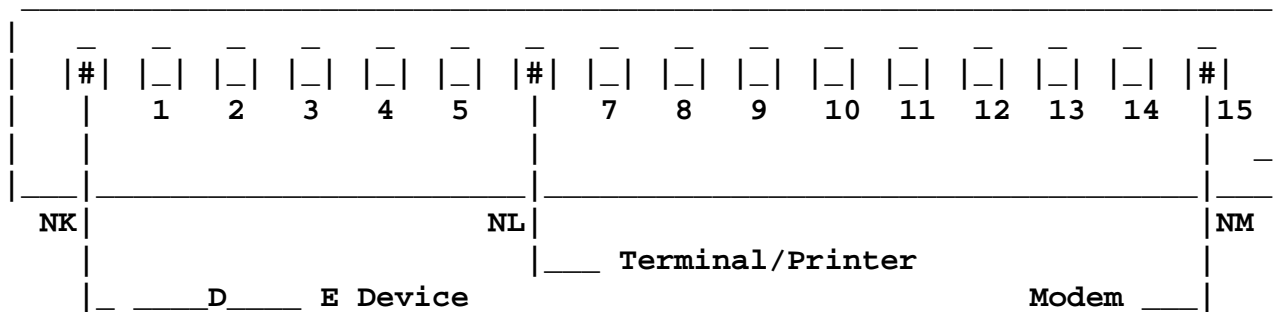
Fileset: devices.pci.4f111b00

Resource name: cxpa0

This version of the 128port doesn't have dip switches.



Cables	P/N	Length	Terminator HD-15 (Wrap plug)
NC 8-wire	43G0936	0.75ft	
NB 8-wire	43G0937	15 ft	43G0938 (pair)
ND 4-wire	No IBM PN	See Cable	43G0928 (one)



RANs:

	RAN 16-Port EIA-232	FFC837	P/N 88G3842	#8130	1.2 Mbps
(Rack Mount)	RAN 16-Port EIA-232	FFC837	P/N 09P4096,40H2589	#8136	1.2 Mbps
	Enhanced RAN 16-Port EIA-232	FFC837	P/N 93H6549	#8137	2.4 Mbps
		EIA-422	93H6563	#8138	2.4 Mbps

TRANSFORMERS:

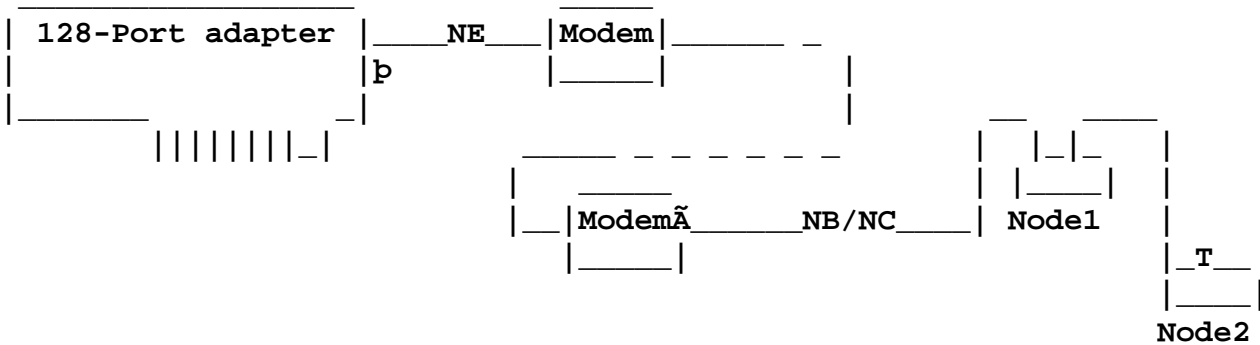
NOTE: All former non-removable FRU now sub to the removable 93H7091. If you replace a non-removable with a removable, also order

power cord 6952300 Current 93H7091, 88G2749--+-51G8528, 51G8527, 43G0934.
110-250V (Power cord removable)

+51G8526, 43G0933. 115-127V (Power cord non-removable)

- MCA adapter does NOT support enhanced ran.
- Enhanced RAN required AIX 4.2.1 or 4.3.
- Enhanced Ran and non-enhanced RAN can be mixed but they will run at the slower speed (1.2Mbps not 2.4Mbps)..

Cables	P/N	Length	
NK	51G8610 (qty 4) (43G0935)	9 Inches	Converter RJ45-DB25
NL	Customer Supplied		Terminal/Printer
NM	Customer Supplied		Modem



4-Wire cabling cannot be used with synchronous modems or 8-Wire on same controller line.

Programming the RAN

TD	RD	RTS	CTS	DSR	CD	DTR	RI	OFS	IFC																												
0	0	0	0	0	0	0	0	0	0																												
										<table border="1"> <tbody> <tr> <td>-</td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>//</td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>\</td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	-									//									\								
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- Power-on the RAN. P0 is display during POST
- When the POST is complete, P1 appears and the RAN is ready for the

following programming steps.

- Press the LEFT ARROW to enter programming mode. The current NODE NUMBER (1n, 2n,3n or 4n) is displayed
- Press the RIGHT ARROW repeatedly until the desired NODE NUMBER is displayed.
- Press the left arrow to select the node number entered in the previous step. Pn will appear momentarily, meaning that the node has been successfully programmed. The display then return to P1 and awaits microcode download from the controller.
- AC indicate that IPL is complete and RAN is ready.

En error in RAN

If En appears, the RAN has been improperly programmed in one of the following way.

- The RANs have not been programmed in ascending order. That is, the RAN displaying the En has been programmed to a lower number than the preceding RAN.
- Two or more RAN have been programmed assigned the same number. The RAN displaying the En has been programmed to the same number as another node on the same controller line.

NOTE: Node number should be assigned in ascending order on each controller line. The RAN closest to the controller being 1n, the second RAN 2n and so on. Numbers greater than 4 will not configured.

RAN IN and OUT connectors

IN Connector		Pin Number		Signal Name	
1	5	IN	OUT		
6	10	1	6	TD-	Transmit Data -
		2	7	TD+	Transmit Data +
		3	15	RTS+	Request to Send +
		4	9	TC-	Transmit Clock -
		5	10	TC+	Transmit Clock +
11	15	6	1	RD-	Receive Data -
		7	2	RD+	Receive Data +
		8	14	RTS-	Request To Send -
		9	4	RC-	Receive Clock -
		10	5	RC+	Receive Clock +
		11	11		Not used
10	6	12	12	S GND	Signal Ground
		13	13	+5	+5 Volts
		14	8	CTS-	Clear To Send -
OUT/T Connector					
5	1				

15

11

15	3	CTS+	Clear To Send +
----	---	------	-----------------

Baud Rate VS Length

Controller Line Baud Rate	Total Controller Cable Length		The controller line length is the actual cable length from the controller to the last REMote Async Node in the controler line.
Bps	meters	feet	
2400	1200	3930	
4800	1200	3930	
9600	1200	3930	
19200	1200	3930	
38400	1200	3930	
57600	1200	3930	
76800	1200	3930	
115000	900	2950	
230000	400	1350	
460000	300	1000	
920000	300	1000	
1200000	300	1000	

Location Code Format for 128-Port Async Subsystem

AB-CD-EF-GH

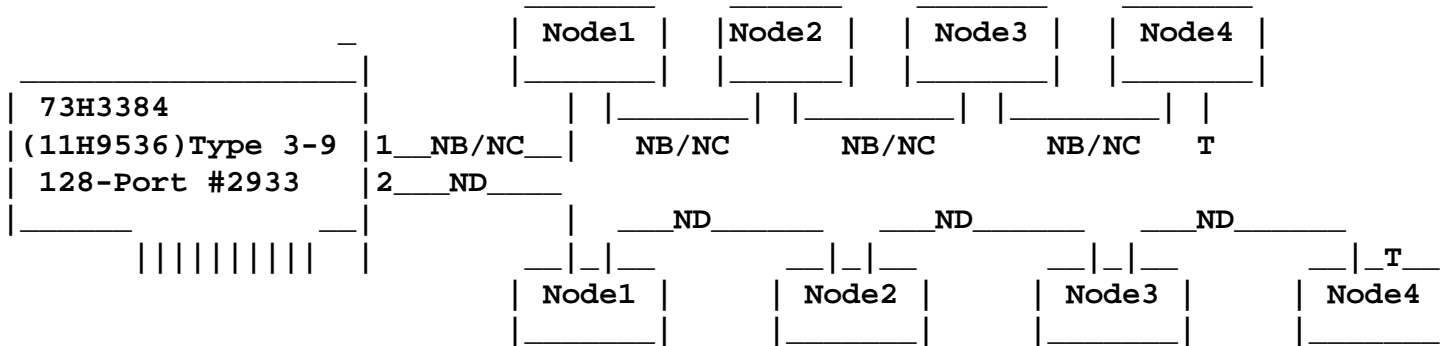
||	||	||	||	_____	Async port number
||	||	||	||	_____	Remote async node 1 through 4
||	||	||	||	_____	Adapter connector 1 or 2
||	||	||	||	_____	Adapter slot number
||	||	||	||	_____	I/O bus number
||	||	||	||	_____	Always 00

Updated: April 2004 Jef Goupil

128-Port Asynchronous Controller ISA Type 3-9 #2933

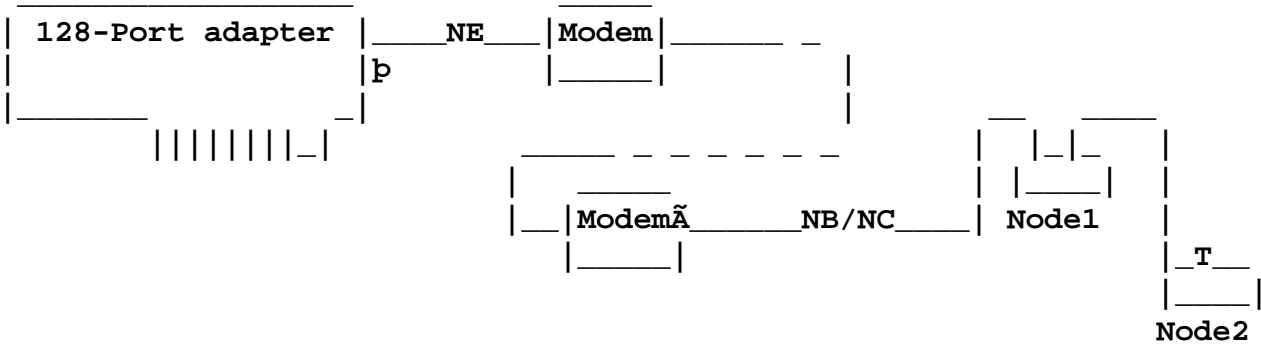
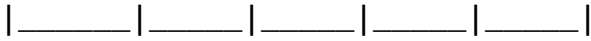
Fileset: devices.isa.cxia128.*

1. install devices.isa.cxia128
2. if smit fails to configure the adapter, apply IX55876 or try:
 mkdev -tcxia -cadapter -sisa -pbus1 -a bus_io_addr=0x328
 make sure the addr switch matches the given addr



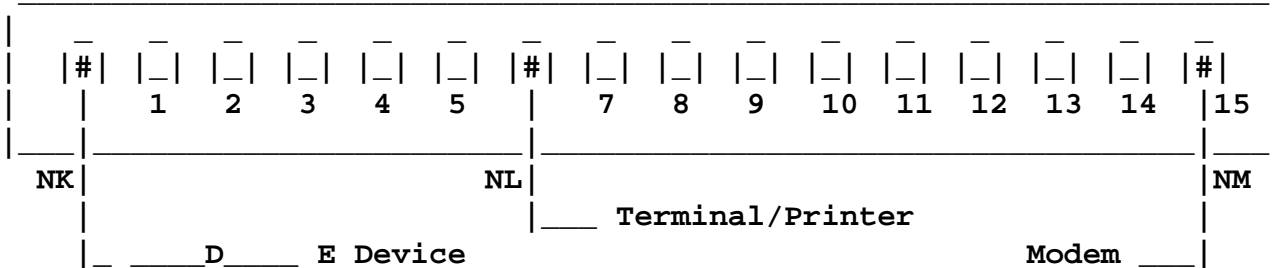
Cables	P/N	Length	Terminator HD-15 (Wrap plug)
NC 8-wire	43G0936	0.75ft	
NB 8-wire	43G0937	15 ft	43G0938 (pair)
ND 4-wire	No IBM PN	See Cable	43G0928 (one)

Address Switches				
Hex Addr	1	2	3	4
108	Off	Off	On	On
118	Off	On	Off	On
128	Off	On	On	On
208	On	Off	Off	On
228	On	Off	On	On
308	On	On	Off	On
328	On	On	On	On



4-Wire cabling cannot be used with synchronous modems or 8-Wire on same controller line.

Remote Async Node 16-Port EIA-232 FFC837 PN51G8139 #8130 FFC837



- RANS:**
- | | | | |
|-----------------------------------|---------------------|-------|----------|
| RAN 16-Port EIA-232 | FFC 837 P/N 88G3842 | #8130 | 1.2 Mbps |
| (Rack Mount) RAN 16-Port EIA-232 | FFC 837 P/N 40H2589 | #8136 | 1.2 Mbps |
| Enhanced RAN 16-Port EIA-232 | FFC 837 P/N 93H6549 | #8137 | 2.4 Mbps |
| EIA-422 | 93H6563 | #8138 | 2.4 Mbps |

TRANSFORMERS:

NOTE: All former non-removable FRU now sub to the removable 93H7091. If you replace a non-removable with a removable, also order

power cord 6952300 Current 93H7091, 88G2749---+-51G8528, 51G8527, 43G0934.
110-250V (Power cord removable)

+51G8526, 43G0933. 115-127V (Power cord non-removable)

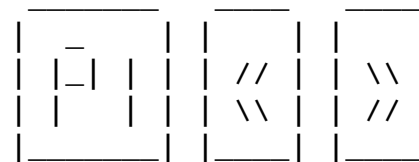
- MCA adapter does NOT support enhanced ran.
- Enhanced RAN required AIX 4.2.1 or 4.3.

- Enhanced RAN and non-enhanced RAN can be mixed but they will run at the slower speed (1.2Mbps not 2.4Mbps)..

Cables	P/N	Length	
NK	51G8610 (qty 4) (43G0935)	9 Inches	Converter RJ45-DB25
NL	Customer Supplied		Terminal/Printer
NM	Customer Supplied		Modem

Programming the RAN

TD	RD	RTS	CTS	DSR	CD	DTR	RI	OFS	IFC
0	0	0	0	0	0	0	0	0	0



- Power-on the RAN. P0 is display during POST
- When the POST is complete, P1 appears and the RAN is ready for the following programming steps.
- Press the LEFT ARROW to enter programming mode. The current NODE NUMBER (1n, 2n,3n or 4n) is displayed
- Press the RIGHT ARROW repeatedly until the desired NODE NUMBER is displayed.
- Press the left arrow to select the node number entered in the previous step. Pn will appear momentarily, meaning that the node has been successfully programmed. The display then return to P1 and awaits microcode download from the controller.
- AC indicate that IPL is complete and RAN is ready.

En error in RAN

If En appears, the RAN has been improperly programmed in one of the following way.

- The RANs have not been programmed in ascending order. That is, the RAN displaying the En has been programmed to a lower number than the preceeding RAN.
- Two or more RAN have been programmed assigned the same number. The RAN displaying the En has been programmed to the same number as another node on the same controller line.

NOTE: Node number should be assigned in ascending order on each controller line. The RAN closest to the controller being 1n, the second RAN 2n and so on. Numbers greater than 4 will not be configured.

RAN IN and OUT connectors

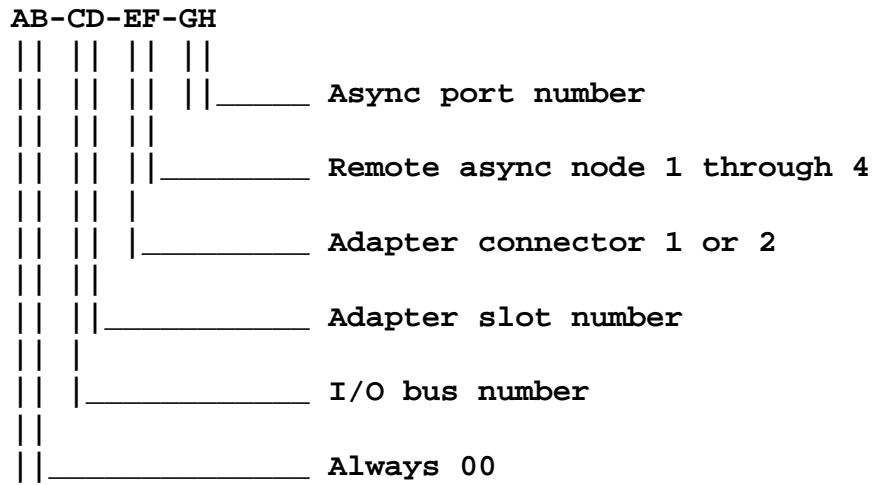
IN Connector		Pin Number		Signal Name	
1	5	IN	OUT		
6	10	1	6	TD-	Transmit Data -
		2	7	TD+	Transmit Data +
		3	15	RTS+	Request to Send +
		4	9	TC-	Transmit Clock -
		5	10	TC+	Transmit Clock +
11	15	6	1	RD-	Receive Data -
		7	2	RD+	Receive Data +
		8	14	RTS-	Request To Send -
		9	4	RC-	Receive Clock -
		10	5	RC+	Receive Clock +
		11	11		Not used
		12	12	S GND	Signal Ground
		13	13	+5	+5 Volts
		14	8	CTS-	Clear To Send -
		15	3	CTS+	Clear To Send +

OUT/T Connector	
5	1
10	6
15	11

Baud Rate VS Length

Controller Line Baud Rate	Total Controller Cable Length		The controller line length is the actual cable length from the controller to the last REMote Async Node in the controller line.
Bps	meters	feet	
2400	1200	3930	
4800	1200	3930	
9600	1200	3930	
19200	1200	3930	
38400	1200	3930	
57600	1200	3930	
76800	1200	3930	
115000	900	2950	
230000	400	1350	
460000	300	1000	
920000	300	1000	
1200000	300	1000	

Location Code Format for 128-Port Async Subsystem

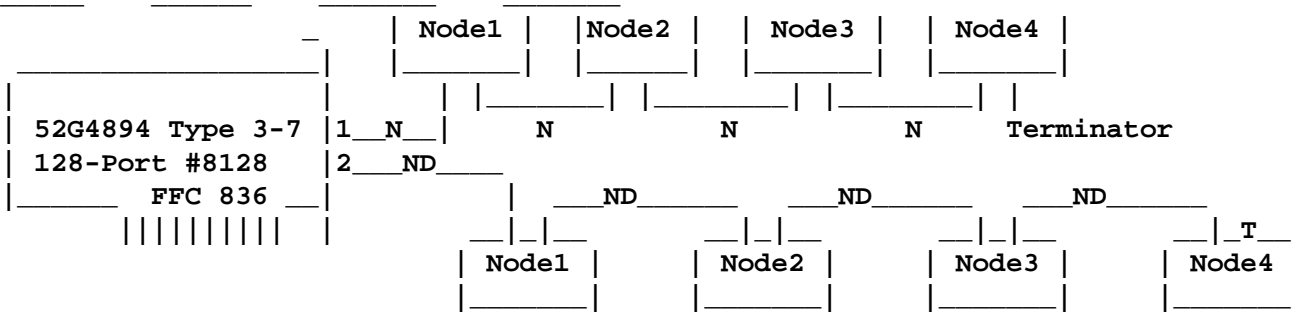


O u t s t a n d i n g i n t h e f i e l d !

Updated Jan 2003 Bruno Croft

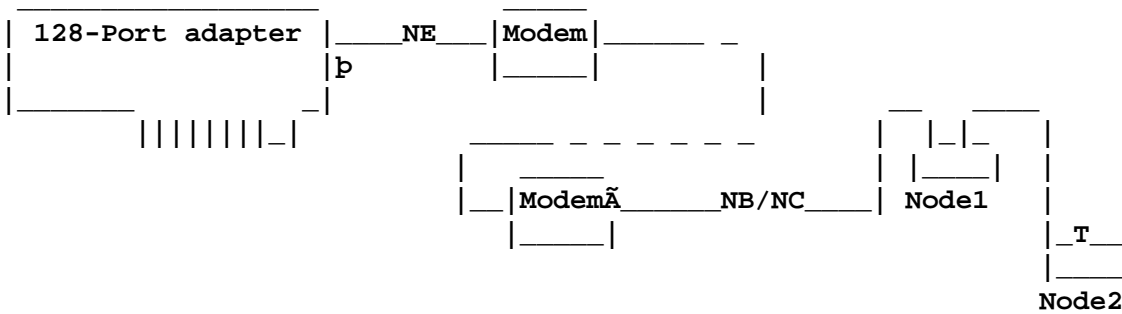
128-Port Asynchronous Controller MCA Type 3-7 #8128

Fileset: devices.mca.ffe1.xxxx
Resource name: cxma0



N = NB or NC depending of distance between RAN

	P/N	Desc
NC 8-wire	43G0936	0.75ft
NB 8-wire	43G0937	15 ft
ND 4-wire	No IBM PN	See Cable
Terminator (Wrap Plug)	43G0938 (43G0926)	LAST RAN OUT
	43G0928	RJ-45 Port



4-Wire cabling cannot be used with synchronous modems or 8-Wire on same controller line.

Remote Async Node 16-Port EIA-232 FFC837 PN88G3842 (51G8139) #8130
Box Style

#	1	2	3	4	5	#	7	8	9	10	11	12	13	14	#	15
NK					NL	Terminal/Printer								NM		
D E Device										Modem						

Remote Async Node 16-Port EIA-232 FFC837 PN40H2589 #8136
Rack Style

															#	##	/	\	
#	1	2	3	4	5	#	7	8	9	10	11	12	13	14	#	15	oooooooo	#_#	#
															#	##	##	\	/
NK					NL	Terminal/Printer								NM					
D E Device										Modem									

TRANSFORMERS:

NOTE: All former non-removable FRU now sub to the removable93H7091If you replace a non-removable with a removable, also order power cord 6952300 Current 93H7091, 40H3611, 88G2749---+51G8528, 51G8527, 43G0934. 110-250V (Power cord removable)

+51G8526, 43G0933. 115-127V (Power cord non-removable)

Surge supressor..... 8184208

Cables	P/N	Length	
NK	51G8610 (qty 4) (43G0935)	9 Inches	Converter RJ45-DB25
NL	Customer Supplied		Terminal/Printer
NM	Customer Supplied		Modem

Programming the RAN

TD	RD	RTS	CTS	DSR	CD	DTR	RI	OFS	IFC	|	|	|
0	0	0	0	0	0	0	0	0	0	|	//	\
											\	//

- Power-on the RAN. P0 is display during POST
- When the POST is complete, P1 appears and the RAN is ready for the

following programming steps.

- Press the LEFT ARROW to enter programming mode. The current NODE NUMBER (1n, 2n,3n or 4n) is displayed
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RAN IN and OUT connectors

IN Connector		Pin Number		Signal Name	
1	5	IN	OUT		
-----		1	6	TD-	Transmit Data -
| . . . . . |		2	7	TD+	Transmit Data +
6	10	3	15	RTS+	Request to Send +
\ /		4	9	TC-	Transmit Clock -
\ |-----| /		5	10	TC+	Transmit Clock +
11	15	6	1	RD-	Receive Data -
|-----|		7	2	RD+	Receive Data +
| o o o o o |		8	14	RTS-	Request To Send -
| o o o o o |		9	4	RC-	Receive Clock -
10	6	10	5	RC+	Receive Clock +
\ o o o o o /		11	11		Not used
\ |-----| /		12	12	S GND	Signal Ground
15	11	13	13	+5	+5 Volts
|-----|		14	8	CTS-	Clear To Send -
| o o o o o |		15	3	CTS+	Clear To Send +

Baud Rate VS Length

Controller Line Baud Rate	Total Controller Cable Length		The controller line length is the actual cable length from the controller to the last REmote Async Node in the controler line.
Bps	meters	feet	
2400	1200	3930	
4800	1200	3930	
9600	1200	3930	
19200	1200	3930	
38400	1200	3930	
57600	1200	3930	
76800	1200	3930	
115000	900	2950	
230000	400	1350	
460000	300	1000	
920000	300	1000	
1200000	300	1000	

Location Code Format for 128-Port Async Subsystem

```

AB-CD-EF-GH
||  ||  ||  ||
||  ||  ||  || _____ Async port number
||  ||  ||  ||
||  ||  ||  || _____ Remote async node 1 through 4
||  ||  ||  ||
||  ||  ||  || _____ Adapter connector 1 or 2
||  ||  ||  ||
||  ||  ||  || _____ Adapter slot number
||  ||  ||  ||
||  ||  ||  || _____ I/O bus number
||  ||  ||  ||
||  ||  ||  || _____ Always 00

```

MODEM INFO

General Overview of DSU/CSU (or modem connections):

Only synchronous communications are supported using an SDLC protocol. Neither the 128-port adapter or the RAN supply any handshake signals (CTS, RTS, DTR, DSR) to the DSU/CSU or modem. These cables may need to be customized based on the individual modems used.

Often the DSU/CSU or modem needs to have Forced RTS or Forced DTR set.

Digital Sync Modem (CSU/DSU)

It is a requirement that in Digital circuits that the TxC be derived from the Network. The speed of the line, the modems and the SMIT setting for the adapter line should all be set to the same value. If the line is a 56 KB

Both DSU/CSU (Local and Remote) need to be set to derive their clock signals from the line. This may require an EXTERNAL clock setting or a slave clock setting.

Analog Sync Modems

The first modem has the MASTER TxC CLOCK. This means that it is usually set to INTERNAL clocking. It is recommended that the HOST modem be the MASTER clock modem.

The second modem is the SLAVE to the Clocking. This means that it is usually set to EXTERNAL clocking and sometimes to SLAVE clocking as well. Some modems use the term TRIBUTARY clocking.

O u t s t a n d i n g i n t h e f i e l d !

Updated Feb 2003 Bruno Croft

PCI ADAPTERS

SCSI

Type	Name	FC	FFC	Codename
SCSI INFO				
Integrated				
4-A	SCSI2 SE FW	6208 2408	746 74A	Early Bloomer
4-B	SCSI2 DE FW	6209 2409	747	Night Bloomer
4-E	See 4-A			
4-F	See 4-B			
4-H	SCSI2 FW RAID	2493	751	Copperhead
4-K	SE Ultra	6206	840	Ultra Bloomer
4-L	DE ULTRA	6207	2E6	Ultra Bloomer DE
4-R	2-CH ULTRA2	6205	637	Aladdin
4-T	3-CH ULT RAID	2494	667	Clarinet
4-U	UNIV DE ULT	6204	2E6	Univ Blooming ++
4-X	4-CH U3 RAID	2498	66D	Trombone
4-Y	2-CH U3	6203	2520	Genie
5702	PCI-X Dual	5710/5712	2522	Dart+

[5703](#) [PCI-X Dual RAID 5703/5711 2522 Pram](#)[5709](#) [RAID Enable 5709 2523 Yawl](#)

SSA

Type	Name	FC	Codename
4-J	4-Port RAID	6218	Beaulieu
4-N	Enh Multinit RAID	6215	Campbell12)
4-P	160 SerialRAID	6225	Santa Cruz
4-P	160 SerialRAID +	6230	Santa Cruz
SSA backplane			
SSA Manuals			

ETHERNET

[Ethernet Info](#)

[5700 #5700 Gigabit Ethernet-SX PCI-X Goliad fiber](#)[5701 #5701 10/100/1000 Base-TX Ethernet PCI-X Goliad UTP](#)[5706 #5706 Dual Port 10/100/1000 Base-TX Ethernet PCI-X Duval](#)[5718 #5718 10 Gigabit Ethernet-SR PCI-X \(Victoria\)](#)[5707 #5707 Dual Port Gigabit TX Ethernet-SX PCI-X](#)[8-Y #2985 BNC/RJ-45 \(Klickitat\)](#)[8-Z #2987 AUI/RJ-45](#)[9-P #2968 10/100 Ethernet Tx \(Phoenix\)](#)[9-U #2969 Gigabit Ethernet-SX \(Galaxy SX\)](#)[9-Z #4951 4-Port 10/100 Base-TX Ethernet \(Clover\)](#)[A-A #2975 10/100/1000 Base-T Ethernet PCI\(Galaxy TX\)](#)

[A-E #4961 Universal 4-Port 10/100 Base-TX \(Clover+\)](#)

[A-F #4962 10/100 Ethernet II \(Scurry\)](#)

[N/A 3Com 10/100 Etherlink XL](#)

ASync

[3-B #2943 8-Port EIA-232E/RS-422A - \(Medina\)](#)

[3-C #2944 128-Port Controller - \(Trinity\)](#)

ARTIC / MULTIPROTOCOL

[6-E #6310 ARTIC960RxD Quad Digital Trunk \(Tigershark/Orca\)](#)

[6-G #6311 ARTIC960RxF Digital Trunk Resource](#)

[9-L #2962 2-Port Multiprotocol \(Hermosa\)](#)

[9-R #2947 ARTIC960Hx 4-Port Selectable \(Tigershark/Remora\)](#)

[9-S #2948 ARTIC960Hx 4-Port T1/E1](#)

[9-T #2949 ARTIC960Hx DSP Resource](#)

[9-V #2962 2-Port Multiprotocol](#)

TOKEN-RING

[8-T #2979 PCI Auto LANstreamer Tok-Ring](#)

[9-O #2920 PCI 16 Mbps Token-Ring Cricketstick](#)

[9-Y #4959 PCI 100 Mbps Token-Ring Adapter \(Shenandoah\)](#)

FIBER

[4-S #6227 Gigabit Fiber Channel - Flipper](#)

[4-W #6228 2 Gigabit Fiber Channel 64-bit - Flipper 64](#)

[5704 #6239 2-Gigabit Fibre Channel PCI-X](#)

[5716 #5716 2-Gigabit Fibre Channel PCI-X](#)

ATM

[N/A #2998 TURBOWAYS 25 ATM](#)

[9-F #2988 TURBOWAYS 155 MMF ATM \(Lumbee F\)](#)

[9-J #2963 TURBOWAYS 155 UTP ATM \(Orbit\)](#)

[A-B #2946 TURBOWAYS 622 MMF ATM - \(Big Ben\)](#)

[A-C #4953 64-bit/66MHz ATM 155 UTP \(Lumbee-U\)](#)

[A-D #4957 64-bit/66MHz MMF 155 UTP \(Lumbee-F\)](#)

FDDI

[N/A #2741 FDDI Honeycomb](#)

SP

[6-A #4022 SP Switch TB3 MX](#)

[6-C #4023 SP Switch TB3 MX2](#)

[6-D #4025 SP Switch2 for Nighthawk - Colony](#)

[6-M #4026 SP Switch2 MX2 Frigate](#)

[6-F #8396 SP System Attachment \(Switch\)](#)

[6-L #8397 SP Switch2 7017/7026 - Colony](#)

[6-L #8397 SP Switch2 7040 - Corsair](#)

[276A #8398 SP Switch2 PCI-X Attachment - Cruiser](#)

[6-K #3154 SP SAMI Serial System Attachment](#)

ESCON

[5-5 #2751 S/390 ESCON Channel \(Snow Leopard\)](#)

OTHERS

[6-B #6309 Digital Trunk Quad](#)

[6-H #4958 Cryptographic Coprocessor - Leeds-2](#)

[6-I #4963 Cryptographic Coprocessor](#)

[6-J #4960 Cryptographic Accelerator - Leeds Lite](#)

[9-N #2708 Eicon ISDN DIVA Pro 2.0 S/T](#)

[Filler, misc Parts](#)

Update: Oct 2004 by BJ Croft

MICROCHANNEL ADAPTERS

The Ethernet Corner

The SCSI Jungle

2-2 Token-Ring

2-3 4-Port Multiprotocol #2700

2-4 X.25 #2960

2-P #2959 MP/A 1-Port

SSA and Serial attachment

4-D #6214 SSA Adapter - Mayflower

4-G #6216 Enhanced SSA

(Mayflower II)

4-I #6217 SSA 4-Port RAID

(Saratoga)

4-M #6219 Enh SSA Multi-Init/RAID EL

(Fremont)

4-x 9333 Subsystem

ASYNC

3-1 #2930 8-Port EIA-232

3-2 #2940 8-Port EIA-422A

3-4 #2955 16-Port EIA-232

3-5 #2957 16-Port EIA-422A

3-6 #6400 64-Port Asynchronous

3-7 #8128 128-Port Asynchronous

Multiport/2 #7002/7004

2-C 4-Port EIA-232C #7022

2-D 8-Port EIA-232C #7026

2-E 6-Port EIA-232C #7024

2-F 4-Port EIA-232C/ 422-A #7030

2-G 8-Port EIA-422A #7028

Portmaster #7006/7008

2-H 8-Port EIA-232D #7042

2-I 8-Port EIA-422A #7044

2-J 6-Port V.35 #7046

2-K 6-Port X.21 #7048

FDDI

2-6 - FDDI Single Ring Adapter #2720

2-7 - FDDI Dual Ring Adapter #2722

2-R - FDDI Fiber Single Ring #2724

2-S - FDDI Fiber Dual Ring #2723

2-T - FDDI STP Single Ring #2725

2-U - FDDI STP Dual Ring #2726

OTHERS

5-1 #2990 3270 Connection

5-2 #2755 Block Multiplexer

5-3 #2756 ESCON

5-4 #2759 S/370 Channel Emulator

6-2 5080 Attachment/ HIA

6-3 Async Expansion

6-4 SOCC Serial Optical

6-5 Digital Trunk

6-6 Digital Trunk Dual

6-8 5080 Coax Communication

6-9 SP Switch Adapter TB3

7-1 M-Audio Capture

7-x #2401 M-Video Capture

7-5 #2404 Ultimedia Video

7-6 #6302 Ultimedia Audio

8-5 Network Terminal Accelerator 256

(See The Ethernet Corner)

8-6 Network Terminal Accelerator 2048

(See The Ethernet Corner)

8-A HIPPI

8-S Auto Token-Ring

8-U Ethernet AUI/10BaseT

(See The Ethernet Corner)

8-V Ethernet 10Base2

(See The Ethernet Corner)

8-W TURBOWAYS 100 ATM

8-X Fiber Channel/266

9-1 ARTIC960

9-9 TURBOWAYS 155 ATM

9-A Fiber Channel/1063 Short Wave



ISA ADAPTERS

- [N/A #2701 Co-Processor Multiport Adapter, Model2](#)
- [3-8 #2931 8-Port Asynchronous EIA-232 ISA Adapter](#)
- [3-9 #2933 128-Port Async Controller](#)
- [3-A #2932 8-Port Async EIA-232E/RS-422](#)
- [N/A #2961 X.25 Interface Co-Processor ISA Adapter](#)
- [N/A #2971 Auto 16/4 Token-Ring ISA Adapter](#)
- [N/A #2981 Ethernet 7020/7248](#)
- [4755 Cryptographic Adapter](#)

Nov 16 2000



Integrated Adapters

Integrated SCSI:

- [SCSI-1 7012/7013/7015](#)
- [SCSI 7006/7008/7009/7011](#)
- [SCSI-2 7012/7030](#)
- [SCSI-2 F/W 7024/7025](#)
- [SCSI-2 F/W 7043-140/240](#)
- [SCSI-2 F/W 7024-E30](#)
- [SCSI-2 F/W 7025-F30](#)
- [SCSI-2 F/W 7025-F40](#)
- [SCSI-2 F/W 7025-F50](#)

Integrated Ethernet:

- [7011 / 7006 / 7008](#)
- [7012-340 and + / 7030](#)

Updated Nov 16 2000 by Bruno Croft



SBUS ADAPTERS

N/A #4003 SSA Network Storage Interface
(Sunlight)

07/03/98

List of Adapters

		FFC	P/N	F/C
1-1	MCA Color Graphics Display	874	71F1223	#2770
1-2	MCA Grayscale Graphics Display	872	71F1224	#2760
1-3	MCA 8-Bit 3D Color Graphics (Min 3 cards)			#2780
	Base Card MGE2	130	42F6842	
	8-Bit Card MDE1	876	71F1117	
	Video Card MRV2	128	71F1151	
	Z-Buffer MZB1 (Option)	118	42F6889	
1-3	MCA 24-Bit 3D Color Graphics (Min 3 cards)			#2781
	24-Bit Card MEV2	879	71F1114	
	Base Card MGE2	130	42F6842	
	Video Card MRV2	128	71F1151	
	Z-Buffer MZB1 (Option)	118	42F6889	
1-4	MCA Graphics Subsystem Adapter/ 7235 Gto Accelerator			#4350
	7016	871	53F6532	
	7235 POWER GtO Accelerator	871	74F3158	
1-5	MCA Gt4 & Gt4x 8-bit Graphics Subsystem			#2795 #2790
	Base Graphics card	878	88G3988, 51G9396.	
	Processor card	878	52G1343, 51G9397.	
	Performance option card	878	70F9664	
1-5	MCA Gt4 Gt4x 24-bit Graphics Subsystem			#2796 #2791
	Base Graphics Card	878	88G3988, 51G9396,	
	Field Upgrade 8-to-24bit card	878	41F0503	
	Processor card	878	52G1343, 51F9397,	
	Performance option card	878	70F9664	

1-5	MCA	Gt4xi	8-Bit Graphics Subsystem				#2711
			8-Bit Graphics Card		52G4123		
			Processor Card		52G4118		
1-5	MCA	Gt4xi	24-Bit Graphics Subsystem				#2712
			24-Bit Graphics Card		52G4128		
			Processor Card		52G4118		
1-5	MCA	Gt4i	24-Bit Graphics Subsystem				
			24-Bit Graphics Card.....		52G4128		
			Processor Card.....		52G4113		
1-6	MCA	Gt3	Graphics Subsystem.....				#2777
			Base Graphics Card.....	877	00G1117		
			Processor card.....	B01	00G2916		
1-8	MCA	Gt4e	Graphics Subsystem				
			Base Graphics Card.....	B59	93H2945,		
					51G8022		
1-9	POWER	Gt3i	Graphics Subsystem				
			Base Graphics Card.....	B58	43G0681		
1-A	GXT1000		Graphics Accelerator Attachment Adapter.....			65G4886	
1-D	POWER	GXT150M	Graphics Subsystem (Neptune).....			66G4162	
1-H	POWER	GXT1000	Graphcs Accelerator Attachment.....			93H2399	
1-K	PCI	GXT800P	Graphics.....		93H2028		#2853
			W/Texture Memory 3D Graphics.....		39H8700		#2859
1-M	PCI	GXT250P.....			93H2437		#2851
1-N	PCI	GXT255P.....			93H2438		#2852
1-P	PCI	GXT120P	Video Accelerator		93H2534		#2838
1-R	PCI	GXT3000P	3D Graphics PCI.....		24L0030		#2825

1-S	PCI GXT2000P Graphics Adapter PCI.....	07L7495	#2823	
1-T	PCI GXT130P PCI Graphics Accelerator 2D.....	94H1236	#2830	
1-U	PCI GXT300P Graphics.....	03N4169	#2841	
1-V	PCI GXT4000P Graphics.....	00P2429	#2826	
1-W	PCI GXT6000P Graphics.....	00P2368	#2827	
2-1	MCA Ethernet Lan Adapter.....	852	32G0255, 00G3529, 00G3368 81F7913, 71F0974	
2-2	MCA Token-Ring H-P Network Adapter.....	850	00G2652, 02G7165, 00G2579, 22F9380	
2-3	MCA 4-Port Multiprotocol Communication Controller - Typhoon Base Card.....	855	52G4322, 53F3407	#2700
	Interface Card.....	186	8184299, 43G1845	
2-4	MCA X.25 Interface Co-Processor/2.....	849	51G9060, 41F0635	
2-6	MCA FDDI Single Ring Adapter.....	859	81F9003	
2-8	Riser Card for onboard Thick and Thin Ethernet For MCA systems.	B06	43G0382	
2-9	Riser Card for onboard Twisted Pair Riser Card..... For MCA systems.	B07	00G1276	
2-C	MCA Multiport/2 512K Base Card.....	B60	09F1888(512K)	
	Multiport/2 1MB Base Card.....	B61	09F1962(1MB)	
	4-Port EIA-232C Interface Card.....	B62	91F7976, 09F1957	
2-D	MCA Multiport/2 512K Base Card.....	B60	09F1888(512K)	
	Multiport/2 1MB Base Card.....	B61	09F1962(1MB)	
	8-Port EIA-232C Interface Card.....	B63	91F7974, 09F1889	
2-E	MCA Multiport/2 512K Base Card.....	B60	09F1888(512K)	

	Multiport/2 1MB Base Card.....	B61	09F1962(1MB)
	6-Port Synchronous EIA-232C Card.....	B65	91F7963, 15F8864
	#7002 OR #7004 AND #7024		

2-F	MCA Multiport/2 512K Base Card.....	B60	09F1888(512K)
	Multiport/2 1MB Base Card.....	B61	09F1962(1MB)
	4-Port EIA-232C/422A Card.....	B64	91F7966, 09F1890
	#7002 or #7004 and #7030		

2-G	MCA Multiport/2 512K Base Card	B60	09F1888(512K)
	Multiport/2 1MB Base Card	B61	09F1962(1MB)
	8-Port EIA-422A Interface Card	B66	15F8858

2-H	MCA Portmaster Adapter/A Base Card	B69	53F2603
	8-Port EIA-232D Interface Card	B71	53F2612

2-I	MCA Portmaster Adapter/A Base Card	B69	53F2603
	8-Port EIA-422A Interface Card	B72	53F2615

2-J	MCA Portmaster Adapter/A Base Card	B69	53F2603
	6-Port V.35 Interface Card	B73	72F0164

2-K	MCA Portmaster Adapter/A Base Card	B69	53F2603
	6-Port X.21 Interface Card	B74	04G5500

2-L	Token-Ring 1-Port Adapter	6611	
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2-M	Ethernet 1-Port Adapter	6611	
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2-N	Serial 2-Port Adapter	6611	
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2-O	V.35 Adapter	6611	
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2-P	MCA MP/A 1-port EIA-232D	996	43G0656
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2-R	MCA FDDI-Fiber Single Ring	65G1879	
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2-S	MCA FDDI-Fiber Dual Ring Upgrade Kit	43G0856	
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2-T	MCA FDDI-STP Single Ring Adapter.....	43G0875	
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	FDDI-STP Single Ring Adapter.....	65G0875	
	(Shielded twisted-pair)		

2-U	MCA FDDI-STP Dual Ring Upgrade Kit	43G0876	
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3-1	MCA 8-Port Async Adapter EIA-232	841	11H8607, 32G1257,
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			00G3448, 40F9778.	
3-2	MCA 8-Port Async Adapter EIA-422A	842	52G4757, 00G3449, 40F9766.	
3-3	MCA 8-Port Async Adapter MIL-STD188		00G2436, 81F8111, 40G9772.	
3-4	MCA 16-Port Async Adapter EIA-232	847	11H5762, 32G1256, 30F9297.	
3-5	MCA 16-Port Async Adapter EIA-422A	848	52G4739, 30F9299.	
3-6	MCA 64-Port Async Controller	834	32G1412, 00G1168, 31F4078, 59F2968, 53F3372.	
3-7	MCA 128-Port Async Controller.....	836	52G4894, 51G8925, 43G0925.	
3-8	ISA 8-Port Async EIA-232		11H5969	2931
3-9	ISA 128-Port Async Controller		11H9536	2933
3-A	ISA 8-Port Async EIA-232/RS-232A...		40H6632	2932
3-B	PCI 8-Port Async EIA-232/RS-422A...	686	93H6541	2943
3-C	PCI 128-Port Async Controller	687	93H6545	2944
4-1	SCSI Int/Ext I/O Controller....	869	51G9425, 31G9729, 02G7179, 00G2369, 00G1897, 31F4342, 30F8834.	
4-2	MCA SCSI-2 Diff High Perf Ctrl	889	11H2447, 43G0176	
4-3	Hi-Perf Disk Dr Subsystem(40MB/S)	870	52G1071, 43G0326,	

			00G2660,	
			07G5190,	
			44F5324.	
4-4	MCA SCSI-2 SE Hi-Perf Int/Ext I/O Ctrl	866	52G7509,	
			52G5484,	
			52G1171,	
4-5	MCA Disk Dr Subsystem(80MB/S)	870	00G3357,	
			00G3355	
4-6	MCA SCSI-2 Diff F/W	890	11H7660,	
			11H3599,	
			52G3304,	
			65G7315,	
			61G3809.	
4-7	MCA SCSI-2 F/W	890	93H8814,	
			11H3600,	
			52G4034.	
4-8	HI-Perf Drive Subs (40/80MB/S)	870	88G3629,	
			67G1862,	
			67G1755.	
4-A	PCI SCSI-2 F/W		93H8406, #6208	
			93H7421.	
		Now replaced by 6208	11H8085. #2408	
4-B	PCI SCSI-2 Diff F/W		93H8407, #6209	
			93H7422,	
			73H3568.	
		#2409 now replaced by 6209	11H8090 #2409	
4-C	MCA Enh SCSI-2 Diff F/W.....	890	52G3380	
4-D	SSA 4-Port Adapter		11H3614	
4-E	PCI Early ship of 4-A 73H3562 may have this label.			
4-G	MCA SSA Enhanced.....	???	31H8659	6216
4-H	PCI SCSI-2 F/W RAID Adapter.....		07L9287,	
			93H4902,	
			40H6674.	
4-I	SSA 4-Port RAID Adapter.....		89H5617	
4-J	PCI SSA 4-Port RAID Adapter.....		32H3836	

4-K	PCI Single-Ended Ultra SCSI Adapter	93H3809	
4-L	PCI Differential Ultra SCSI Adapter	40H6595	
4-M	MCA SSA Multi-Initiator/RAID EL... Option Cache Card	84H9706 74G7719	
4-N	PCI SSA Multi-Initiator/RAID EL... Option Cache Card	96H9938 74G7719	#6215 #6222
4-P	PCI Advanced SerialRAID	09L2090	#6225
	PCI Advanced SerialRAID Plus.....	34L5388	#6230
	128MB DRAM option card.....	09L5585	#6231
	Option Cache 32MB.....	09L2105	#6235
	Battery for Option Cache.....	44L0305	
4-R	PCI Dual-Channel Ultra2 SCSI.....	03N3606	#6205
4-S	PCI Gigabit Fiber Channel	09P1173 00P1882 03N4167 24L0023	#6227
4-T	PCI 3-Channel Ultra SCSI RAID.... Write Cache 32MB..... Battery for Cache.....	01K7396 21H8979 44H8429	#2494
4-U	PCI Differential Ultra SCSI	11K0671	#6204
4-X	PCI 4-Channels Ultra3 SCSI RAID Base Card Cache US Japan	37L6892 37L6902 19K0561	#2498
4-Y	PCI 2-Channel Ult3 SCSI.....	09P2544	#6203
4-W	PCI Gigabit Fiber Channel 64-bit..	09P0102	#6228
5-1	MCA PS/2 3270 Connection	854	42F6717, 22F9743
5-2	MCA Block Multiplexer Channel	862	02G7425 #2751
5-3	MCA ESCON Channel Adapter Fiber optic subassembly	865 B47	56G0294, 43G0235 43G0236
5-4	MCA S/370 Channel Emulator/A	897	65G1828
5-5	PCI S/390 ESCON Channel	674	31L7567
5700	PCI-X Gigabit Ethernet-SX	25C0	00P4501, 00P3055

5701	PCI-X 10/100/1000 Base-TX Ethernet	25C1	00P3056	
6-1	Graphics Input Device.....	819	22F9758	
6-2	5080 Attachment (AA).....	858	09G3667, 81F8403, 39F8312, 39F8282.	
6-2	System/370 Host Interface (HIA)	858	09G3667, 81F8403, 39F8312, 39F8282.	
6-3	Async Expansion Adapter	867	53F3621	
6-4	Serial Optical Channel Converter	861	59F2969	
6-5	Digital Trunk Adapter	***	61F5396, 54F0738.	
6-6	Voice Server Dual Attachment.....	43G	3317	
6-8	5080 Coax Communications.....	88G	2838	
6-9	MCA SP Switch TB3.....	26H	7241	#4020
6-A	PCI SP Switch Adapter TB3 MX...	763	31L7847, 31L7766, 11J5135.	#4022
(Note: This now subs to a TB2 MX2 12K0551)				
6-B	PCI Digital Trunk Quad Base.....	87H	3451	
	Daughter....	10J	2272	
6-C	SP Switch Adapter TB3 MX2 PCI	12K	0551	4023
			05N5837	
			31L7736	
			21L3889	
6-D	Switch2 Colony - Nighthawk only.....	11P	1943, 4025 11P1934, 11P1698.	
6-E	PCI ARTIC960RxD Quad Digital Trunk....	87H	3734	6310

	Quad T1/E1 DTA.....	09J8829	
6-E	Artic960RxD Quad Digital Trunk PCI	09J8829	6310
6-F	SP System Attach Adapter..... 764 (S7X S8X 7040)	31L8495 31L7741 08L7741	8396
6-G	ARTIC960 RxF Digital Trunk Resource	47L8851	
6-H	PCI Cryptographic Processor.....	10J0595	4958
6-K	PCI SAMI SP Att Clust Srvr Ctrl to CWS	31L7196	
6-L	PCI SP Switch2 Attach 7017/7026..... 7040 Regatta...	11P4087 00P3127	8397 includes hot swap cage.
X-X	PCI SP Switch2 Attach 7039 FFC 766... Required PSSP3.5 Ptf Set #4	44P2938	8398
6-M	Switch2 MX2 Frigate.....	44P0820, 44P0134, 11P4081.	4026
7-1	M-Audio Capture & Plbck Adapter	977 51G8018,	00G3158
7-2	M-Video Capture Adapter	985 32G0258	(NTSC)
7-3	M-Video Capture Adapter	985 32G0263	(PAL)
7-5	Ultimedia Video Adapter.....	xxx 88G3711	
7-6	Ultimedia Audio Adapter.....	715 88G2774	
7-9	MCA Ultimedia Video Capture		
	Style A	93H8542	2638
	Style B	93H5248	2638
8-5	MCA Network Terminal Accelerator 256	838 51G8538	
8-6	MCA Network Terminal Accelerator 2048	838 51G8539	
	High-Performance Parallel Interface		#2735
	Processor card.....	51G9994	
8-A	Transmit card.....	51G9996	

8-B	Receive card.....		11H2504	
8-S	MCA Auto Token-Ring LANstreamer MC32		65G7568	
8-T	PCI Auto Token-Ring LANstreamer		42H3377, 04H8098	#6157
8-U	Ethernet LAN Adapter 8F95 AUI and 10BaseT.....	D82	39H8817	
8-V	Ethernet LAN Adapter 8F95 AUI and 10Base2.....	D81	39H8826	
8-W	TURBOWAYS 100 ATM Adapter.....	944	73G9821	
8-X	Fiber Channel/266 Adapter.....	910	52G1006, 65G1936	
8-Y	Ethernet PCI Adapter BNC/RJ-45....	742	93H1902, #2985 11H8128 D60	
8-Z	Ethernet PCI 15-pin/RJ-45_____	D59	11G8130 #2987 D60	
9-1	ARTIC960 4-Port Multiprotocol__ Base Card	713	61G2916	#2921, 2924, 2928
	Application Interface Board.....	C95	61G2961	
9-2	ARTIC960 8-Port X.21 Base Card		61G2916	#2938
	Application Interface Board....		06H2141	
9-3	ARTIC960 Adapter 8-Port EIA-232E Base Card		61G2916	#2929
	Application Interface Board....		11H3786	
9-4	ARTIC960 Adapter Base Card		61G2916	#2935
	Application Interface Board....		11H3795	
9-9	TURBOWAYS 155 ATM Adapter.....		72H3043, 38H6511, 38H6403, 34H6490.	
9-A	FIBRE CHANNEL 1063 Adapter Short Wave	911	12H1292	
9-E	155 ATM Video Streaming		73H1685	

9-F	Turboways 155 PCI MMF ATM	#2988	21H3890	
9-J	Turboways 155 PCI Utp ATM	#2963	99G9547	
9-K	10/100Mbps Ethernet MCA SMP		07L6601, 93H8022	
9-L	2-Port Multiprotocol PCI	#2962	93H6086	
9-N	Eicon ISDN DIVA Pro 2.0 S/T...	#2708	93H5839	
9-O	PCI Token-Ring Adapter	#2920	93H6594	
9-P	10/100Mbps Ethernet Tx PCI	#2968	94H0823, 91H0397.	
9-Q	10/100Mbps Ethernet MCA UNI		07L6605, 93H1505.	
9-R	ARTIC960Hx 4-Port Selectable PCI	#2947	87H3427 Base 87H3413 Mezzanine 87H3621 8MB Memory	
9-S	ARTIC960Hx 4-Port T1/E1 PCI.....	#2948	87H3427 Base 87H3428 Mezzanine	
9-U	Gigabit Ethernet-SX	#2969	09P2098, 41L6396, 07L8916. 07L8918 is not a FRU	
9-V	2-Port Multiprotocol PCI	#2962	41L5235	
9-Y	100Mbps Token-Ring PCI.....		00P1476 #4959 03N3554	
9-Z	4-Port 10/100 Ethernet.....		03N3952 #4951	
A-A	PCI 10/100/1000 10Base-T Ethernet.....		00P1690 #2975	
A-B	PCI Turboways 622 MMF ATM.....		97H7782 #2946	
A-C	PCI ATM 155 UTP 64-BIT 66MHz.....		#4953	
A-E	PCI 4-Port 10/100 Ethernet Base-TX....		09P1421 #4961	
A-F	PCI 10/100 Ethernet II.....		09P5023 #2530	
N/A	MCA GT1 (7011-220).....		10G8659 #4208	
N/A	MCA GT1X (7011-220/230).....		51G7773 #9280	

N/A	MCA GT1B (7011-220).....	51G8017	#2804
N/A	GXT100 (7011-250).....	52G3206	#2677
N/A	GXT110P (7024-E20/E30 7025-F30).....	93H7983	#2839
N/A	GXT150 (7011-250).....	52G3207	#2667
N/A	GXT150L (7006-41T/W).....	88G2479	#9651
N/A	GXT155L (7006-41T/W).....	88G2547	#2665
N/A	GXT150P (7020-40P/7248-43P).....	8184190	#2648
N/A	GXT500 Graphics Adapter.....	11H5872	#2643
N/A	GXT500D Graphics Adapter.....	11H5873	#2645
N/A	S15 PCI Graphics Adapter.....	12H0375	#2657
N/A	4-Port Multiprotocol Communication Ctrl - Gale (Co-Processor Multiport)		#2701
	Base Card OMB memory.....	33F8967	
	Interface Daughter Card.....	84F7540	
	1MB memory.....	53F2662	
N/A	X.25 Interface Co-Processor ISA....	40H1937	#2961
N/A	3COM Fast EtherLink XL PCI 10/100 Ethernet		#2986
		94H0385	
	(Don't confuse this adapter with the IBM 9-P !)		
N/A	PCI TURBOWAYS 25 ATM.....	93H5513	#2998
N/A	FDDI SK-NET LP SAS Single Fiber.....	73H3405	#2741
N/A	FDDI SK-NET LP SAS Dual Fiber.....	73H3401	#2742
N/A	FDDI SK-NET LP SAS Single Copper.....	73H3413	#2743

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Get RSINFO from ftp://w3.mtlisc.can.ibm.com/outgoing

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Bruno Croft



PCI Graphics Adapters

Name	Type	FC	FFC	Codename
GXT110P	N/A	#2839	900	Brushy
GXT120P	1-P	#2838	685	SageBrush
GXT130P	1-T	#2830	655	Maui
GXT135P	1-X	#2848	67E	Lanai
GXT135P	2849	#2849	67E	Lanai
GXT250P	1-M	#2851	786	Skyblue
GXT255P	1-N	#2852	D86	Skyblue
GXT300P	1-U	#2841	78D	Mirage
GXT500P	1-I	#2854	787	Mint
GXT550P	1-J	#2855	D95	Mint
GXT800P	1-K	#2853	806 297	Supermint (DIMM)
GXT800P	1-L	#2869	806 297	Supermint (Texture)
GXT1000P	1-H	#2856	908	Ruby
GXT2000P	1-S	#2823	657	Mirage
GXT3000P	1-R	#2825	778	Sierra
GXT4000P	1-V	#2826	78B	Sonora Lite
GXT4500P	1-Y	#2842	78B	Mojave Lite
GXT6000P	1-W	#2827	68E	Sonora Heavy
GXT6500P	1-Z	#2843	68E	Mojave Heavy
MVP	N/A	#2837	775	Cobalt
S15	N/A	#2657	82C	Glacier

Update: Sep 06 2002 by Bruno Croft



MCA GRAPHICS ADAPTERS

- [CODE NAMES+](#)
- [1-1 #2770 COLOR GRAPHICS DISPLAY](#)
- [1-2 #2760 GRAYSCALE GRAPHICS DISPLAY ADAPTER](#)
- [1-3 #2780 8-Bit 3D COLOR GRAPHICS PROCESSOR](#)
- [1-3 #2781 24-Bit 3D COLOR GRAPHICS PROCESSOR](#)
- [1-4 #4350 GRAPHICS SUBSYSTEM ADAPTER/ GTO 7235-002](#)
- [1-5 #2790 GT4/GT4X 8-Bit](#)
- [1-5 #2791 GT4/GT4X 24-Bit](#)
- [1-5 #2713 GT4I 24-Bit](#)
- [1-5 #2711 GT4XI 8-Bit/24-Bit](#)
- [1-6 #2777 GT3 GRAPHICS SUBSYSTEM](#)
- [1-8 #2776 Gt4e GRAPHICS SUBSYSTEM](#)
- [1-9 #2768 Gt3i GRAPHICS SUBSYSTEM](#)
- [1-A #2820 GXT1000 7250](#)
- [1-D #2650 GXT150M Neptune](#)
- [1-E #2650 GXT150M Neptune](#)
- [1-Q #2850 GXT800M](#)

- [6-1 #2810 GRAPHICS INPUT DEVICE](#)
- [N/A #4208 GT1..... \(7011-220/230\)](#)
- [N/A #9280 GT1B..... \(7011-220/230\)](#)
- [N/A #2804 GT1X..... \(7011-220/230\) White Oak](#)
- [N/A #2766 GXT100... \(7011-250\)](#)
- [N/A #2767 GXT150... \(7011-250\)](#)
- [N/A #9651 GXT150L.. \(7006\)](#)
- [N/A #2665 GXT155L.. \(7006\)](#)
- [N/A #2648 GXT150P.. \(7020-40P/7248-43P\)](#)
- [N/A #2644 GXT500... \(7006\)](#)
- [N/A #2645 GXT500D.. \(7006\)](#)

PCI Adapters and V4 Filesets

Other [link](#)

Adpt Label	Feature Code	Description	Fileset
3-B	2943	8-Port Asynchronous EIA-232E/RS-422A	devices.pci.4f111100.* devices.pci.4f111b00.* devices.pci.4f111b00.*
3-C	2944	128-Port Async Ctrl	devices.pci.4f111b00.rte
4-A	2408	SCSI-2 Fast/Wide	devices.pci.00100f00.*
4_A	6208		devices.pci.00100300.*
4-B	2409	SCSI-2 Differential F/W	devices.pci.14102e00.*
4_B	6209		
4-E		Same as 4-A	
4-F		Same as 4-B	
4-H	2493	SCSI-2 Fast/Wide RAID	devices.pci.14102e00.rte devices.pci.14102e00.vsmmit
4-J	6218	SSA 4-Port RAID Adapter	devices.pci.14104500.*
4-K	6206	Single-Ended Ultra SCSI	devices.pci.00100f00.*iag
4-L	6207	Differential Ultra SCSI	devices.pci.00100f00.rte
4-N	6215	SSA Multi-Initiator/RAID	devices.pci.14104500.*
4-T	2494	3-Channel Ultra2 SCSI RAID	devices.pci.14102e00.*
4-X	2498	4-Channel Ultra3 SCSI RAID	devices.pci.14102e00.*
5702	5712/ 5710	Dual Channel Ultra320	devices.pci.14106602.rte PCI-X
5703	5703/ 5711	PCI-X Dual Channel Ultra320 RAID	devices.pci.14107802.rte

6-8	6309	Digital Trunk Quad Adapter	(separate LPP 5765-B81) DirectTalk for AIX Version 2.1
6-E	6310	ARTIC960RxD Quad Digital Trunk	devices.artic960.rte
6-F	8396	Not in AIX. device driver is part of PSSP software.	
7-9	2638	Ultimedia Video Capture	devices.pci.31114571.*
8-L	2962	2-Port Multiprotocol	devices.pci.331121b9.*
8-T	2979	Auto LANStreamer Token-Ring	devices.pci.14101800.*
8-Y	2985	Ethernet 10B2/10BT	devices.pci.22100020.*
8-Z	2987	10base5/10baseT	
9-F	2988	Turboways 155 MMF ATM	devices.pci.14107c00.com
9-J	2963	Turboways 155 UTP ATM	devices.pci.14107c00.*
N/A	2998	Turboways 25 ATM	devices.mca.8f7f.com devices.pci.14105300.*
9-N	2708	Eicon ISDN DIVA Pro 2.0 S/T Adapter	???
9-O	2920	Token-Ring Adapter (DIX/TP)	(on separate media with adapter, or on update CD) devices.pci.14103e00.diag devices.pci.14103e00.rte
9-P	2968	IBM 10/100 Ethernet Tx Adapter	devices.pci.23100020.diag devices.pci.23100020.rte
9-U	2969	Gigabit Ethernet-SX	devices.pci.14100401.*
A-A	2975	10/100/1000 Base-T Ethernet	devices.pci.14100401.*
A-E	4961	4-Port 10/100 Ethernet Base-TX	devices.pci.23100020.*
A-F	4962	10/100 Ethernet II	devices.pci.1014ff01.*

OEM ADAPTERS

N/A	8242	3Com Ethernet 3C590/595 10/100 Mbps Adapter 3Com Ethernet 3C905	pci3ent.obj OR devices.pci.b7105059.rte
N/A	2986	Etherlink XL 10/100 Mbps Adapter	devices.pci.b7105090.diag devices.pci.b7105090.rte
N/A	2741	SysKonnnect FDDI Fiber Single Ring Adapter SysKonnnect FDDI Fiber	devices.pci.48110040.diag
N/A	2742	Dual Ring Adapter	devices.pci.48110040.rte
N/A	2743	SysKonnnect FDDI UP Single Ring Adapter	
N/A	8246	Olicom Token-Ring Adapter	devices.pci.8d100100.rte

Last updated Feb 2004

MCA Adapters and V4 Filesets

ASCII version of a better page found [here](#)

FC	Description	Fileset
2-1	2980 Ethernet High-Performance LAN Adapter	devices.mca.8ef5.com (4.1 only) devices.mca.8ef5.diag devices.mca.8ef5.rte
2-2	2970 Token-Ring High-Performance Network Adapter	devices.mca.8fc8.com devices.mca.8fc8.diag devices.mca.8fc8.rte devices.mca.8fc8.unicode
2-3	2700 4-Port Multiprotocol Communications Controller	devices.mca.8f70.client devices.mca.8f70.diag devices.mca.8f70.mppq devices.mca.8f70.rte
2-4	2960 X.25 Interface Co-processor/2	devices.mca.eff0.diag devices.mca.eff0.rte
2-6	2720 FDDI Single Ring Adapter	devices.mca.8ef4.com devices.mca.8ef4.diag devices.mca.8ef4.rte devices.mca.8ef4.unicode
2-7	2722 FDDI Dual Ring Upgrade Kit Adapter	
2-C	7002 or 7004 and 7022 4-Port EIA-232C Multiport/2 Adapter	(separate LPP)
2-D	7002 or 7004 and 7026 8-Port EIA-232C Multiport/2 Adapter	(separate LPP)
2-E	7002 or 7004 and 7024 6-Port Synchronous EIA-232C Multiport/2 Adapter	(separate LPP)
2-F	7002 or 7004 and 7030 4-Port EIA-232C/4-Port EIA-422A Multiport/2 Adapter	(separate LPP)

2-G	7002 or 7004 and 7028	8-Port EIA-422A Multiport/2 Adapter	(separate LPP)
2-H	7006 or 7008 and 7042	8-Port EIA-232D Portmaster Adapter/A	
2-I	7006 or 7008 and 7044	8-Port EIA-422A Portmaster Adapter/A	(separate LPP + base) sx25.* (AIXLink) devices.mca.8f70.client
2-J	7006 or 7008 and 7046	6-Port V.35 Portmaster Adapter/A	devices.mca.8f70.diag devices.mca.8f70.rte
2-K	7006 or 7008	6-Port X.21 Portmaster Adapter/A	
2-P	2959	Multiprotocol Adapter/A (MP/A)	devices.mca.deff.diag devices.mca.deff.rte devices.mca.deff.sdlc
2-R	2724	FDDI-Fiber Single Ring Adapter	
2-S	2723	FDDI-Fiber Dual Ring Upgrade Kit Adapter	devices.mca.8ef4.com (4.1 only) devices.mca.8ef4.diag
2-T	2725	FDDI-STP Single Ring Adapter	devices.mca.8ef4.rte devices.mca.8ef4.unicode
2-U	2726	FDDI-STP Dual Ring Upgrade Kit Adapter	
3-1	2930	8-Port Async Adapter - EIA-232	devices.mca.edd0.com devices.mca.edd0.diag devices.mca.edd0.rte
3-2	2940	8-Port Async Adapter - EIA-422	devices.mca.edd1.diag devices.mca.edd1.rte
3-3	2950	8-Port Async Adapter - MIL-STD 188	devices.mca.edd2.diag devices.mca.edd2.rte
3-4	2955	16-Port Async Adapter -	devices.mca.edd6.diag

		EIA-232	devices.mca.edd6.rte
3-5	2957	16-Port Async Adapter - EIA-422	devices.mca.edd3.diag devices.mca.edd3.rte
3-6	6400	64-Port Async Controller	devices.mca.61fd.diag devices.mca.61fd.rte devices.mca.ffe1.diag devices.mca.ffe1.rte
3-7	8128	128-Port Async Controller	devices.mca.ffe1.rte devices.mca.ffe1.unicode
4-1	2828 2835	SCSI Internal/External I/O Controller	devices.mca.8d77.com (4.1 only) devices.mca.8d77.diag devices.mca.8d77.rte devices.mca.8d77.unicode devices.mca.8f78.diag devices.mca.8f78.rte
4-2	2420	SCSI-2 Differential External I/O Controller	devices.mca.8f78.unicode devices.mca.8d77.com (4.1 only)
4-3	6210	High Performance Disk Drive Subsystem Adapter	devices.mca.8d77.diag
4-4	2831 2410	SCSI-2 Single-Ended Internal/External I/O Controller	devices.mca.8d77.rte devices.mca.8d77.unicode devices.mca.8f78.diag devices.mca.8f78.rte devices.mca.8f78.unicode
4-5	6211	High Performance Disk Drive Subsystem Adapter (80MB/s)	devices.mca.8efc.com devices.mca.8efc.diag devices.mca.8efc.rte
4-6	2416	SCSI-2 Differential Fast/Wide Adapter/A	devices.mca.8efc.com devices.mca.8efc.diag devices.mca.8efc.rte
4-7	2415	SCSI-2 Single-Ended Fast/Wide Adapter/A High Performance Disk Drive Subsystem Adapter (40/80MB/s)	devices.mca.8f78.diag devices.mca.8f78.rte devices.mca.8f78.unicode devices.mca.8efc.com devices.mca.8efc.diag
4-8	6212	SCSI-2 Differential Fast/Wide Adapter/A	devices.mca.8efc.rte
4-C	2412	SSA 4-Port Disk Subsystem Adapter (2-Way)	
4-D	6214		

4-G	6216	Enhanced SSA 4-Port Adapter (8-Way)	devices.mca.8f97.com devices.mca.8f97.diag devices.mca.8f97.rte
4-I	6217	SSA 4-Port RAID Adapter	
4-M	6219	SSA Multi-Initiator/RAID EL adapter	
5-1	2990	3270 Connection Adapter	devices.mca.elff.diag devices.mca.elff.rte (separate LPP 5765-604)
5-2	2755	Block Multiplexer Channel Adapter	devices.mca.fe92.blkmux devices.mca.fe92.rte (separate LPP)
5-3	2754	ESCON Channel Emulator Adapter	escondiag.obj s390.driver (separate LPP 5765-603)
5-3	2756	ESCON Control Unit Channel Adapter	devices.mca.8fc3.diag devices.mca.8fc3.rte escon.cuu (separate LPP 5799-QDA)
5-4	2759	S/370 Channel Emulator/A Adapter	s370.driver s370diag.obj
6-1	2810	Graphics Input Device Adapter	devices.mca.edd5.com devices.mca.edd5.diag devices.mca.edd5.rte devices.mca.edd5.X11
6-2	2800	System/370 Host Interface Adapter	????
6-2	2801 2802	5086/5085 Attachment Adapter	devices.mca.8787.diag devices.mca.8787.rte devices.mca.8787.ucode
6-3	N/A	Async Expansion Adapter	none
6-4	2860	Serial Optical Channel Converter	devices.sys.slc.diag devices.sys.slc.rte (separate LPP)
6-5	6300	Digital Trunk Adapter	devices.mca.e555.diag devices.mca.e555.rte devices.mca.e555.ucode (separate LPP)

6-6	6305	Digital Trunk Dual Adapter	devices.mca.e556.diag devices.mca.e556.rte devices.mca.e556.unicode
6-8	2840	5080 Coax Communications Adapter	devices.mca.efbd.diag devices.mca.efbd.rte devices.mca.efbd.unicode
7-1	6301	M-Audio Capture and Playback Adapter	NS at V4
7-2	2400	M-Video Capture Adapter (NTSC)	NS at V4
7-3	2401	M-Video Capture Adapter (PAL)	NS at V4
	2404	Ultimedia Video I/O Adapter	(separate LPP 5696-709)
7-5		JPEG Compression Option for #2404	devices.mca.8f96.rte
	2405		
7-6	6302	Ultimedia Audio Adapter	(separate LPP 5696-709) devices.mca.dfe5.rte
8-5	2402	Network Terminal Accelerator Adapter 256	devices.mca.0072.diag devices.mca.0072.rte devices.mca.0095.diag
8-6	2403	Network Terminal Accelerator Adapter 2048	devices.mca.0095.rte (NS at 4.1.4 or lower)
8-A		HIPPI Transmit Adapter	(separate LPP 5765-551)
	2735		devices.mca.8fe5.diag devices.mca.8fe5.rte
8-B		HIPPI Receive Adapter	devices.mca.8fe5.unicode
8-S	2972	Auto Token Ring LAN Streamer MC 32 Adapter High Performance 8F95	devices.mca.8fa2.diag devices.mca.8fa2.rte
8-U	2992	Ethernet LAN Adapter AUI/10BaseT High Performance 8F95	devices.mca.8f95.diag devices.mca.8f95.rte
8-V	2993	Ethernet LAN Adapter 10Base2	

			devices.mca.8f7f.com (4.1 only)
8-W	2984	Turboways 100 ATM Adapter	devices.mca.8f7f.diag devices.mca.8f7f.rte devices.mca.8f7f.unicode
8-X	1906	Fiber Channel/266 Adapter	NS at V4
	2921		
9-1	2924	ARTIC960 4-Port Multiprotocol Controller	
	2928	ARTIC960 (4M) 8-Port X.21 Communications Controller	(separate LPP - AIXLink) sx25.* (version 1.1.3 or higher)
9-2	2938		
		ARTIC960 (4M) 8-Port EIA-232E Communications Controller	
9-3	2929		
		ARTIC960 (4M) 6-Port V.36 Communications Controller	
9-4	2935		
			devices.mca.8f67.com devices.mca.8f67.diag devices.mca.8f67.diag.com
9-9	2989	Turboways 155 ATM Adapter	devices.mca.8f67.rte devices.mca.8f67.unicode devices.mca.8fe2.com (4.1 only)
			devices.mca.8fe2.diag devices.mca.8fe2.rte devices.mca.8fe2.unicode (4.1 only)
9-A	1902	Fiber Channel/1063 Adapter Short Wave	
	1904		
9-E	2999	155 ATM Video Streaming Adapter	???
			(shipped on separate media with adapter for 4.1.5; On base AIX media with 4.2.1 and higher)
9-K	2964	10/100 Mbps Ethernet TX Adapter	devices.mca.8f62.diag devices.mca.8f62.rte
	2994		
	2707	Eicon ISDN Diva MCA Adapter	???
N/A	P/N		
	93H5497	ISDN cable=p/n 93H5522	

Last updated April 1999

ISA Adapters and V4 Filesets

ASCII version of a better page found [here](#)

Adapter Label	Feature Code	Description	Fileset
3-8	2931	8-Port Asynchronous EIA-232	devices.isa.cxia.com devices.isa.cxia.diag devices.isa.cxia.rte devices.isa.cxia.unicode
3-9	2933	128-Port Async Ctrl	devices.isa.cxial28.diag devices.isa.cxial28.rte devices.isa.cxial28.unicode
3-A	2932	8-Port Asynchronous EIA-232E/RS422A	devices.isa.pc8s.diag devices.isa.pc8s.rte
N/A	2701	Co-Processor Multiport Adapter, Model 2	devices.isa.mm2.diag devices.isa.mm2.mpqp devices.isa.mm2.rte
N/A	2961	X.25 Interface Co-Processor/1 Adapter	devices.isa.clx.diag devices.isa.clx.rte
N/A	2971	IBM ISA Token Ring	devices.isa.tokenring.rte (AIX 4.1 only) devices.isa.PNP80CC.rte (AIX 4.1, 4.2, 4.3)
N/A	2981	IBM ISA Ethernet	devices.isa.ethernet.rte (AIX 4.1 only) devices.isa.IBM0010.rte (AIX4.1, 4.2, 4.3)

OEM ISA Adapters

N/A	8240 8241	3Com ISA Ethernet Adapter	i3ent.obj
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Last updated April 1999

PCI Adapters and V4 FilesetsASCII version of a better page found [here](#)

Adapter Label	Feature Code	Description	Fileset
1-H	2856	GXT1000 Graphics Accelerator Attachment Adapter	devices.pci.14102000.diag devices.pci.14102000.rte devices.pci.14102000.unicode devices.pci.14102000.X11
1-I	2854	GXT500P Graphics Accelerator Adapter	devices.pci.14105400.diag devices.pci.14105400.rte
1-J	2855	GXT550P Graphics Accelerator Adapter	devices.pci.14105400.X11
1-K	2853	GXT800P 3D Graphics Adapter	devices.pci.14105e00.diag devices.pci.14105e00.rte
	2859	GXT800P w/Texture Memory 3D Graphics Adapter	devices.pci.14105e00.X11
1-M	2851	GXT250P High Performance Graphics Adapter	devices.pci.14103c00.com devices.pci.14103c00.diag
1-N	2852	GXT255P High Performance Graphics Adapter	devices.pci.14103c00.rte devices.pci.14103c00.X11
1-P	2838	GXT120P 2D Video Accelerator Graphics Adapter	devices.pci.2b101a05.diag devices.pci.2b101a05.rte devices.pci.2b101a05.X11 devices.pci.0e100091.diag
1-R	2825	GXT3000P Graphics	devices.pci.14108e00.*
1-S	2823	GXT2000P Graphics	devices.pci.1410b800.*
1-T	2830	GXT130P Graphics	devices.pci.2b102005.*
1-U	2841	GXT300P Graphics	devices.pci.14107d01.*
1-V	2826	GXT4000P Graphics	devices.pci.14106e01.*

1-W	2827	GXT6000P Graphics	devices.pci.14107001.*
1-X	2848	GXT135P Graphics	devices.pci.14103302.*
N/A	2837	MVP (No support 4.3)	devices.pci.33531188.*
N/A	2657	S15 Graphics Adapter	devices.pci.0e100091.rte devices.pci.0e100091.X11
N/A	2839	GXT110P Video Accelerator Adapter	devices.pci.33531188.diag devices.pci.33531188.rte devices.pci.33531188.X11
N/A	2648	GXT150P Graphics Adapter	devices.pci.14101b00.diag devices.pci.14101b00.rte devices.pci.14101b00.X11
N/A	N/A	G10 Graphics Adapter	devices.pci.1c104ac2.rte devices.pci.1c104ac2.X11 devices.pci.3353c088.com devices.pci.3353c088.diag devices.pci.3353c088.rte devices.pci.3353c088.X11 devices.pci.3353c088.X11.com
N/A	N/A	E15 Graphics Adapter	devices.pci.3353c188.diag devices.pci.3353c188.rte devices.pci.3353c188.X11 devices.pci.3353c288.diag devices.pci.3353c288.rte devices.pci.3353c288.X11 devices.pci.3353c388.diag devices.pci.3353c388.rte devices.pci.3353c388.X11

Last updated Nov 13 2001 Bruno Croft

MCA Adapters and V4 Filesets

ASCII version of a better page found [here](#)

FC	Description	Fileset
1-1 2770	Color Graphics Display Adapter	devices.mca.8ee4.diag devices.mca.8ee4.rte devices.mca.8ee4.X11
1-2 2760	Grayscale Graphics Display Adapter	devices.mca.8ee5.diag devices.mca.8ee5.rte devices.mca.8ee5.X11
1-3 2780	8-Bit 3D Color Graphics Processor	NS at V4
1-3 2781	24-Bit 3D Color Graphics Processor	NS at V4
1-4 4350	Graphics Subsystem Adapter (GTO)	devices.mca.8ffd.diag devices.mca.8ffd.rte devices.mca.8ffd.X11
1-5 2795 2790	POWER Gt4 and POWER Gt4x 8-bit Graphics Subsystem	devices.mca.8ee3.diag devices.mca.8ee3.rte devices.mca.8ee3.unicode
2796 2791	POWER Gt4 and POWER Gt4x 24-bit Graphics Subsystem	devices.mca.8ee3.X11
2711	POWER Gt4xi 8-bit	
3712	Graphics Subsystem POWER Gt4xi 24-bit Graphics Subsystem	
2713	POWER Gt4i 24-bit Graphics Subsystem	
1-6 2777	POWER Gt3 Graphics	

Subsystem

1-8 2776 POWER Gt4e Graphics
Subsystem

1-9 2768 POWER Gt3i Graphics
Subsystem

1-A	2820	GXT1000 Graphics Accelerator Attachment Adapter	devices.mca.8fbc.diag devices.mca.8fbc.rte devices.mca.8fbc.unicode devices.mca.8fbc.X11
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1-D or 1-E	2650	POWER GXT150M Graphics Subsystem	devices.mca.8f9a.diag devices.mca.8f9a.rte devices.mca.8f9a.unicode devices.mca.8f9a.X11
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1-Q	2850	POWER GXT800M 3D Graphics Adapter	devices.mca.8f61.diag devices.mca.8f61.rte devices.mca.8f61.X11
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Last updated April 1999

IBM RS/6000 - Memory Quick Chart

IBM RS/6000 - Memory Quick Chart

N - No S - Single P - Pair Q - Quad or Pair		355/360/36T/365/370/37T/375																					
		3 3 3			5 5 5			5 5 5			5 5 5			9 9 9			9 9 9			7 7 7			
		2 2 4	2 3 3	4 5 5	6 7 8	8 3 5	7 8 9	3 4 7															
		0 E 0	0 0 H	0 0 L	0 0 0	H 0 0	0 0 0	0 0 0															
		3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3	3 3 3															
SD1	S1	S S N	N S P	N N N	N N N	N N N	N N N	N P N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	P S N				
HD1	S1.5	S S N	N S P	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N P N				
HD2	U1	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N				
HD3	S3.1	N N S	N N N	P N P	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N				
HD3	S3.2	N N S	N N N	P N P	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N				
HD3	S3.3	N N S	S N N	P N P	S P S	P N N	P P P	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N S				
HD3	S4.5	N N S	S N N	P N P	S P S	P N N	P P P	Q N N	P P P	Q N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N S				
		3 3	5																				
		2 5	2																				
		H 0	H																				
																	5 5	9 9		7 7			
																	8 9	7 8		4 7			
																	F 0	B B		1 1			



RSINFO/6000

MEMORY vs MODEL

<u>6015</u>	<u>7028-6C1 6E1 6C4 6E4</u>
<u>7006-41x/42x</u>	
<u>7008-M20</u>	
<u>7009-C10/C20</u>	<u>7029-6C3 6E3</u>
<u>7010-120/130/140/150/160</u>	
<u>7011-220/230/25x</u>	
<u>7012-3xx/Gxx</u>	<u>7030-3AT/3BT/3CT</u>
<u>7013-5xx/Jxx</u>	
<u>7015-9xx/Rxx</u>	<u>7038-6M2</u>
<u>7016-730/Rxx</u>	<u>7040-671/681</u>
<u>7017-S70/S7A/S80/S85</u>	<u>7043-140/150/240/260 43P</u>
<u>7018-7xx/Rxx</u>	<u>7044-170/270 44P</u>
<u>7020-40P</u>	<u>7046-B50</u>
<u>7024-E Series</u>	<u>7248-43P</u>
<u>7025-F Series</u>	<u>9076-SP2</u>
<u>7026-H/M Series</u>	<u>p5 911X</u>
	<u>9112-265</u>

RIO LOBO SMP MEMORY
PNs MARKED
EC LEVELS
TECHNICAL INFO

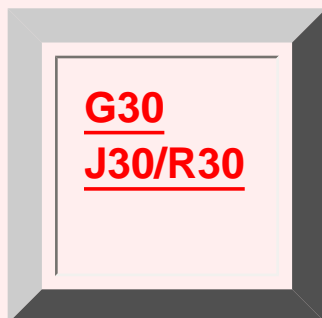
Oct 2004 by Bruno Croft



RSINFO/6000



Rio Lobo SMP Memory



26 APRIL 2000

IBM RS/6000 - Memory Part Numbers

Description	Base Card		SIMM	
	FRU	On Card	On SIMM	FRU
Base S1 Card	59F4433	59F4431		
8MB Card	-	53F3089	23F8549	59F4581
16MB Card	-	53F3091	68X6271	59F4582
???	-	41F0521		
Base U1 Base	59F4436	71F0853		
32mb U1 Card	71F0753	71F0855	23F7366	59F4583
???	-	59F3116		

Description	Base Card		SIMM	
	FRU	On Card	On SIMM	FRU
Base S1.5 Card	81F8926	81F8924		
32mb S1.5 Card	-	81F8925	68X6356	70F9973
64mb S1.5 Card	-	81F8927		
	-	71F0064		
	-	71F0062		
	-	70F9974		
	-	70F9970		
	-	59F3099		
Base S2 Card	00G0894	00G0892		
32mb Card	-	70F9723	³ 68X6356	70F9973
64mb Card	-	81F7497	³ 68X6357	70F9976
			³	

Description	Base Card		SIMM	
	FRU	On Card	On SIMM	FRU

Base S3.0 Card	71F1395	71F1396		
	-	71F1393		
	-	71F1382		
	-	71F0636		
	-	71F0633		
	-	70F9968		
Base S3.1 Card	00G2208	00G2205		
8mb S3.1 Card	-	00G2206	23F8549	59F4581
16mb S3.1 Card	-	00G2209	68X6271	59F4582
	-	00G2211	68X6356	70F9973
	-	00G2213	68X6357	70F9976

Description	Base Card		SIMM	
	FRU	On Card	On SIMM	FRU
Base S3.2 Card	32G1022	32G0101		
8mb S3.2 Card	-	32G0102	23F8549	59F4581
16mb S3.2 Card	-	32G0103	68X6271	59F4582
32mb S3.2 Card	-	32g0104	68X6356	70F9973
64mb S3.2 Card	-	32G0105	68X6357	70F9976
???		32G0090		
Base S3.3 Card	32G1866	32G1846		
8mb S3.3 Card	-	32G1858	23F8549	59F4581
16mb S3.3 Card	-	32G1859	68X6271	59F4582
32mb S3.3 Card	-	32G1860	68X6356	70F9973
64mb S3.3 Card	-	32G1861	68X6357	70F9976
128mb S3.3 Card	-	43G0591	32G8212	43G1796

Description	Base Card		SIMM	
	FRU	On Card	On SIMM	FRU
Base S4.5 Card	65G1803	65G1797		
8mb S4.5 Card	-	65G1793	23F8549	59F4581
16mb S4.5 Card	-	65G1799	68X6271	59F4582
32mb S4.5 Card	-	65G1800	68X6356	70F9973
64mb S4.5 Card	-	65G1801	68X6357	70F9976
128mb S4.5 Card	-	65G1802	32G8212	43G1796

256mb S4.5 Card	52G4729	52G4684		
		52G4685	64G2074	65G6452
Base S4.6 Card	52G4801	52G4730		
8mb S4.6 Card	-	52G4731	23F8549	59F4581
16mb S4.6 Card	-	52G4732	68X6271	59F4582
32mb S4.6 Card	-	52G4733	68X6356	70F9973 û
64mb S4.6 Card	-	52G4734	68X6357	70F9976 û
128mb S4.6 Card	-	52G4735	32G8212	43G1796 û
256mb S4.6 Card	88G3680	88G3679		û
		88G3653	64G2074	65G6452 û

FRU	SIMM	
	Marked	Description
59F4581	23F8549, 51F1429, 23F8550	1MB S1/S3/S4
59F4582	68X6271,	2MB S1/S3/S4
70F9973	31F4213, 68X6356, 87F5104	4MB S1.5/S3/S4
59F4583	23F7365, 23F7366	4MB U1
70F9976	68X6357	8MB S1.5/S3/S4
43G1796	32G8212	16MB S3.3/S4
65G6452	64G2074	32MB S4
92F0105	71F7010	4mb 7011-120
64F3606	71F7011	8mb 7011-120
51G8553	74G1234, 51G8557	4mb 7011-220/230
51G8554	74G1235, 51G8558	8mb

Memory Card Type	Fru # Card #	Card Assm #s in MBs	Simmm Upgrade in MBs	EC Level lscfg -v	RS/6000 Models
S1 not compatible with any other mem	59F4433 59F4431	53F3089-8 53F3091-16	N/A	00	320/520/530 730/930/32H 52H
U1 not compatible	59F4436	71F0855-32	N/A	XXXXX	540 only

with any other mem					
S1.5 not compatible with any other mem	81F8926 81F8924	81F8925-32 81F8927-64	N/A	00	320/520/530 730/930/32H

Memory Card Type	Fru # Card #	Card Assm #s in MBs	Simm Upgrade in MBs	EC Level lscfg -v	RS/6000 Models
S3.1	00g2208 00G2205	00G2206-8 00G2209-16 00G2211-32 00G2213-64	32, 64, 128	20	340/350/53H 550/950
S3.2	32G1022 32G0101	32G0102-8 32G0103-16 32G0104-32 32G0105-64	32, 64, 128	20	340/350/53H 550/580/950

Memory Card Type	Fru # Card #	Card Assm #s in MBs	Simm Upgrade in MBs	EC Level lscfg -v	RS/6000 Models
S3.3	32G1866	32G1858-8 32G1859-16 32G1860-32 32G1861-64 43G0591-128	32, 64, 128	21	340/350/355 360/365/370 375/53H/55L 550/560/570 580/950/970 970/98B/980

Memory Card Type	Fru # Card #	Card Assm #s in MBs	Simm Upgrade in MBs	EC Level lscfg -v	RS/6000 Models
S4.5	65G1803	65G1793-8	32, 64,	33	340/350/355/360
	65G1797	65G1799-16 | 128			365/370/375/380
		65G1800-32			390/3AT/3BT/53H
		65G1801-64			55L/550/560/570
		65G1802-128			580/590/58H/59H
					950/970/980/97B
					990/R10/R20/R24
S4.5 256mb Downward compatible except with S1 S1.5 & U1	52G4729		N/A	34	Same as above

Memory Card Type	Fru # Card #	Card Assm #s in MBs	Simm Upgrade in MB	EC Level lscfg -v	RS/6000 Models
S4.6	52G4801	52G4731-8	32, 64,	35	Same as above
	52G4730	52G4732-16	128		
		52G4733-32			
		52G4734-64			
		52G4735-128			
S4.6 256mb Downward compatible except with S1 S1.5 & U1	88G3680 88G3679	88G3653	N/A	54	Same as above

MEMORY SIMM MATRIX

Simm Type	FRU #	Simm P/N	Card Size
1mb	59F4581	23F8549	8mb
2mb	59F4582	68X6271	16mb
4mb	70F9973	68X6356	32mb
8mb	70F9976	68X6357	64mb
16mb	43G1796	32G8212	128mb
32mb	65G6452	64G2074	256mb

MEMORY SIMM KIT & RETURN KIT MATRIX

Simm Kit Memory Size	Memory Upgrade Kit P/N	Return Kit P/N
8mb	N/A	52G4078
16mb	N/A	52G4079
32mb	65G3583	52G4080
64mb	65G3584	52G4081
128mb	65G3585	52G4082

2MB SIMM 68X6127, 68X6327 -- > 92F0104

IBM RS/6000 - Memory EC Level Chart

TEXT: *****
 !!!!!!!!!!!!!!!!!!!!!!! WARNING !!!!!!!!!!!!!!!!!!!!!!!

BE SURE TO CHECK THE ENTIRE CHART BEFORE USING P/N'S AS NEW
 CARDS AND SIMMS HAVE BEEN ADDED....

Mem Card Type	Fru # Card #	Card Assm #s in MBs	Simm Upgrade in MBs	EC Lev lscfg -v	Model #s
S1	59f4433 594431	53f3089-8 53f3091-16	N/A	00	320/520/530 730/930/32h 52h
U1 not compatible with any other mem	59f4436	71f0855-32	N/A	XXXXXX	540 only
S1.5	81f8926 81f8924	81f8925-32 81f8927-64	N/A	00	320/520/530 730/930/32h
S3.1	65g1803 00g2205	00g2206-8 00g2209-16 00g2211-32 00g2213-64	32, 64, 128	20	340/350/53h 550/950
S3.2	65g1803 32g0101	32g0102-8 32g0103-16 32g0104-32 32g0105-64	32, 64, 128	20	340/350/53h 550/580/950
S3.3	65g1803 32g1846	32g1858-8 32g1859-16 32g1860-32 32g1861-64 43g0591-128	32, 64, 128	21	340/350/355 360/365/370 375/53h/55L 550/560/570 580/950/97b

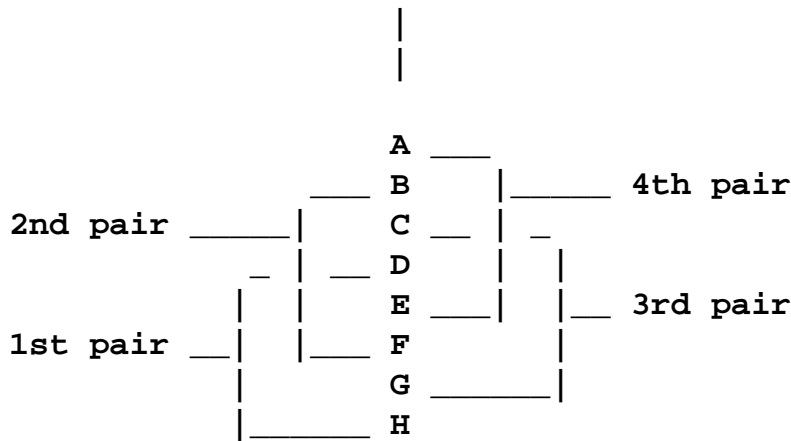
					98b/980
S4.5	65g1803 52g4801 for 256mb see simms below	65g1793-8 65g1799-16 65g1800-32 65g1801-64 65g1802-128	32, 64, 128	33	58h/590/990
S4.5 256mb Downward compatible except with S1, S1.5 & U1	52g4801 for 256mb see simms chart below	52g4729-256	N/A	34	58h/590/990
S4.6 255mb Downward compatible except with S1, S1.5 & U1	52g4729 88g3680 for 256mb see simm chart below	same as S4.5	N/A	34	58h/590/990
S5.0 base card	12h1331	12H1325			
S5.0 info only		12H1326 (32M - Populated Assy number) 12H1327 (64M - Populated Assy number) 12H1328 (128M- Populated Assy number) 12H1329 (256M- Populated Assy number)			

MEMORY Technical Info

Model 52X memory cards are installed singularly in the CPU planar. The storage size of the cards can vary.

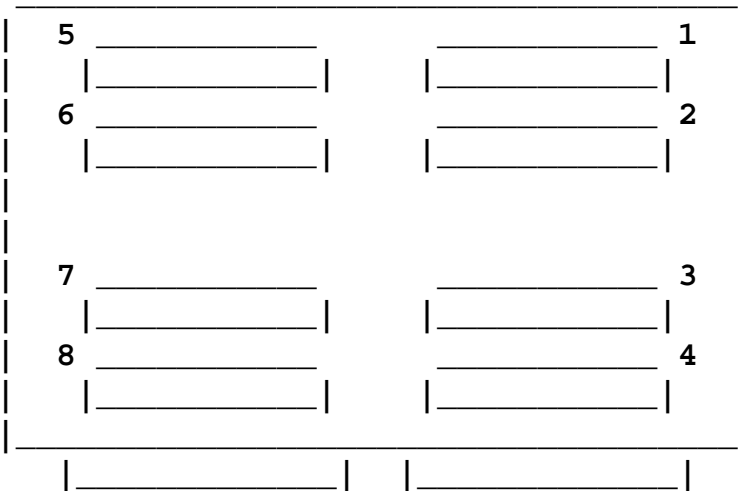
Other 7013 models: the memory cards are installed in pairs. Both of the paired cards must have the same amount of storage(MB). The paired memory cards are installed as follow:

MEMORY CARDS SLOTS in CPU PLANAR

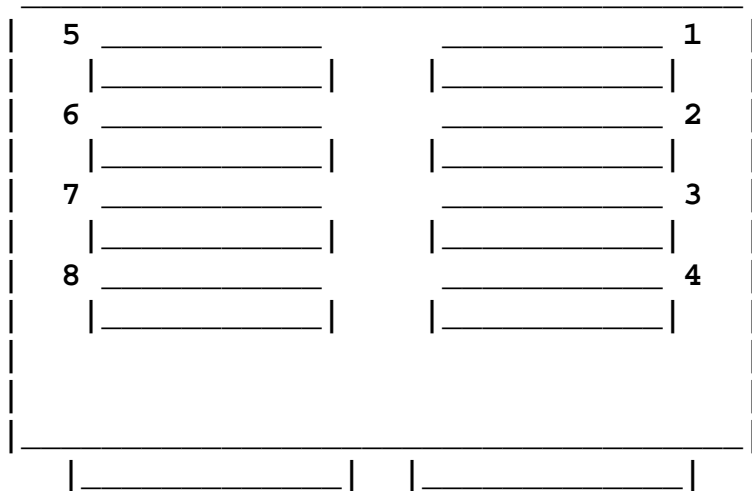


PAIR	SLOT
1st	D and H
2nd	B and F
3rd	C and G
4th	A and E

Memory board SIMM positions are numbered as follows:

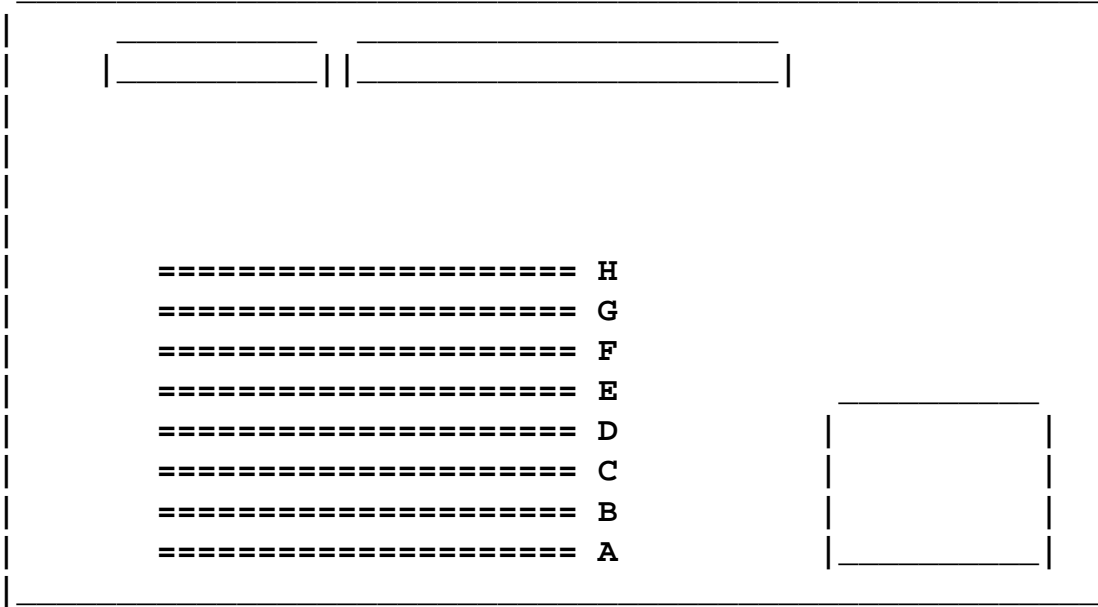


S1 or S1.5 or U1

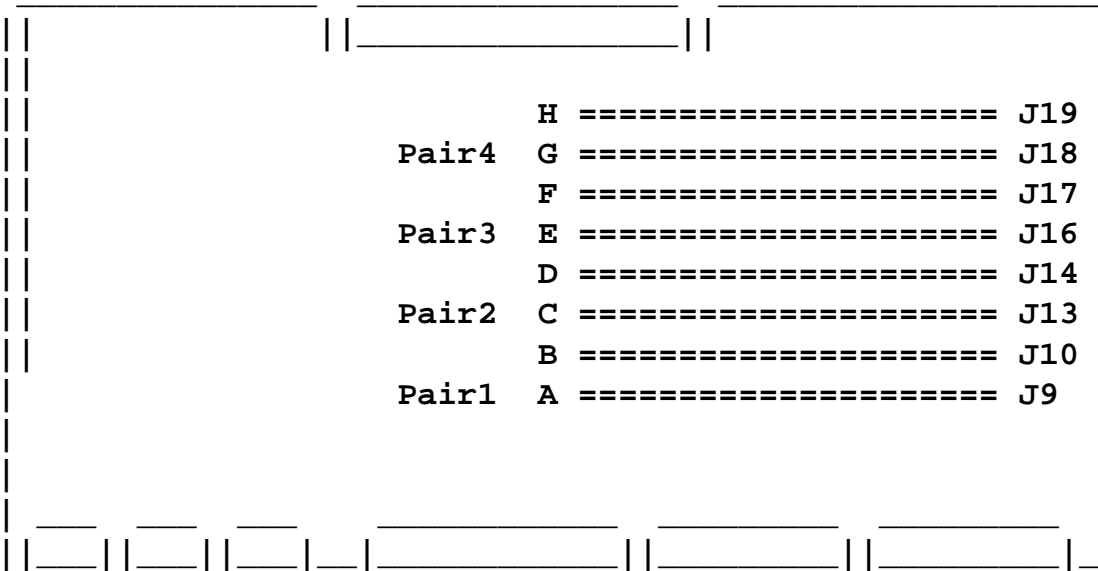


S3.1 or S3.2 or S3.3 or S4.5

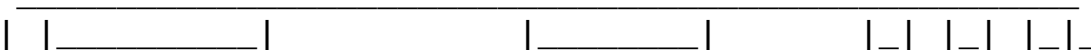
SIMM numbering in 7006

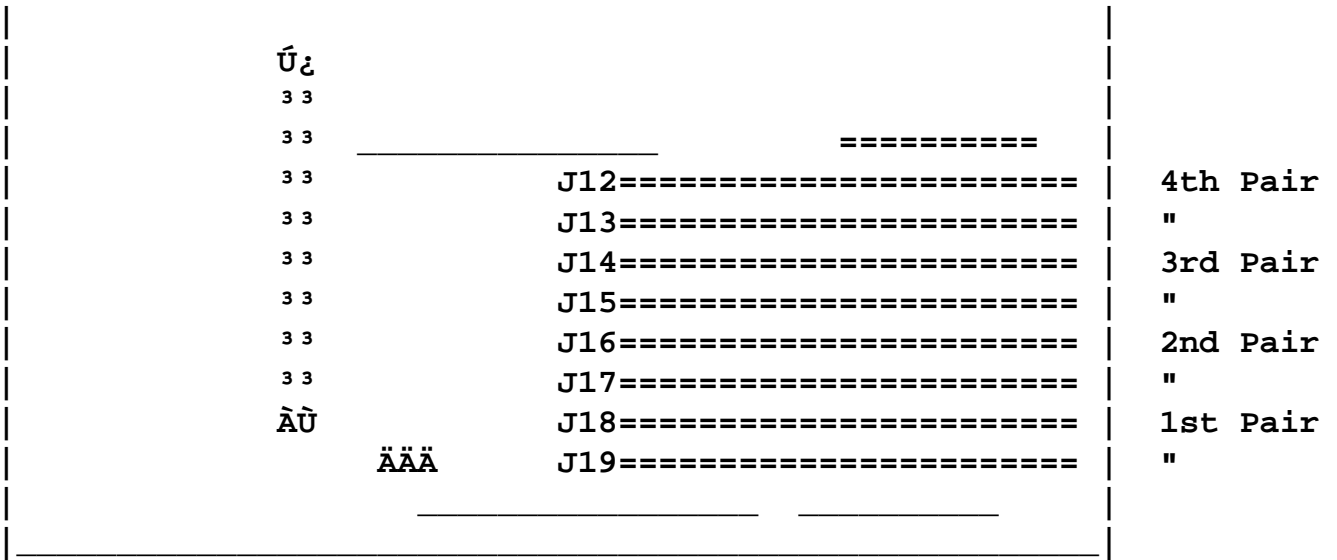


MEMORY in 7008

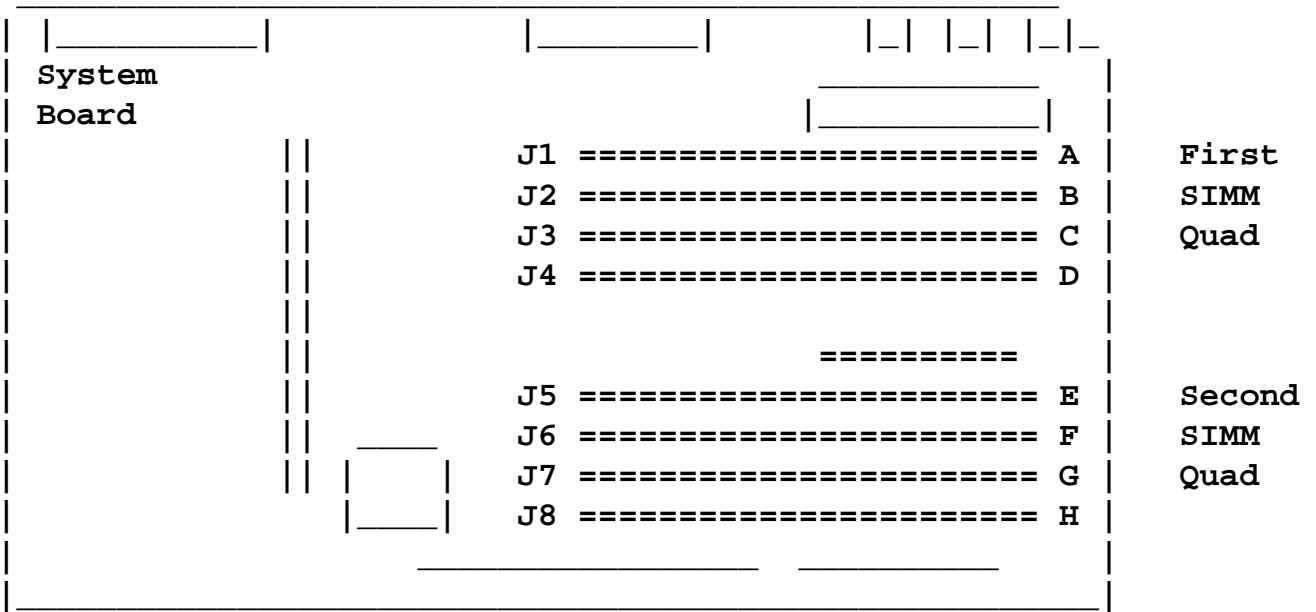


MEMORY in 7011 220/230



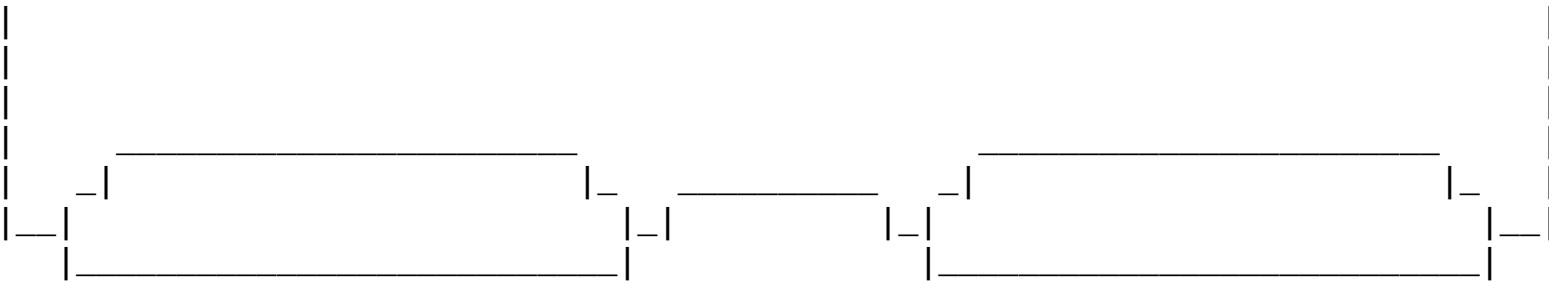


MEMORY in 7011-250

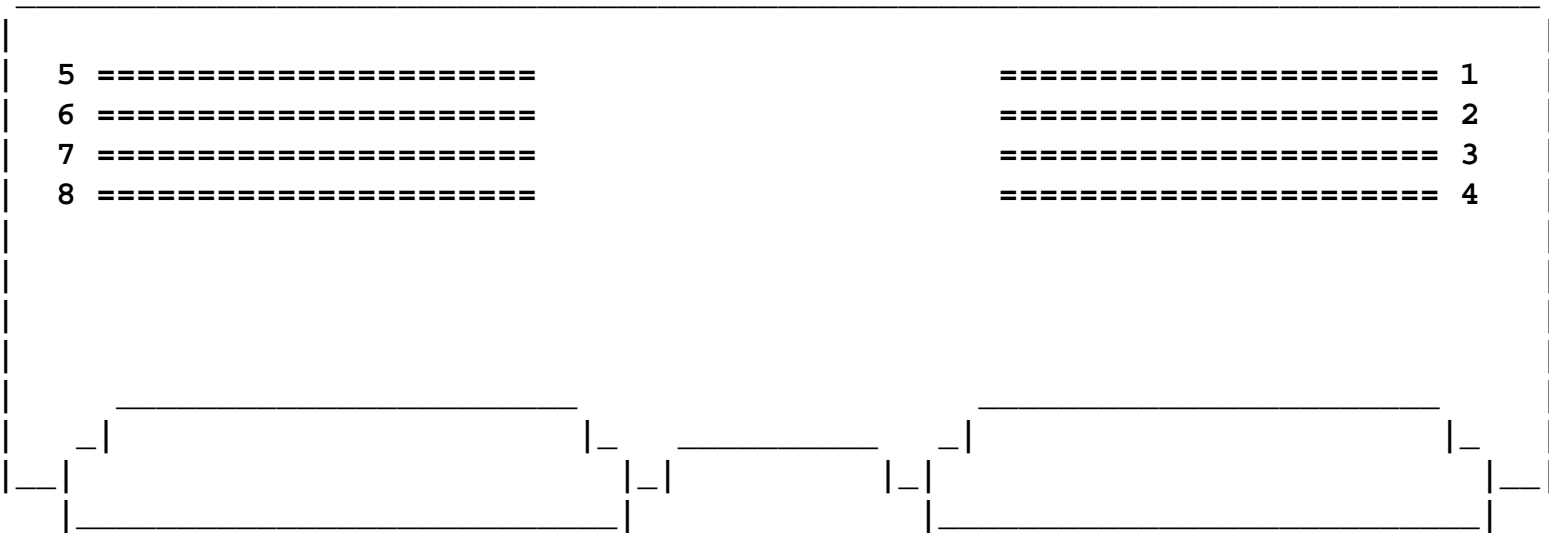


MRE Memory Card (7012 G Series)

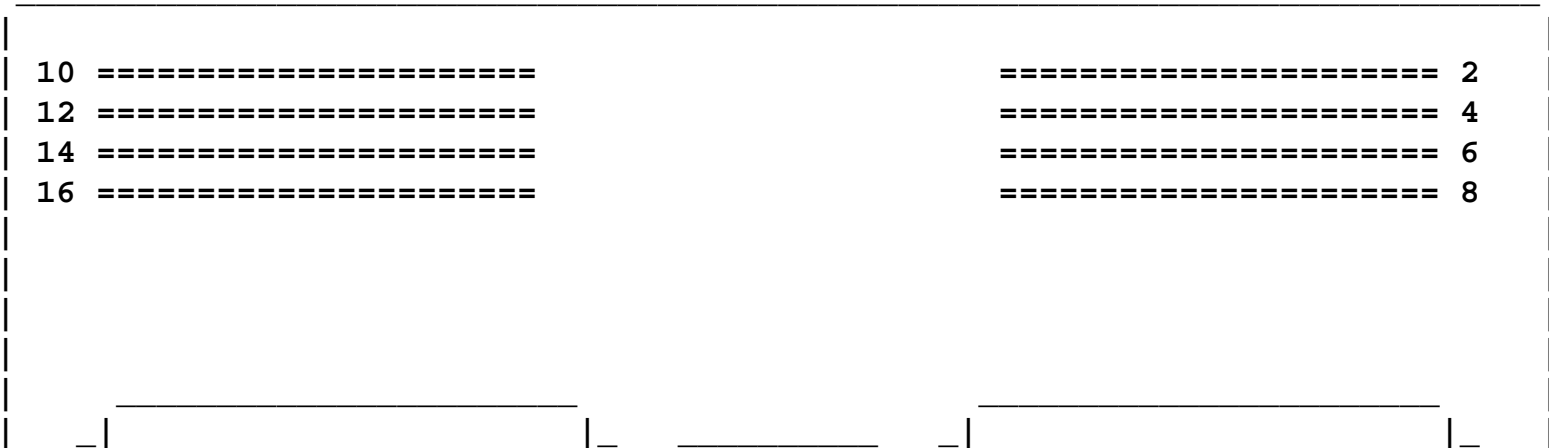




**Base Memory Card (7013 J Series)
and
2 Bank NFX Memory Card**

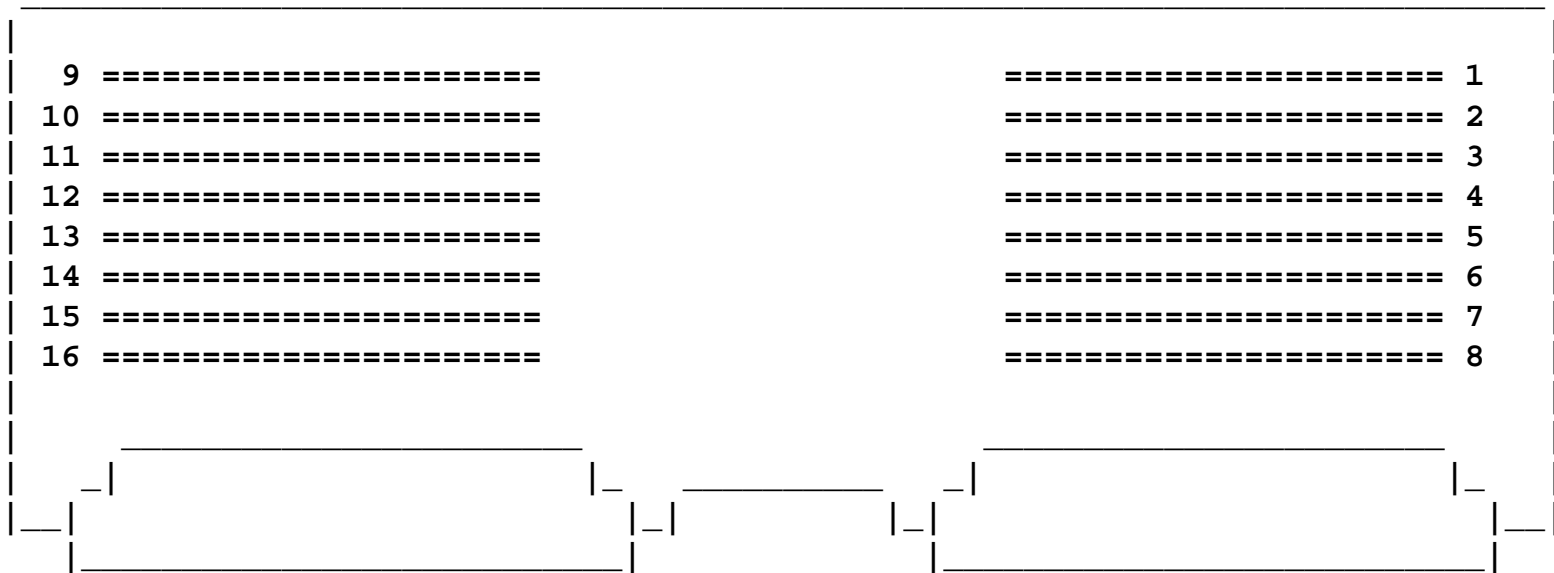


RLX (Two Bank)

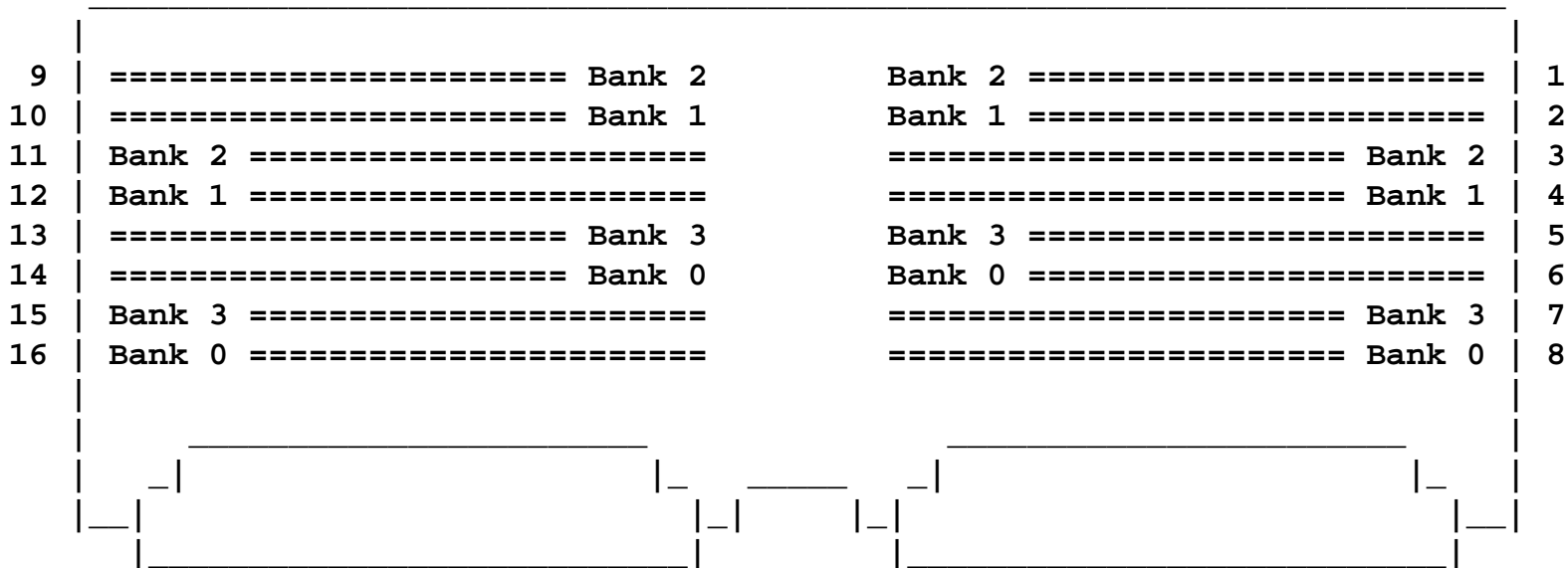




4 Bank NFX Memory Card

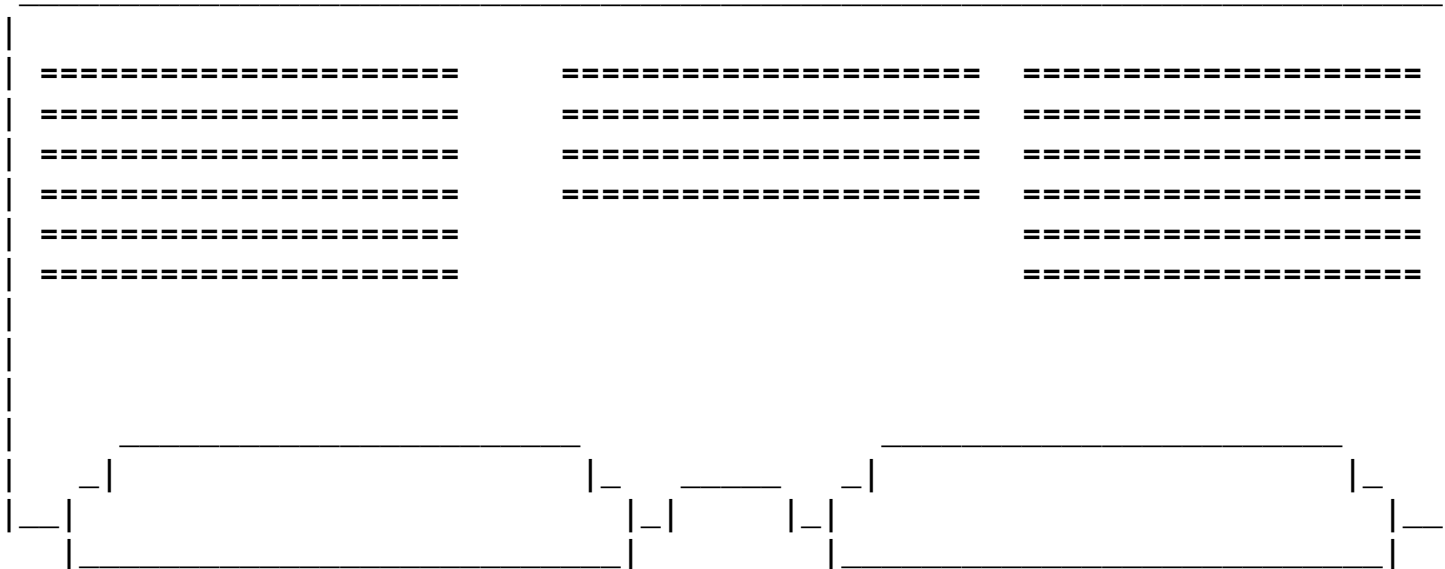


STARFISH SF5 Memory Card (Four Bank)



VPD Example

RTX



Model 990

One pair: slot D & H.

First quad: slot B, D, F & H (must be same size).

Second quad (option): slot A, C, E & G (must be same size)
(may be different size than first quad).

Not supported:

One pair + one quad.

three pairs.

Memory	Voltage	Voltage	DRAM
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Card	Mem Card	SIMM	Spec
8/16mb SD1	5.0-volt	5.0-volt	80-ns 1mbit
32/64mb HD1	5.0-volt	5.0-volt	80-ns 4mbit
32mb HD2	3.6-volt	5.0-volt	80-ns 4mbit
8/16/32/	3.6-volt	5.0-volt	85-ns 2mbit
64/128 HD3	3.6-volt	5.0-volt	80-ns 4mbit
128mb HD3.3	3.6-volt	5.0-volt	60-ns 16mbit
256mb HD4	3.6-volt	5.0-volt	60-ns 16mbit

7011 used 36-bit 5.0-volt 70-ns modules on board.

Base Card

FRU

71F1395	S3.0
00G2208	S3.1
32G1022	S3.2
32G1866	S3.3
65G1803	S4.5
52G4729	S4.5
52G4670	S4.6

S3.0 and S3.1 Supports: 7012-340/350
7013-53H/550/950

S3.2 Supports: 7012-340/350
7013-53H/550/560/950

S3.3 Supports: 7012-340/350/355/360/365/370/375
7013-55L/53H/550/560/570/580
7015-950/970/97B/980/98B

S4.5 Supports: 7012-340/350/355/360/365/370/375/380/390
7013-55L/53H/550/560/570/580/58H/590/59H
7015-950/970/97B/980/98B/990/R10/R20/R24
7030-3AT/3BT/

S4.6 Supports: 7012-340/350/355/360/365/370/375/380/390
7013-55L/53H/550/560/570/580/590/59H

7015-950/970/97B/980/98B/990/R10/R20/R24

Last updated 03/10/98



9076 FRU-MFG P/N CROSS-REFERENCE LIST

- [IBM RS/6000 SP Montpellier France](#)

This page is based on the HARDWARE RETAIN tips H124169 and H17643 by Ed Cwirka. The part in colors contain the latest FRU at the top as opposed to the bottom in the RETAIN tips.

In the not-color section,

"upward compatible" indicates that the p/n of the "latest" p/n (indicated by the *) is upward compatible with the older previous p/n's listed above this one in the file.

USA=A, EMA=A, AFE=A

* = CURRENT LEVEL (IF MULTIPLE P/NS)

#2001 MCA THIN 62MHZ		splstdata -n	
(7012-370)			
62_MHz_PWR1_Thin			
		FRU P/N	MFG P/N
I/O Planar	* 93H7182	93H7183	
	93H4178	11H3466	

#2002 MCA THIN 66MHZ		splstdata -n	
(7012-390)			
66_MHz_PWR2_Thin			
		FRU P/N	MFG P/N
CPU PROCESSOR	* 93H4897	93H4898	
	40h6717	73h1671	
	40H6717	40H6774	
	40H6717	40H6713	
	88G4006	11H7575	
	88G4006	11H3688	

I/O Planar	* 07L9622	07L9623
	93H7059	93H7060
	40H6690	40H6686
	52G4325	11H3497

CPU Planar RPQ	* 93H4055	93H4056	RPQ
with L2 Cache	11H5161	39H9055	RPQ
(NAVAHO)	11H5161	11H5106	RPQ
			8K1952 for newbuild
			8K1961 to MES from 11H5127

#2003 MCA WIDE 66MHZ (7013-590) 66_MHz_PWR2_Wide	splstdata -n
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FRU P/N	MFG P/N
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CPU Planar	* 93H4843	93H4965
	73H4278	73H2613
	11H5127	
	11H5105	39H9003
	11H5105	11H5121

I/O Planar	* 07L6765	07L6766
	93H6967	93H6968
	73H2604	93H5352
	73H2604	73H2605
	43G2211	11H2515
	43G2211	43G2200

#2004 MCA THIN-2 66MHZ (7012-39H) 2	splstdata -n 66_MHz_PWR2_Thin-
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FRU P/N	MFG P/N
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CPU Planar	* 93H4924	93H4920	FC2004
with L2 Cache	93H4924	93H4925	FC2004
	40H2800	93H4920	FC2004
	40H2800	40H2764	FC2004
	40H2800	40H2771	FC2004
	88G3536	65G2138	FC2004
	88G3536	11H7708	FC2004

I/O Planar	Same as #2003 66_MHz_PWR2_Wide
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#2005 MCA WIDE-2 77MHZ (7013-591)	splstdata -n 77_MHz_PWR2_Wide-
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2

FRU P/N	MFG P/N
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CPU Planar	* 93H4880	93H4881	FC2005	
	39H9200	93h1947	FC2005	77MHZ WIDE NODE
	39H9200	39H9196	FC2005	77MHZ WIDE NODE

I/O Planar	Same as 2003 66_MHz_PWR2_Wide
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#2006 MCA HIGH 112MHZ 604 (7015-R40)	splstdata -n 112_MHz_SMP_High
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FRU P/N	MFG P/N
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CPU 604SMP	* 09J4712	95H0027
	19H0317	94H9994

MPB Sysplanar	35H8778	35H8702
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PME IO Planar	* 35H8834	19H0268
GX8PME	19H0238	

SIB Sys Intf	40H7012	40H7082
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Lateral Plane 2	40H7014	11H8416
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Lateral	* 93H7764	93H7763
Plane 1 MPB	40H7013	40H0871

IOD/BIO CARD	* 09J4902	09J4904
	09J4888	09J4882
	09J4875	09J4858
	09J4875	09J4874
	09J4827	09J4826
	09J4760	09J4799
	09J4760	09J4768
	09J4720	09J4725
	35H8682	95H0001

Must use this PN

Note: IOD card must be at level 09.23 for proper operation in 9076 SMP Highnodes. 35H8780 may not be at level 09.23 Contact your next level of support for information

35H8780
19H0246

Power Supply DC	93H6192	93H6190
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#2007 MCA HIGH 135MHZ (7013-595) 135_MHz_P2SC_Wide	splstdata -n
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FRU P/N	MFG P/N
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CPU Planar VANCOUVER	* 11L0332	
	03N3207	03N3206
	41L5941	41L5942
	39H9164	93H4218
	39H9164	93H5656
	94H0445	94H0446
	07L7370	07L7365
	41L5941	41L5942

(EMEA ONLY)

* 31L7123

(EMEA ONLY PN)

I/O Planar	* 93H6519	93H6520
	40H7517	93H3866

#2008 MCA HIGH 120MHZ
(7012-395)
120_MHz_P2SC_Thin

splstdata -n

	FRU P/N	MFG P/N
SYS BOARD	* 07L8549	08L1143
(CPU & I/O)	07L8549	07L8550
	93H8602	93H8603
	93H8593	93H9709
	93H8593	93H9702
	93H8593	93H8644
	93H8593	93H8594
	93H6580	93H6443
	93H2126	93H4446

#2009 MCA HIGH-2 200MHZ 604E
(7015-R50)

splstdata -n
200_MHz_SMP_High-2

	FRU P/N	MFG P/N
CPU 4EG	* 41L6222	41L6221
	* 31L7743	4324
	41L5020	41L5019
CPU X4D	94H1087	08L0375
	08L0784	08L0783
	08L0373	08L0372
	07L8979	07L8978
	07L9397	07L9398
	94H0389	93H9536
	94H0389	93H9535
	94H0389	93H9534
	94H0389	93H7201
NMB Planar	* 19H0261	19H0260
	09J4887	09J4881
	09J4816	09J4765
	09J4816	09J4815
	19H0035	09J4795

PME IO Planar	Same as #2006
SIB Sys Intf	Same as #2006
Lateral Plane1	Same as #2006
Lateral Plane2	Same as #2006
Power Supply DC	Same as #2006

IOD/BIO CARD	* 09J4902	09J4904
	09J4888	09J4882
	09J4875	09J4858
	09J4875	09J4874
	09J4827	09J4826
	09J4760	09J4799
	09J4760	09J4768
	09J4720	09J4725

#2022 MCA THIN 160MHZ UNI (7012-397)	splstdata -n 160_MHz_P2SC_Thin
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FRU P/N	MFG P/N
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CPU	* 11K0375		
	41L6320	41L6309	
	93H5557	93H5556	
	* 31L8518	41L6309	(EMEA ONLY)
	31L7146		(EMEA ONLY)

SILVER THIN

#2050 PCI THIN 332MHZ SMP (7026-H50)	splstdata -n 332_MHz_SMP_Thin
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FRU P/N	MFG P/N
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CPU	* 03N3007	03N3004	
	93H8945	08L1010	
	21L3216	08L1007	
	21L3216	07L9229	
	93H9716	07L9229	
	* 21L3216		EMEA ONLY PN

System Planar	* 07L9718	07L8859
Serv Proc	* 03N3677	03N3676
	08L0442	08L0439
	08L0420	08L0417
	93H4214	07L9193
	93H4214	93H4228
IO Planar	* 41L6138	41L6397
	08L0626	08L0621
	08L0094	08L0073
	93H3344	07L6550
Memomy Base Card	* 03N4173	
	93H2641	
128MB DIMM	93H4702	
CPU Power	11J6523	
Fan MedFRU	11J6513	
Fan Hi FRU	11J6514	
Supervisor Card	* 05N5775	
	11J4000	

SILVER WIDE

#2051 PCI WIDE 332MHZ SMP (7026-H50) 332_MHz_SMP_Wide	splstdata -n
	FRU P/N MFG P/N
CPU	Same as #2050
IO Planar	Same as #2051
Serv Proc	Same as #2051

Expansion Card PCI	* 03N3716 93H3202	03N3715 93H3158
PCI Riser	11K0222 93H3316	93H3303
IO Power	11J6524	

WINTERHAWK I THIN

#2052 PCI THIN 200MHZ SMP (7043-260) Thin	splstdata -n Power3 SMP	
	FRU P/N	MFG P/N
CPU #4342	09P0498 03N2722 03N2403	03N2378
System Planar	08L1303	
I/O Planar	03N2866 07L8240	03N2717
CPU Power	31L7865	
Fan Med	11J6513	
Hi	11J6514	
Sup Card	05N5775 11J4000	11J4000
Pwr/SupCBL	11J5197	
Pla/PwrCBL	21L2887	
2D DASDCBL	08J6105	
Ether CBL	54G2993	

WINTERHAWK I WIDE

#2053 PCI WIDE 200MHZ SMP (7043-260) Wide	splstdata -n Power3 SMP
FRU P/N MFG P/N	
CPU	Same as 2052 Thin
System Planar	Same as 2052 Thin
I/O Planar	Same as 2052 Thin
Card Interposer	46H9165
Control Cable	51H9389
SCSI 4drp Cable	11J5177
2drp Cable	08J6105
Cable IO Exp Ctrl	51H9389
Expansion:	
Planar PCI Exp	07L8531
Power Asm	11J6524
Fan Medium	11J6513
Cable SCSI Jmp	08J6111
Cable Intrposer	51H9386
Cable Power	11J6147

WINTERHAWK II THIN

#2056 PCI THIN 375/450MHZ Power3 SMP (7044-270) 375/450MHz_Power3_Thin	splstdata -n
FRU P/N MFG P/N	
CPU 375MHz 2W	09P0143, 09P0644, 09P0197, 00P2187, 11K0232.
450MHz	09P4478. #4445 2-Way 8MB L2cache
System Planar	09P2053 08L0988

I/O Planar	03N3368
Fan Med	11J6513
Hi	11J6514
Supervisor Card	05N5775
Cables:	
Pla/Pwr	21L2887
2-drop DASD	08J6105
Ethernet	54G2993
TB3MX2 adapter	12K0551
Memory:	
512MB DIMM	07L9758
256MB DIMM	07L9030
128MB DIMM	93H4702
http://w3-3.ibm.com/virus	

WINTERHAWK II WIDE

#2057 PCI THIN 375MHZ Power3 SMP splstdata -n (7044-270) 375/450MHz_Power3_Wide
FRU P/N MFG P/N

NAME /N MFG P/N USAGE COMMENTS

FC 2052/2053 POWER3 (Winterhawk) PARTNUMBERS
Node Austin Parts

FEAT	DESCRIPTION	FRU#	OLD FRU#	MFG PN

332MHZ (SILVER THIN/WIDE)				

FRU PN	MFG PN	FEAT	COMMENTS	

TB3MX Adap	11J5135	FC4022		
	31L7766			

	31L7847			
FanMed FRU	11J6513			

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CPU Node Poughkeepsie Parts      FRU#      OLD FRU#
-----
9076 4023    TB3MX2 Adap      21L3889
9076 4023    TB3MX2 Adap      31L7736    21L3889
*9076 4023    TB3MX2 Adap      31L7874    31L7736
    
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I/O Node Poughkeepsie Parts

MISC Poughkeepsie Parts

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9076 1241    SCSI Jump          08J6111
          * = CURRENT LEVEL ( IF MULTIPLE P/NS )
    
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ADAPTER NAME	FRU P/N	MFG P/N	USAGE	COMMENTS
ETHR T/T RISER	43G0382	52G4737	THIN	THIN NODE ONLY
	* 73H1668	73H1669	THIN	THIN NODE ONLY
HATSCON	65G1828	70X5358	8K1922	RPQ
ETH RISER	00G1276	32G2000	8K1939	RPQ
FCS 1GB OPT	65G5292	21H9695	FC1902	Daughter Card
	* 65G5292	21H9717	FC1902	
FCS 1GB MCA	12H1292	39H9219	FC1904	Daughter Card
FCS 1GB MCA	* 73H2503	73H2499	FC1904	
FCS 1/4 SPEED	40H2555	40H2549	FC1906	
FCS 1/4 SPEED	* 40H2648	40H2647	FC1906	UPWARD COMPATIBLE
Video Card	88G3711	11H5117	FC2404	Ultimedia Video
COMP DECMPU Cd	88G3717	11H5653	FC2405	JPEG Card
PCI SCSI-2 SE	93H8406	???????	FC2408 (FC6208)	FAST/WIDE SE
PCI SCSI-2 IP	93H8407	???????	FC2409 (FC6209)	FAST/WIDE DE
LACE SE	11H4779	11H4780	FC2410	SCSI 2 WD/TN
CORVETTE DE T	52G3380	88G1097	FC2412	SCSI-2 DE TURBO
	52G3380	40H2842	FC2412	SCSI-2 DE TURBO
	* 93H7896	93H7893	FC2412	SCSI-2 DE TURBO
CORVETTE SE	11H3600	71G2589	FC2415	SCSI-2 F/W WD/TN

	* 93H8814	93H8813	FC2415	SCSI-2 F/W WD/TN
CORVETTE DE	11H3599	06H4675	FC2416	SCSI F/W WD/TN
CORVETTE DE	11H7660	06H7274	FC2416	SCSI F/W WD/TN
	11H7660	93H3795	FC2416	SCSI F/W WD/TN
	* 93H8817	93H8815	FC2416	SCSI F/W WD/TN
SCSI I/O	11H2447	11H4821	FC2420	WIDE/THIN
T1 RJ45 CABLE	87H3518		FC2709	
T1 RJ45 WRAP	87H3588		FC2709	
E1 RJ45 CABLE	87H3515		FC2710	
FDDI S/R	65G1879	QTY 5 PN	FC2724	WIDE/THIN
FDDI D/R	43G0856	QTY 6 PN	FC2723	WIDE/THIN
FDDI TWIST	65G1878	58G2585	FC2725	WIDE/THIN
FDDI STP Single Ring Attach Station (FOXCROFT)				
FDDI DUAL	43G0876	33G2759	FC2726	WIDE/THIN
FDDI STP Upgrade to Dual Ring Attach Station (FOXCROFT)				
Sub-Assembly		Assembly		

PN:43G0235/236 are part of PN:43G0240				
PN:56G0294/295 are part of PN:56G0296				
PNs 43G0240 and 56G0296 are FULLY COMPATIBLE.				
HPPI (PROC)	51G9994	43G0118	FC2735	WIDE ONLY
HPPI (RX)	11H2504	11H2498	FC2735	WIDE ONLY
HPPI (TX)	51G9996	43G2023	FC2735	WIDE ONLY
PCI SAS SK-NET	73H3405	73H3404	FC2741	FDDI SAS
PCI DAS SK-NET	73H3401	73H3400	FC2742	FDDI DAS
PCI U-SASSK-NET	73H3413	73H3412	FC2743	FDDI U-SAS SK-NET
PCI ESCON	51H8700	51H8700	FC2751	
ESCON A CHAN	56G0294		FC2754	
ESCON A CHAN	* 56G0296		FC2754	
BMCA PCA	02G7425	02G7418	FC2755	WIDE/THIN
ESCON B CNTRL	92G9895		FC2756	WIDE/THIN
ESCON B CNTRL	* 56G0296		FC2756	
EIA-232 CABLE	87H3405		FC2861	
EIA-232 WRAP	87H3439		FC2861	
RS-449 CABLE	87H3396		FC2862	
RS-449 WRAP PL	87H3440		FC2862	
X.21 CABLE	87H3408		FC2863	

X.21 WRAP PLG	53G0638		FC2863	
V.35 CABLE	87H3399		FC2864	
V.35 WRAP PLG	87H3442		FC2864	
EIA-530 CABLE	87H3402		FC2865	
EIA-530 WRAP	87H3439		FC2865	
DXTA T1 CABLE	87H3793		FC2871	100 OHM
DXTA T1 WRAP	34F0876		FC2871	
DXTA E1 CABLE	54F0740		FC2872	100 OHM
DXTA E1 CABLE	87H3791		FC2873	120 OHM
DXTA E1 CABLE	05F2045		FC2874	120 OHM
DXTA T1 CABLEG	87H3521		FC2875	75 OHM
DXTA E1 CABLE	87H3629		FC2876	75 OHM
DXTA 4-DROPCBL	08L1215		FC2877	4-DROP CABLE
PCI TOKEN RING	94H1038		FC2920	
8P/RS232 SSA	32G1257	51G8518	8K1932	RPQ
8P/RS232 SSA	11H8607	11H8597	8K1932	RPQ
	* 93H5686	11H8597	FC2930	
8P/RS422	52G4757	71F0941	FC2940	8-Port Async Adapt
WAN RS232	93H6541		FC2943	Concentrator 8-PORT
WAN RS232 Terminator	93H6545	93H6544	FC2944	Concentrator 128 PO
	43G0926	???????	FC2944	
PCI ARTIC960Hx	87H3427		FC2947	TYPE 9-R BASE
MEZZANINE	87H3413		FC2947	4-PORT SCALABLE MEZ
8MB MEMORY	87H3621			8MB EDO DRAM
V.24 CABLE	93H5263		FC2951	
V.24 WRAP PLG	33F8985		FC2951	
V.35 CABLE	93H5264		FC2952	
V.35 WRAP PLG	52G3379		FC2952	
V.36 CABLE	93H5265		FC2953	
V.36 WRAP PLG	73H2508		FC2953	
X.21 CABLE	93H5267		FC2954	
X.21 WRAP PLG	40F9904		FC2954	
RS235 X.25	51G9060	44F7137	FC2960	X.25 Interface Co-Processor/2
CI 2-PORT MULT	93H6086	93H5261	FC2962	9-L
	41L5235	41L5233		
WRAP PLUG	93H3662		FC2962	
CI ATM 155 UTP	21H7977	97H6104	FC2963	ATM-ST3 (UTP)

CI 10/100 ETH	94H0823	91H0397	FC2968	
Gigabit ETH (PCI)	07L8916	???????	FC2969	except mod 201,301, 401
MONTEREY	00G2652	93F1277	FC2970	TOKEN RING WD/TN
Auto-Token R LAN Streamer	73H1589 * 86H2123	92G8711 86H2117	FC2972 FC2972	Wide/Thin/High Common FRU
TR 4/16	04H8098	55H8985	FC2979	Token Ring 4/16
ETHERNET	00G3368	00G3369	FC2980	WIDE/THIN
ATM 100	73G9819	10H4538	FC2984	WIDE/THIN
ATM 100	73G9819	42H4176	FC2984	WIDE/THIN
	* 73G9821	42H4176	FC2984	WIDE/THIN
PCI ETHERNET	93H1902	93H1901	FC2985	10BASE2/10BASET
PCI ETHERNET	93H1845	93H1842	FC2986	ETH 10/100BASET
PCI ETHERNET	11H8130	73H3253	FC2987	10BASE5/10BASET
	* 93H7766	93h7765	FC2987	
PCI ATM 155	21H3890	93H4049	FC2988	FIBER OPTIC
ATM 155 OC3	38H6403	38H6502	FC2989	WIDE/THIN/HIGH
	* 72H3043	72H3041	FC2989	MCA Adapter
ETH 10B5/T	39H8817	73H1508	FC2992	ETH 10 Mbps
	39H8817	93H2001	FC2992	
	* 93H4020	93H4016	FC2992	
ETH 10B2	39H8826	73H4634	FC2993	ETH FULL DUPLEX
	39H8826	93H1943	FC2993	
	* 93H4036	93H4032	FC2993	
10/100 ETH SMP	93H8022	93H7888	FC2994	SMP
10/100 ETH SMP*	07L6601	07L6600	FC2994	(min. ship level)
TB3MX Adap	11J5135			
TB3MX SW Adp	31L7766		FC4022	Silver 332MHz Nodes
	* 31L7847		FC4022	Silver 332MHz Nodes
DIAMONDBACK CD	93H6853	93H6852	FC4093	BASE MEM CD
DIAMONDBACK CD*	93H7021	93H7002	FC4093	BASE MEM CD
DIAMONDBACK CD*	21L3875	93H7002	FC4093	(EMEA ONLY PN)

DIMM 128MB10NS*	93H4702	20H1565	FC4110	SP2 FRU
DIMM 128MB10NS*	21L3876	20H1565	FC4110	(EMEA ONLY PN)
ULTIMEDAIA Cd	39H8179	11H7636	FC6202	Ulti. Audio Cd
PCI SCSI-2 SE	93H3809	93H3805	FC6206	ULTRA FAST/WIDE SE
PCI SCSI-2 DE	40H6595	40H6593	FC6207	ULTRA FAST/WIDE DE
PCI SCSI-2 SE	93H8406	???????	FC6208	FAST/WIDE SE
			(FC2408)	
PCI SCSI-2 IP	93H8407	???????	FC6209	FAST/WIDE DE
			(FC2409)	
AL8 HI PERF	65G8122	67G3319	FC6212	HARRIER WD/TN DASD
MAYFLOWER SSA	11H3614	31H8631	FC6214	2-WAY SSA
MAYFLOWER SSA	11H3614	31H8632	FC6214	EMBEDDING 31H8631
MAYFLOWER SSA	11H3614	32H3976	FC6214	
MAYFLOWER SSA	11H3614	84H9732	FC6214	
MAYFLOWER SSA	11H3614	32H3970	FC6214	
MAYFLOWER SSA	11H3614	32H3971	FC6214	
MAYFLOWER SSA *	11H3614	32H3974	FC6214	
PCI SSA RAID 16MB DRAM	09L2061 89H5651		FC6215	SEE ALSO FC6222 CACHE
ENHANCED SSA	40H5707	31H8656	FC6216	8-WAY SSA
	40H5707	32H2318	FC6216	8-WAY SSA
	40H5707	32H3975	FC6216	8-WAY SSA
	40H5707	84H9721	FC6216	8-WAY SSA
	40H5707	89H5667	FC6216	8-WAY SSA
	* 40H5707	96H9882	FC6216	8-WAY SSA
SSA RAID 5 MC			FC6217	TYPE 5 FIELD SPARE
SSA RAID 5 MC	84H9682	84H9678	FC6217	DOES NOT CONTAIN
SSA RAID 5 MC	84H9696	84H9684	FC6217	1MB DRAM
SSA RAID 5 MC *	89H5617	96H9883	FC6217	(W/O 1MB DRAM)
SSA 2-WAY 16MB DRAM	* 84H9706 * 89H5651	89H5644	FC6219 FC6219	FREMONT PLUGS ON FC6219 CD
PCI AND MCA FAST WRITE	(FIELD SPARES DO NOT * 89H5650	74G7719	INCLUDE FC6222	16MB DRAM) OPTION FOR FC6219
PCI AND MCA	(FIELD SPARES DO NOT		INCLUDE	FAST WRITE MODULE)
PCI ARTIC960RXD MEZZANINE	87H3734 09J8829		FC6310 FC6310	BASE 4-PORT SCALABLE MEZ
8PORTM RS422	53F2615	57F2755	FC7006/44	RPQ
8PORTM RS422 *	53F2615	39H8050	FC7006/44	RPQ

6PORTM V.35	72F0164	72F1449	FC7046	RPQ
6PORTM V.35	* 72F0164	39H8060	FC7046	RPQ
PORT X.21	04G5500	04G4590	FC7048	RPQ
PORT X.21	* 04G5500	39H8055	FC7048	RPQ
128PORT ASYNC	52G4894	52G4893	FC8128	RPQ

=====

SLP:

* = CURRENT LEVEL (IF MULTIPLE P/NS)

NAME	FRU P/N	MFG P/N	USUAGE	COMMENTS
1GB SPITFIRE	45G9467	45G9464	FC2555	
1GB STARSPIR	* 86G9049	86G9048	FC2555	8-BIT SE
2GB ALLICAT	86F0118	86F0101	FC2580	
2GB STARALLI	* 86G9099	86G9098	FC2580	8-BIT SE
4.5GB DASD	40H3672	03L5256	FC2900	ULTRA SCSI, ALL
4.5GB DRACO	* 83H7105	03L5256	FC2900	MODELS EXCEPT R40
	83H7105		FC2904	SMP HIGHNODES
9.1GB DASD	59H6926	59H6816	FC2908	SAILFIN(ALSO FC2909
18.2GB DASD	59H6923		FC2918	(ALSO FC3046)
4.5GB SCORPION	93G2970*	93G2854	FC3000	FAST/WIDE
4.5GB SCORPION	76H2697*	93G3159	FC3000	FAST/WIDE
9.1GB SCORPION	93G2972	93G2863	FC3010	FAST/WIDE
9.1GB SCORPION*	76H2698	93G3160	FC3010	FAST/WIDE
2.2GB DASD	74G6996	74G6976	FC3031	604 SMP HIGHNODE
1.1GB STARFIRE	74G7006	74G6983	FC3032	SCSI SE
2.2GB STARFIRE	74G7007	74G6984	FC3033	SCSI SE
NOTE: SEE RETAIN TIP H161786 IF INSTALLING				IN 604 R40 HIGHNODE
4.5GB STARFIRE	74G7008	74G6985	FC3034	SCSI SE
9.1GB SCORPION	93G2972	93G2863	FC3010	SCSI SE

NOTE: SPITFIRE AND ALLICAT ARE FAST UNITS
STARFIRE ARE FAST/WIDE UNITS
SCORPION ARE FAST/WIDE UNITS

9.1GB SAILFIN | 59H6926 | 59H6816 | FC2908 | ALL MODELS EXCEPT
R40 604 HIGHNODES

LOGIC PARTS:

=====

NAME	P/N	USUAGE	COMMENTS
SUPER BUS	67G4989	THIN	
LED DISPLAY	67G4985	TN/WD	
SWITCH 2.0 ASM	46G5632		SWITCH ASSM HPS TYPE 2.0
SWITCH LC ASM	17H5075	FC4007	COMPLETE ASM HPS TYPE 3.0 8-PORT
SWITCH SPS LC8	46H9679	FC4008	INNER CHASSIS ASSM SPS 8-PORT
SWITCH CLOCK	67G4993	FC4010	NOT USED ON LOW COST
NOTE: PART OF SWITCH 3.0			
SWITCH 3.0 ASM	46G5670	FC4010	COMPLETE ASM
SWITCH 3.0 ASM*	17H5074	FC4010	16-PORT TYPE HPS 3.0
SWITCH ASM	46H9327	FC4011	SPS INNER CHASSIS ASSM
FR SUPERV SPBU	17H5419	FRAME	4 LED FRAME SUPER
NOTE: HPS AND FRAME W/O SWITCH			
FR SUPERV SPBU	26H7326	FC1245	HACWS FEATURE
FR SUPERV SPBU	26H7323	FC1245	HACWS FEATURE
NOTE: 26H7326 IS PART OF 26H7323			
FR SUPERV SPBU	46H9732	FC1245	SPS INTERIM P/N
FR SUPERV SPBU	46H9308	FC1245	HACWS/SPS
NOTE: HACWS, SPS		4008/4011	FULLY COMPATIBLE
NOTE: THIS CARD WORKS ONLY WITH AIX 4.1			
FR SUPERV SPBU	46H9738	1245/2006	HACWS/SPS/604SMP
NOTE: MICROCODE ONLY CHAN4008/4011			
FR SUPERV SPBU	11J4000	8-LED	HACWS/SPS/HIGH/332MHZ
	* 05N5775		
NODE SUPERV	89G2325	WIDE	
NODE SUPERV	26H7092	WIDE	
NODE SUPERV	* 38H9698	WIDE	
NODE SUPERV	89G2328	THIN	ONEIDA
NODE SUPERV	26H7085	THIN	ONEIDA, UPWARD COMP.
NODE SUPERV	08J5852	THIN	UPWARD COMP. TARA PB
NODE SUPERV	46H9831	THIN	INTERIM FOR HALIFAX
NODE SUPERV	08J5859	THIN	MSL 120MHZ (EPROM)
NODE SUPERV	* 46H9834	THIN	UPWARD COMPATIBLE
			ALL THIN NODES

TB2	89G2365	FC4018	3.0 SWITCH ADAPTER CARD
TB2	* 17H5426	FC4018	
TB3 ADAPTER	* 26H7241	FC4008	SPS SWITCH APADTER CARD
TB3 ADAPTER	* 26H7241	FC4011	
TB3 ADAPTER	* 26H7241	FC4020	
TB3MX CARD	11J5135	FC4022	332MHZ SILVER SW ADAPTER CD
TB3MX CARD	31L7766	FC4022	
TB3MX CARD	* 31L7847	FC4022	
TB3MX2 CARD	21L3889	FC4023	POWER3 WINTERHAWK
TB3MX2 CARD	31L7736	FC4023	
TB3MX2 CARD	* 31L7874	FC4023	
SWITCH SUPERV	89G2313	4007/4010	HPS
NOTE: PART OF HPS SWITCH			
SWITCH SUPERV	17H5088	4008/4011	SPS
SWITCH SUPERV	46H9305	4008/4011	SPS
SWITCH SUPERV	* 46H9835	4008/4011	UPWARD COMPATIBLE
NOTE: PART OF SPS SWITCH ASM			
CARD INTERPOS	77G0938	FC2004	THIN-2 NODE
CARD INTERPOS	50H4730	4008/4011	SPS SW ASM
NOTE: PART OF SPS SWITCH ASM			
POWER SUPPLIES:			
NAME	P/N	USAGE	COMMENTS
SEPBU PWR	77G0906	FRAME	AVEX. QTY 3
SEPBU PWR	07H6409	FRAME	
SEPBU PWR	* 21L2906	FRAME	
5KW PWR BOOK	08J6186	49" FRAME	MODEL 500 ONLY
	* 21L3138	49" FRAME	MODEL 500 ONLY
SEPBU PWR	77G0909	FRAME	AVEX. QTY 1
SEPBU PCI CARD	77G0919	FRAME	AVEX. QTY 1
SEPBU PWR CARD	77G0921	FRAME	AVEX. QTY 1
WIDE NODE PWR	77G0959	WIDE	
WIDE NODE PWR	07H6410	WIDE	
SWITCH PWR	77G0951	SWITCH	QTY 1 HPS 3.0 & LC
SWITCH PWR	77G9061	SWITCH	QTY 1 SPS

NOTE: PART OF SPS SWITCH ASM

NOTE: FC1212 (N+1) POWERRES STAND ALONE POWER.

TARA PWR CARD	77G0936	THIN	QTY 1 HURON ONLY
TARA PWR CARD	51H9437	THIN	UPWARD COMPATIBLE
TARA PWR CARD *	46H9799	THIN	FULLY COMPATIBLE
SWITCH PWR	67G4994	SWITCH	QTY 1 HPS 2.0 ONLY
135MHZ VOLTREG	40H7442	WIDE	VOLTAGE REG MFG PN 73H4336
135MHZ PWR CRD	46H9703	WIDE	GA 96/11/15
120MHZ PWR CRD	46H9302	THIN	GA 96/11/15
128P PS	88G2749	SC8134	RPQ
128P PS *	40H3611	SC8134	RPQ

MECHANICAL PARTS:

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FAN	00G2891	TN/SWITCH	ALL THIN & SWITCH
FAN	26H7395	SWITCH	SPS
NOTE: PART OF SPS SWITCH ASM			
FAN	40F9979	THIN	EXCEPT HURON/120MHZ THIN62
FAN 5" REAR	26H7220	THIN	THIN-2 / 120MHZ
FAN 5" FRONT	54G2906	THIN	THIN-2 & 62MHZ
FAN CPU	42F7434	WIDE	
FAN PWR	52G1418	WIDE	
FAN MEMORY	54G3291	WIDE	
FAN 92MM	46H9770	THIN	120MHZ ONLY

RAVEN

TB3PCI CARD	08L0398		
	* 31L7741		



RSINFO/6000

9076 SP Menu

RS/6000 SP Processor node Equivalent
Uniprocessor Thin Nodes

Adapters

Uniprocessor Wide Nodes

High Nodes MCA

SMP Nodes

SP-Attached	7017-S70/S7A/S80			
POWER3 SMP Thin 2052	7043-260	200MHz	PCI	Winterhawk I
POWER3 SMP Wide 2053	7043-260	200MHz	PCI	Winterhawk I

POWER3-II SMP Thin 2056		375MHz	PCI	Winterhawk II
POWER3-II SMP Wide 2057		375MHz	PCI	Winterhawk II
(2 or 4-way - Integrated 100Mbps Ethernet - Integrated UltraSCSI)				
(Minimum 4.3.3 + IY06844 - PSSP 3.1.1)				

POWER3 SMP High	No equivalent.	222MHz	PCI	Nighthawk
CPU: 2-way or 4-way - 64-bit				
CDN Ann letter: A00-0064				

JUNE 05 2000

n	9076	Proc BUS	Equivalent	RS/6000	Feature #	uname -M	splstdata -
*	Node	type	Type/Model	Plant Alias	(or -m)		
			Ann Letter	Min AIX	Min PSSP		
Thin							
	62MHz	UNI MCA	7012-370		THN1 2001	75	
	62_MHz_PWR1_Thin						
	66MHz	UNI MCA	7012-390		THN2 2002	57	
	66_MHz_PWR2_Thin						
	66MHz	UNI MCA	7012-39H		THN3 2004	59	
	66_MHz_PWR2_Thin-2						
	120MHz	UNI MCA	7012-395(R24)		THN5 2008	81	
	120_MHz_P2SC_Thin						
	160MHz	UNI MCA	7012-397		THN6 2022	94	
	160_MHz_P2SC_Thin						
	332Mhz	MUL PCI	7026-H50	(Wildcat) Silver	THN7 2050	IBM,9076-WCN	
	332_MHz_SMP_Thin						
	Power3	SMP PCI	7043-260	200MHz Winterhawk	WHK THN8 2052	IBM,9076-260	
	Power3_SMP_Thin						
	Power3	SMP PCI	7044-270	375MHz Winterhawk2	WHK2 THN9 2056	IBM,9076-270	
	375MHz_POWER3_SMP_Thin		A00-0064	4330-02 3.1.1			
			450MHz	Winterhawk2			
	375/450MHz_POWER3_SMP_Thin		(If APAR IY28091 PSSP3.2 installed)				
Wide							
	66MHz	MCA	7013 Model 590		WDE1 2003	70	
	66_MHz_PWR2_Wide						
	77MHz	MCA	7013 Model 591		WDE2 2005	79	
	77_MHz_PWR2_Wide-2						
	135MHz	MCA	7013 Model 595		WDE3 2007	89	
	135_MHz_P2SC_Wide						
	332Mhz	SMP PCI	7026 Model H50	Silver	WDE4 2051	IBM,9076-WCN	
	332_MHz_SMP_Wide		A98-0409				
	Power3	SMP PCI	7043-260	200MHz Winterhawk	WDE5 2053	IBM,9076-260	Power3_SMP_Wide
	Power3	SMP PCI	7043-270	375MHz Winterhawk2	WDE6 2057	IBM,9076-270	
	375Mhz_Power3_Wide		A00-0064	4330-02 3.1.1 + IY11093			
			450MHz	Winterhawk2			
	375/450MHz_POWER3_SMP_Thin		(If APAR IY28091 PSSP3.2 installed)				
High							
	604	SMP MCA	7015 Model R40		SMP1 2006	A4	
	112_MHz_SMP_High						
	604E	SMP MCA	7015 Model R50		SMP2 2009	A5	
	200_MHz_SMP_High-2						
	Power3	SMP	222MHz	Nighthawk	2054	IBM,9076-N80	
	POWER3_SMP_High		Withdraw 31 dec 2000				
	Power3	SMP	375MHz	Nighthawk2	2058	IBM,9076-N81	
	375_MHz_POWER3_SMP_High		A00-1083	Note 1 Note 1			

Expansion I/O Unit

RIO 2055

Note

'uname -m' is for MCA bus nodes .

'uname -M' is for PCI bus nodes .

Minimum AIX and PSSP

Note 1: 375 MHz POWER3 SMP High Node (Nighthawk II)

AIX 4.3.3 with the 4330-02 Recommended Maintenance package, or later, with IBM Parallel System Support

Programs for AIX (PSSP) Version 3.1.1 plus APAR IY11093. If the SMP node is attached to an SP Switch, and is

configured with greater than 32 GB of memory, AIX APAR IY11868 and PSSP APAR IY11425 are also required.

AIX 4.3.3 with the 4330-02 Recommended Maintenance package, or later, with PSSP Version 3.2. If the SMP

node is attached to an SP Switch, and is configured with greater than 32 GB of memory, AIX APAR IY11868 and

PSSP APAR IY11426 are also required.

May 31 2002



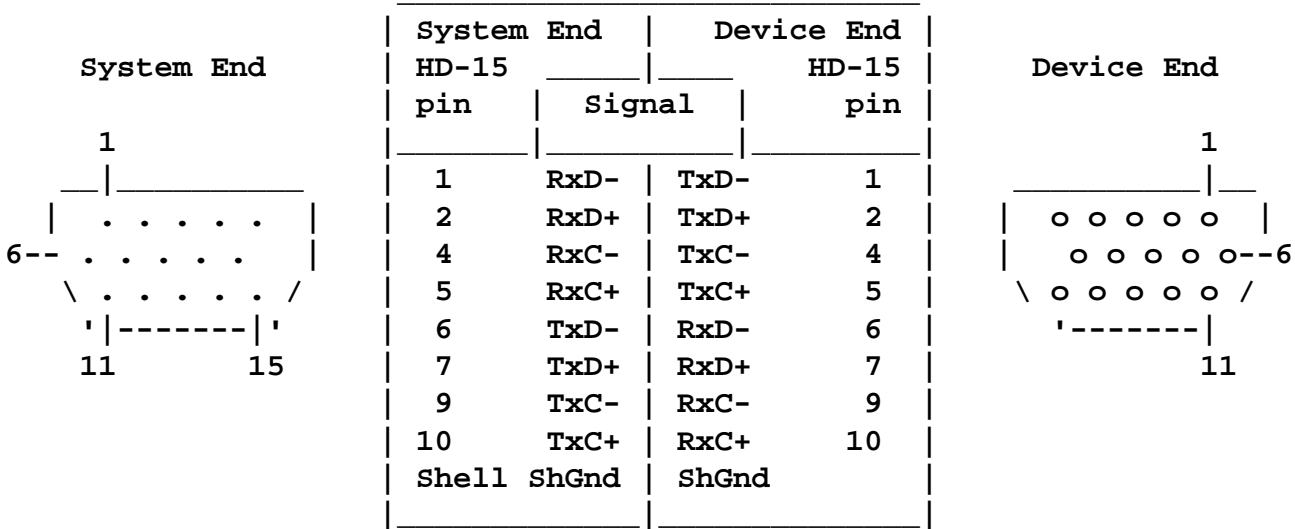
RSINFO/6000



Cable NB/NC - 128-Port Async Controller Cable 8-wires

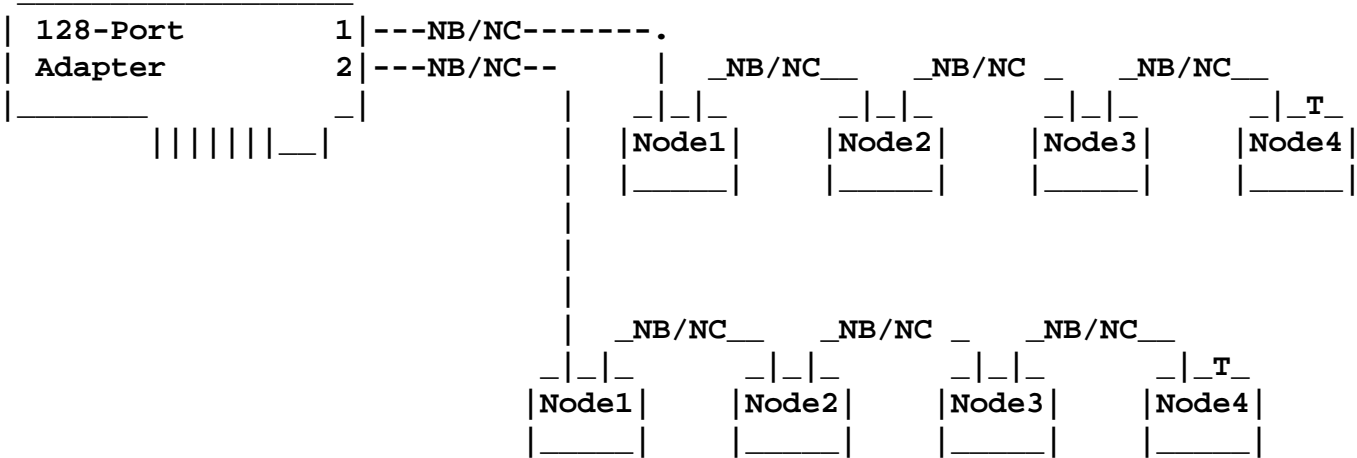
NB P/N43G0937 15ft

NC P/N43G0936 0.75ft



<=1000ft 28 AWG - max16pF/f - type Belden 9806 or equivalent

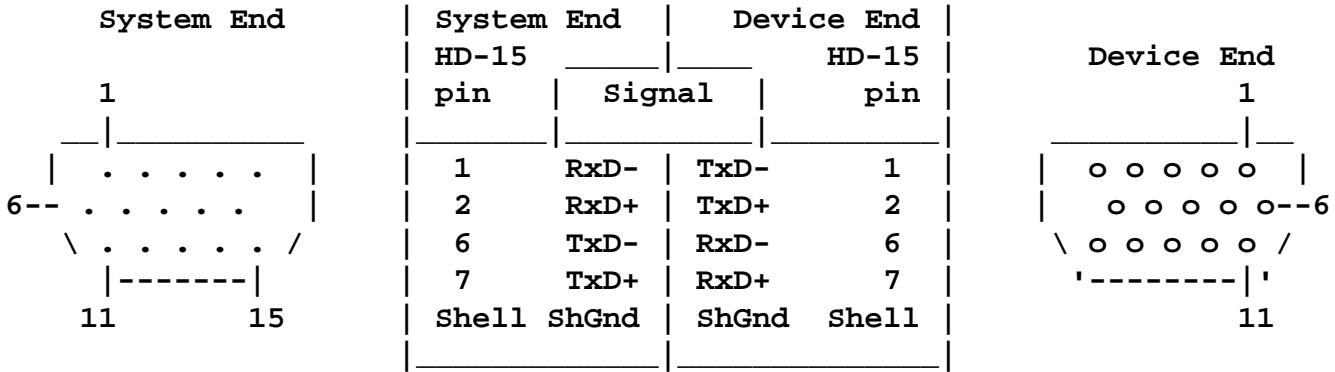
>1000ft 24 AWG - max16pF/f - type Belden 9831 or equivalent



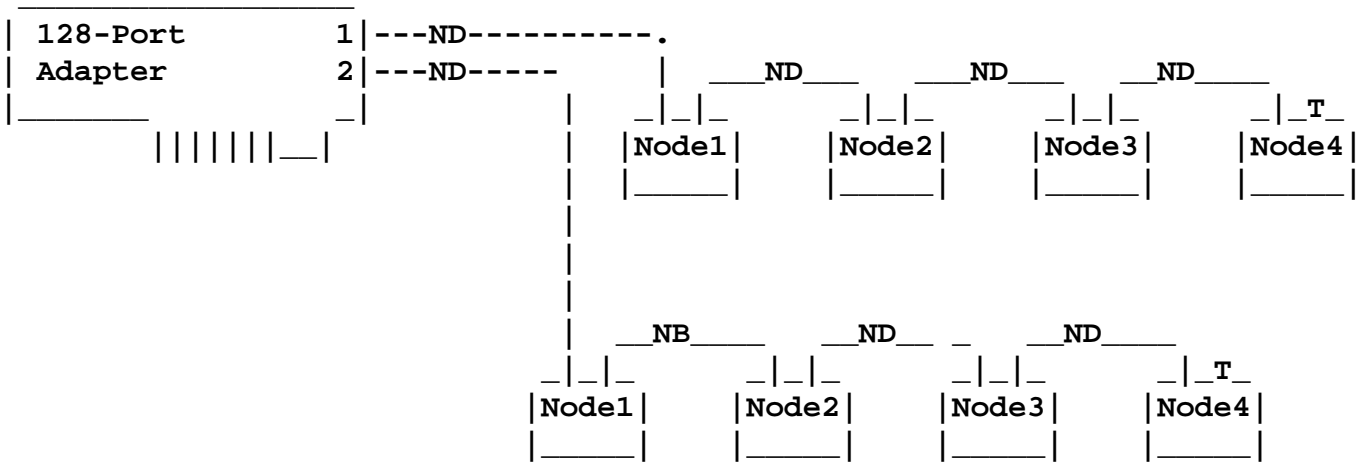
Cable ND 128-Port Async Controller Cable 4-wires

There is no IBM P/N for this cable

This is customer supplied



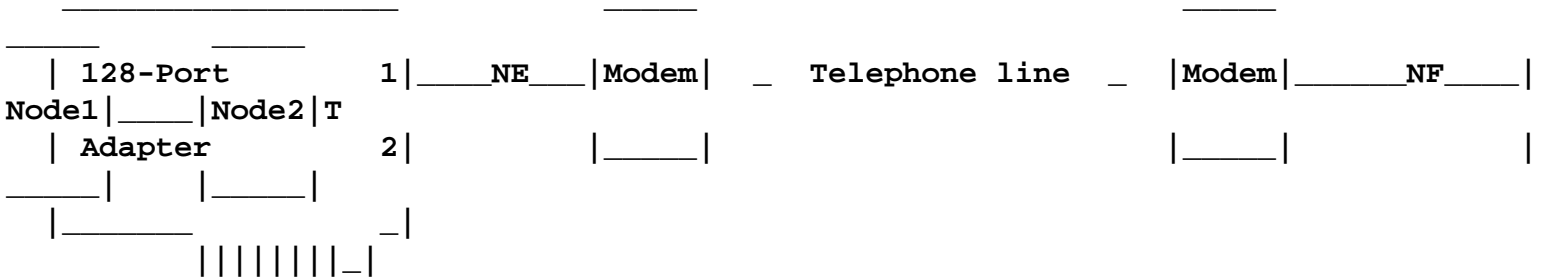
<=1000ft 28 AWG - max16pF/f - type Belden 9804 or equivalent
 >1000ft 24 AWG - max16pF/f - type Belden 9829 or equivalent



Cable NE - Controller-to-Modem

&

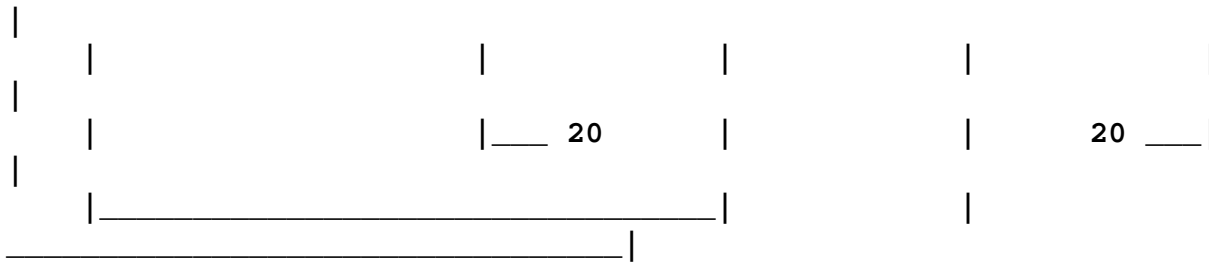
Cable NF - Modem-to-RAN



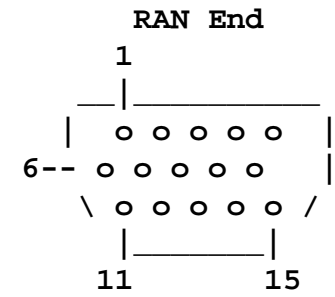
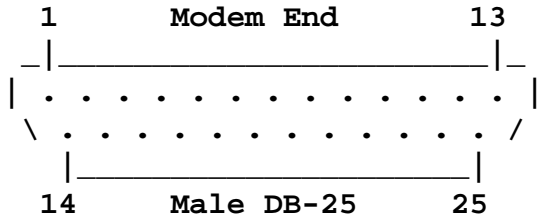
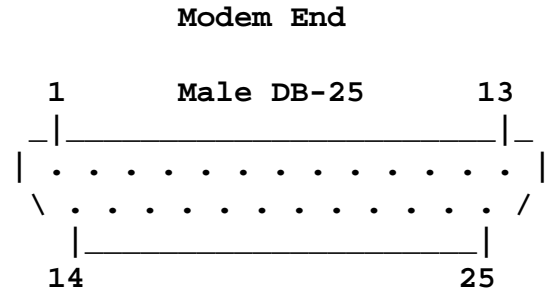
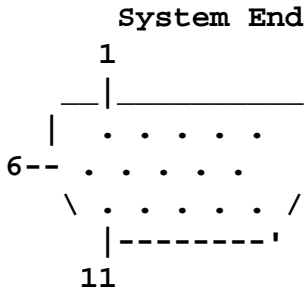
CABLE NE

CABLE NF

System End	Modem End	Modem End	Ran End
HD-15 Male	DB-25 Male	DB-25 Male	HD-15 Female
Signal	Signal	Signal	Signal
<hr/>			
RxD 1	3 RxD	RxD 3	6 RxD
RxC 4	17 RxC	RxC 17	9 RxC
	*		*
5			10
TxD 6	2 TxD	TxD 2	1 TxD
TxC 9	15 TxC	TxC 15	4 TxC
	*		*
10			5
SG 12	7 SG	SG 7	12 SG
FGND Shell	Shell,1 FGND	FGND Shell,1	Shell FGND
	4	4	
* 2200pf Capacitor	6	6	



* = 2200pf Capacitor

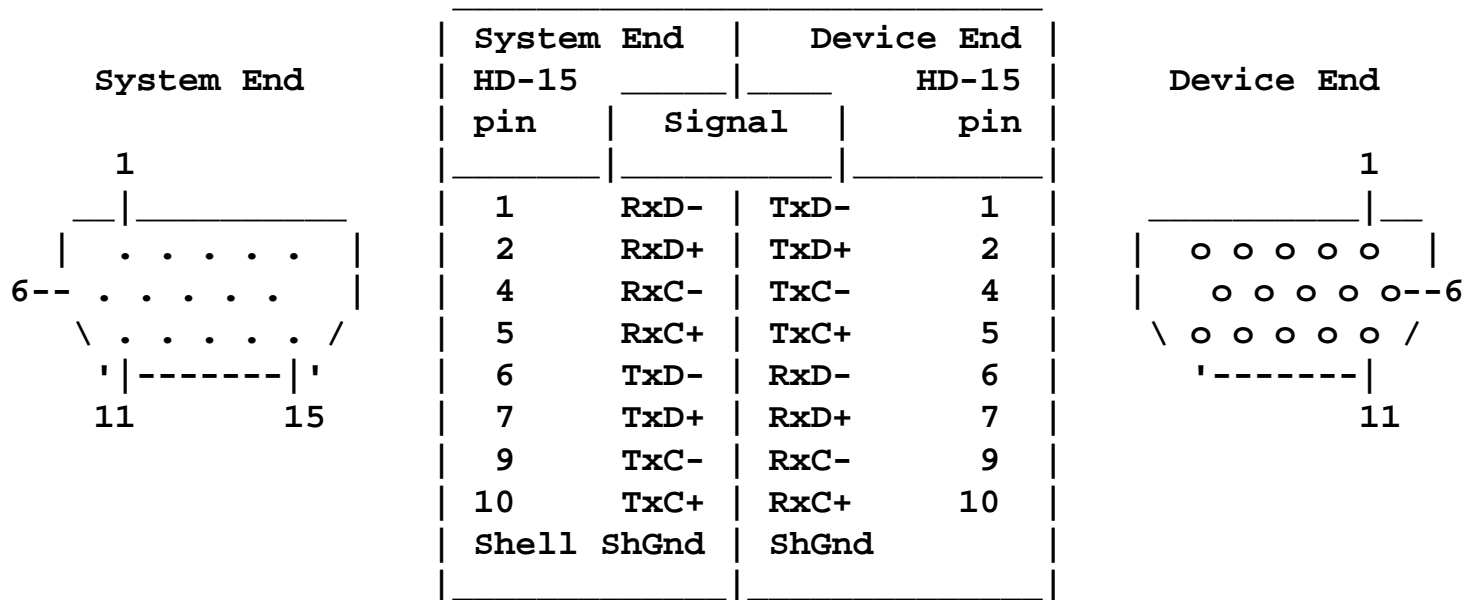


Up to 100ft - 24 AWG - max12.5pF/f - type Belden 9929 or equivalent
 Controller line baud rates of 19.2 Kbps or less recommended.

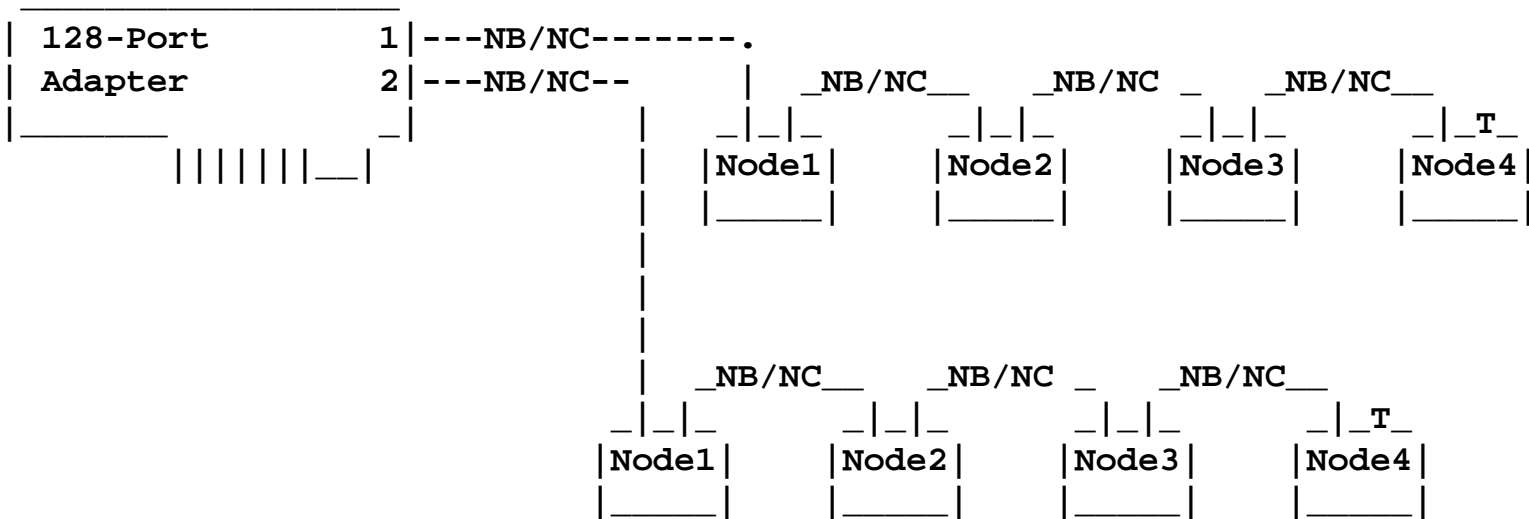
Cable NB/NC - 128-Port Async Controller Cable 8-wires

NB P/N43G0937 15ft

NC P/N43G0936 0.75ft



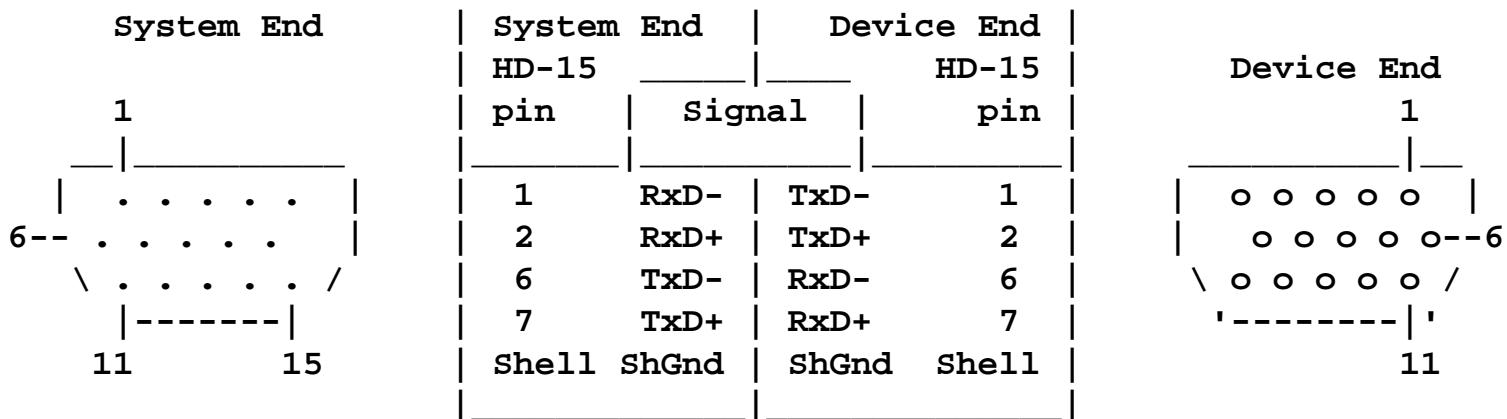
<=1000ft 28 AWG - max16pF/f - type Belden 9806 or equivalent
 >1000ft 24 AWG - max16pF/f - type Belden 9831 or equivalent



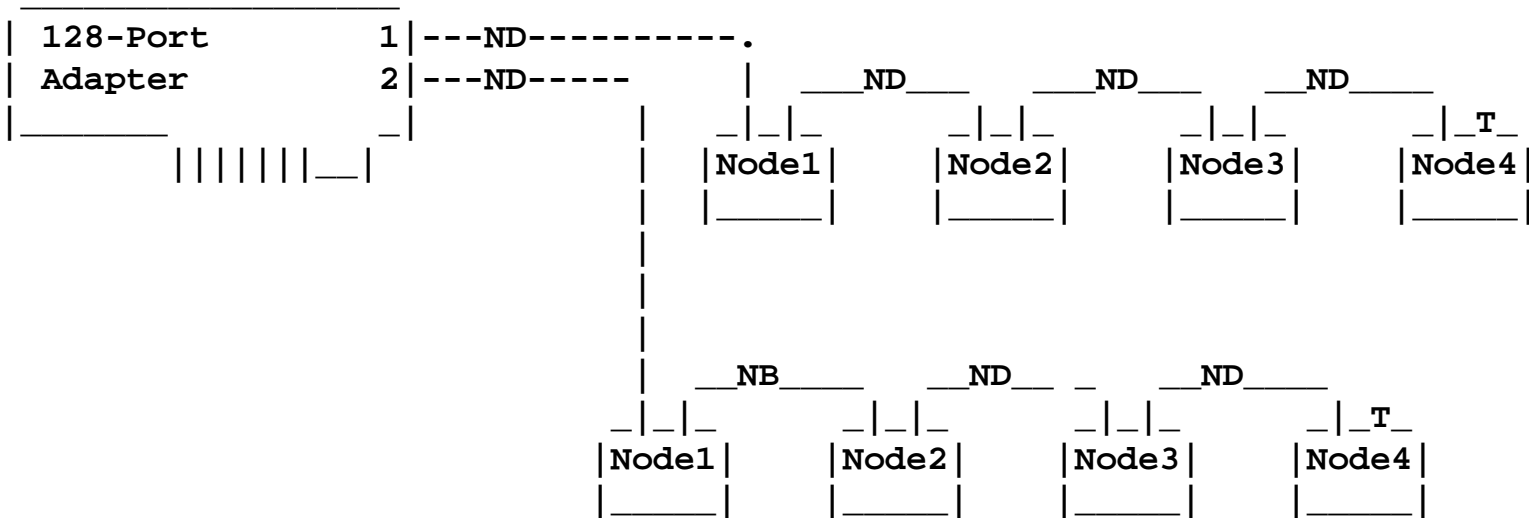
Cable ND 128-Port Async Controller Cable 4-wires

There is no IBM P/N for this cable

This is customer supplied

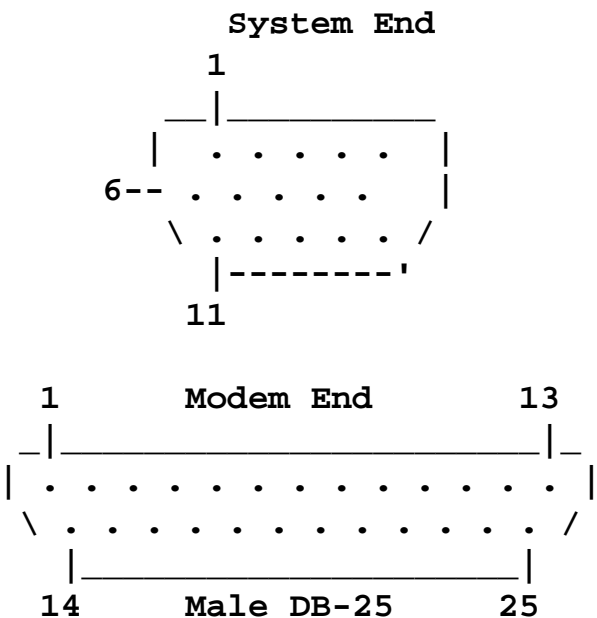


<=1000ft 28 AWG - max16pF/f - type Belden 9804 or equivalent
 >1000ft 24 AWG - max16pF/f - type Belden 9829 or equivalent



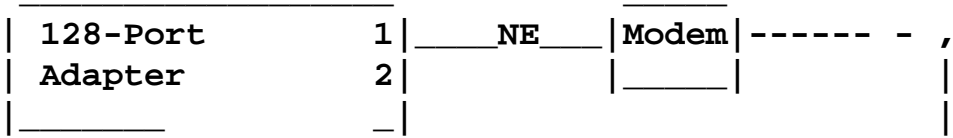
Cable NE

EIA-232 Modem Cable, System 128-Port Async Controller Cable

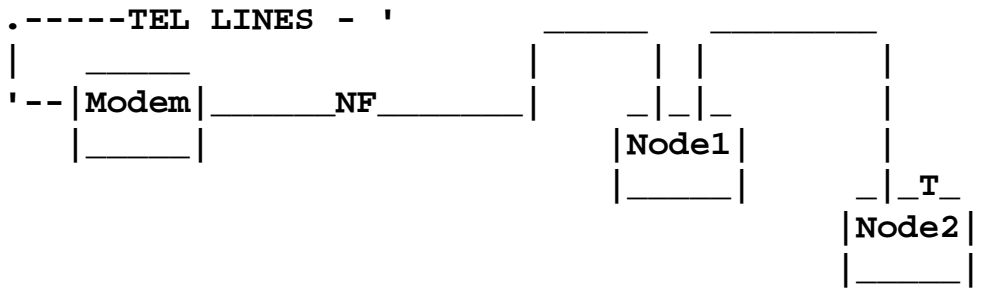


	System End HD-15 Male Signal	Modem End DB-25 Male Signal
RxD	1	3 RxD
RxC	4	17 RxC
	5	*
TxD	6	2 TxD
TxC	9	15 TxC
	10	*
SG	12	7 SG
FGND	Shell	Shell,1 FGND
		4
		6
		20

Up to 100ft - 24 AWG - max12.5pF/ft - type Belden 9929 or equivalent
Controller line baud rates of 19.2 Kbps or less recommended.

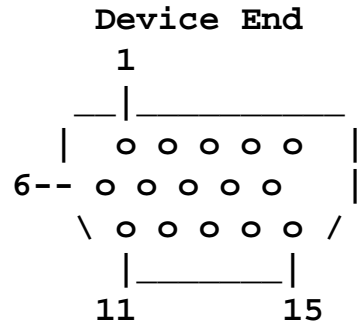
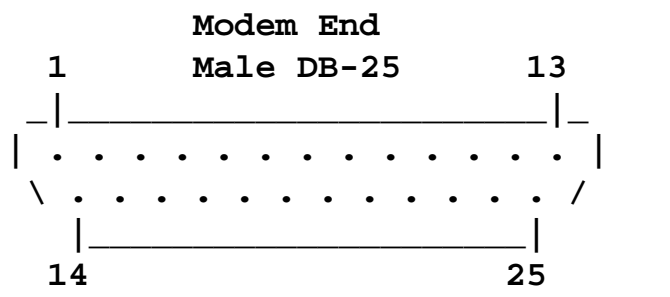


| | | | | | | | _ |



Cable NF

EIA-232 Modem Cable, Device 128-Port Async Cable



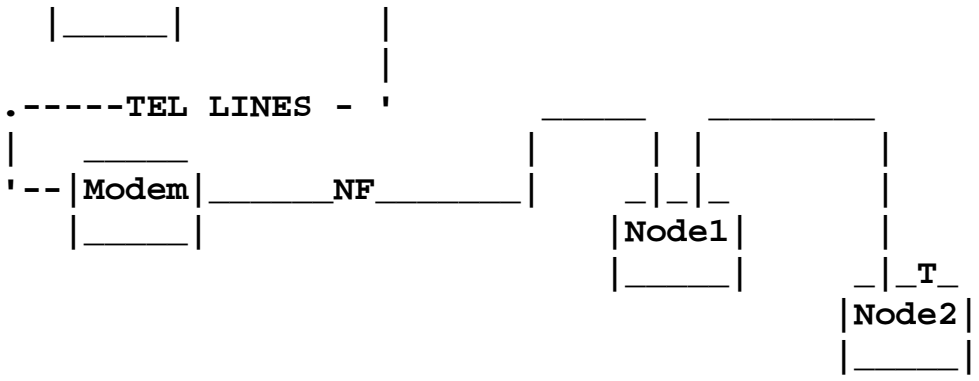
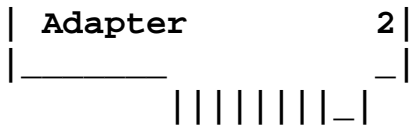
* = 2200pf Capacitor

Modem End DB-25 Male Signal		Ran End HD-15 Female Signal
RxD 3	_____	6 RxD
RxC 17	_____	9 RxC
		*
	|	|_____ 10
TxD 2	_____	1 TxD
TxC 15	_____	4 TxC
		*
	|	|_____ 5
SG 7	_____	12 SG
FGND Shell,1	_____	Shell FGND
	4 _____	
	6 _____	
	20 _____	

24 AWG - max12.5pF/f - type Belden 9929 or equivalent
Controller line baud rates of 19.2 Kbps or less are recommended.

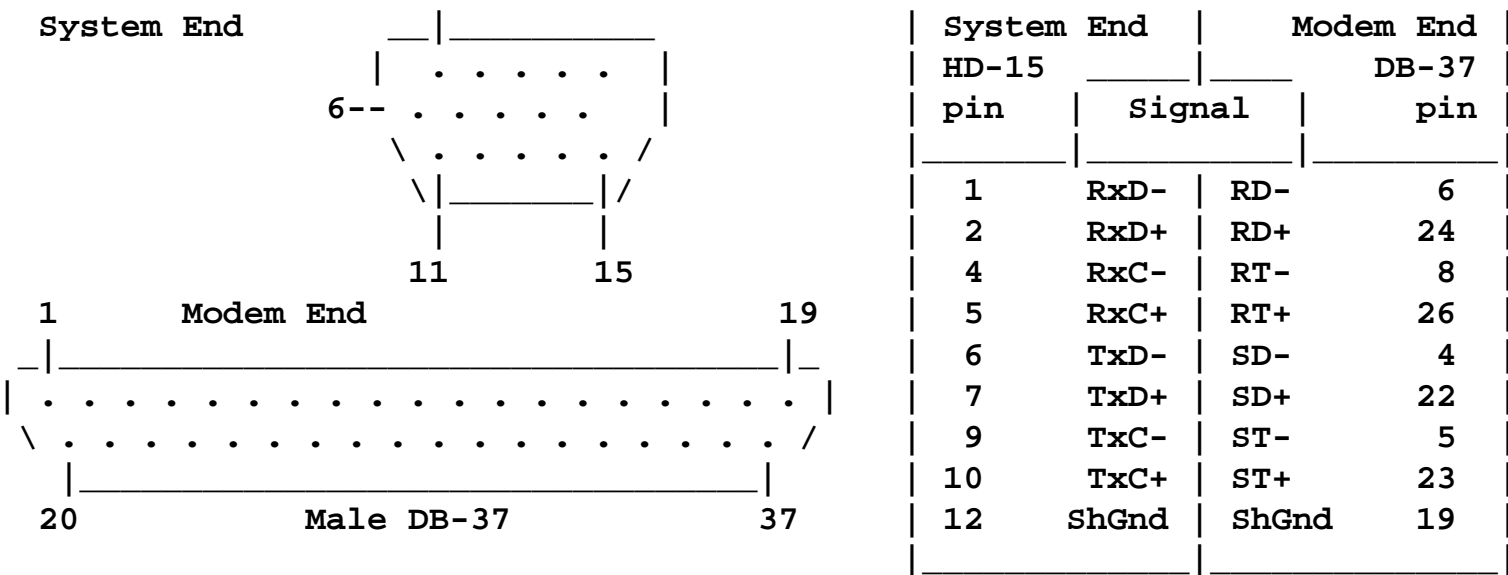
... WHERE USED

| 128-Port 1 | _____ NE _____ | Modem | ----- - ,

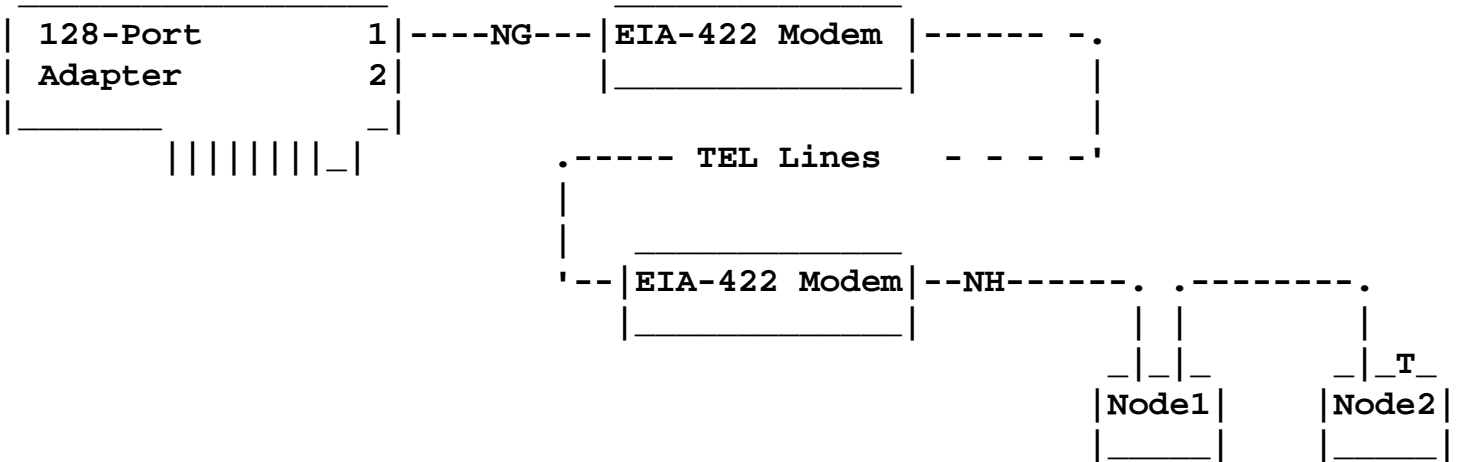


128-Port Async Controller Cable Cable NG - EIA-422 Modem Cable, System

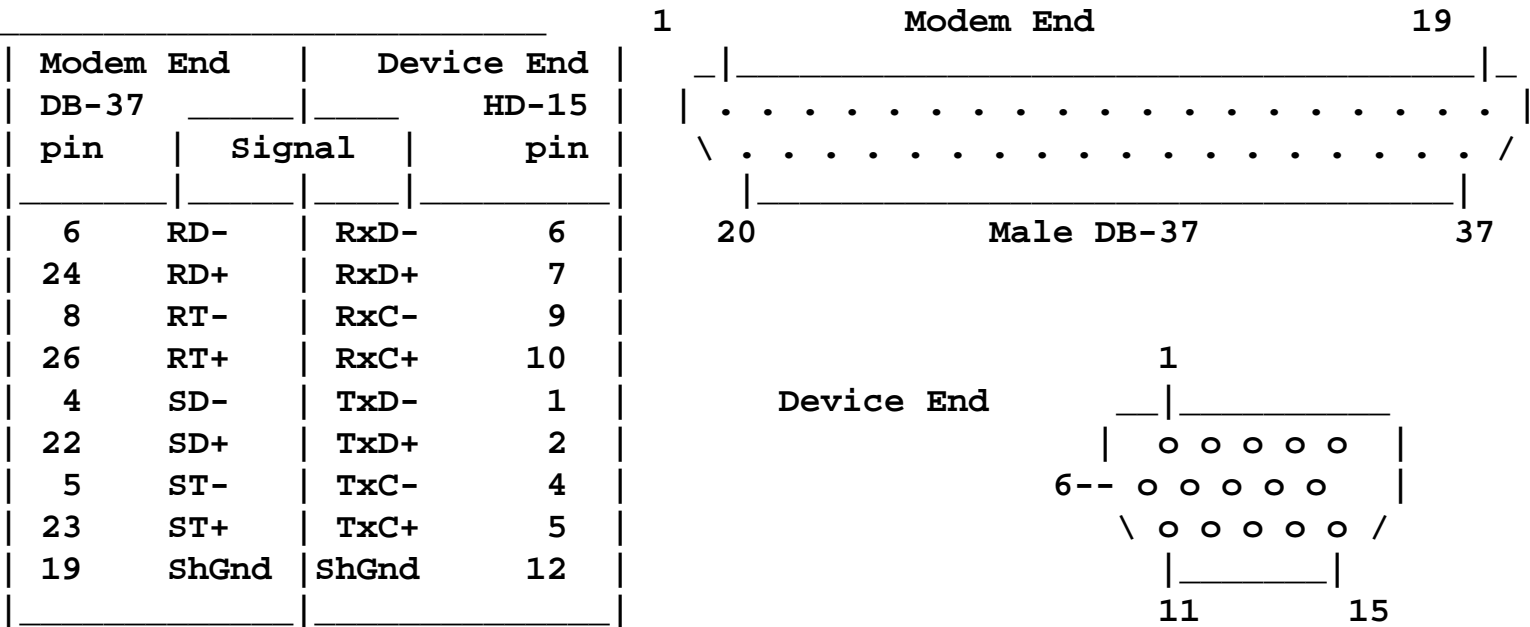
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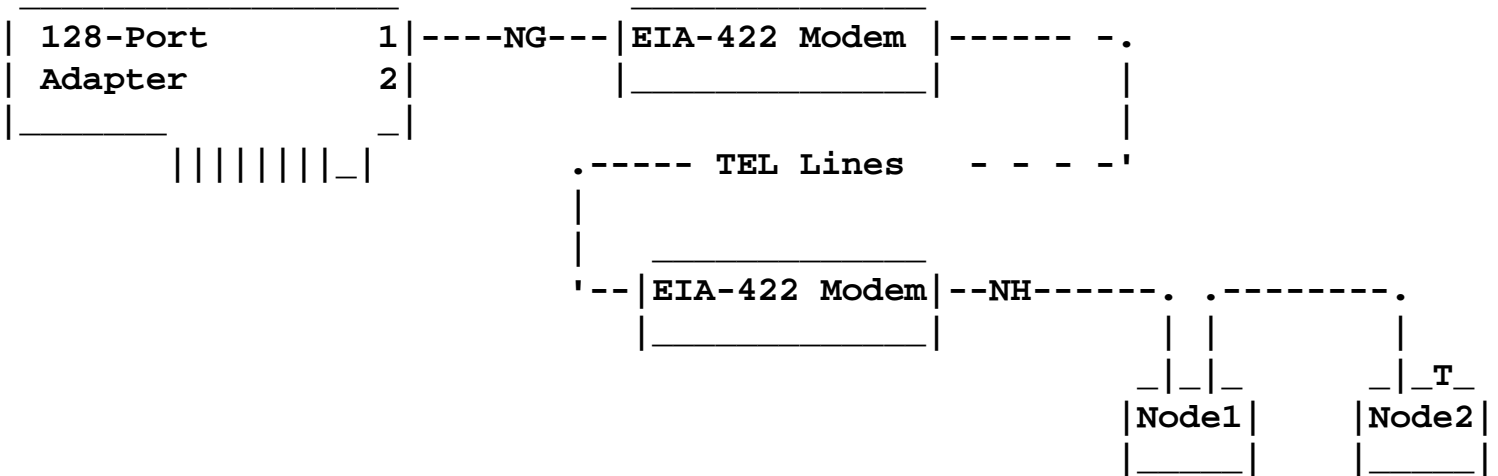
<=1000ft 28 AWG - max16pF/f - type Belden 9806 or equivalent
 >1000ft 24 AWG - max16pF/f - type Belden 9831 or equivalent



128-Port Async Controller Cable Cable NH - EIA-422 Modem Cable, Device



Up to 100ft - 24 AWG - max12.5 en 9929 or equivalent
 Controller line baud rates of 57.6 Kbps or less recommended.



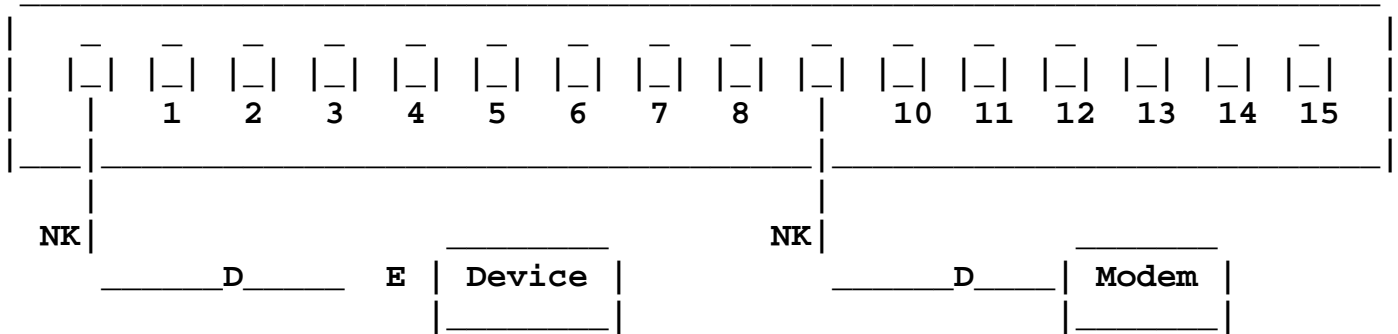
128-Port Async Controller Cable

Cable NK 10pin RJ45 to DB25 Converter Cable - 1.5ft

PN43G0935 (kit of 4) or PN51G8610 (Qty 1)

This cable is too short to attach to a device. It must be be extensionned with Cable-D and Cable-E

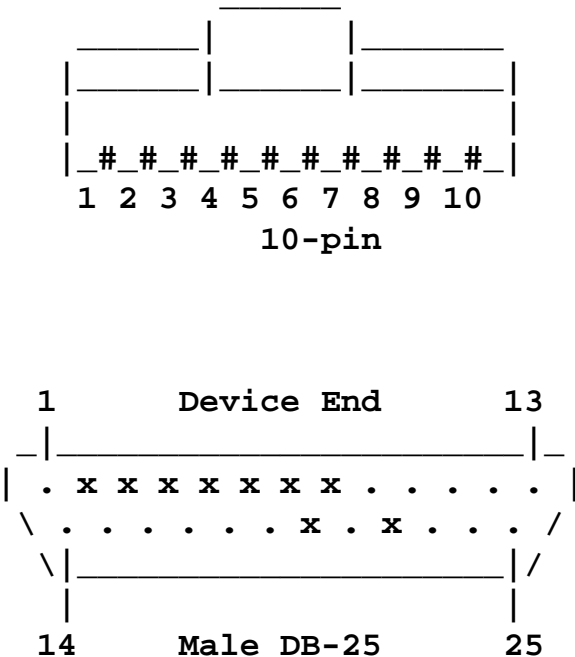
RAN



Cables D PN6323741
E PN58F2861

Cable Ran End

CABLE NK pinout



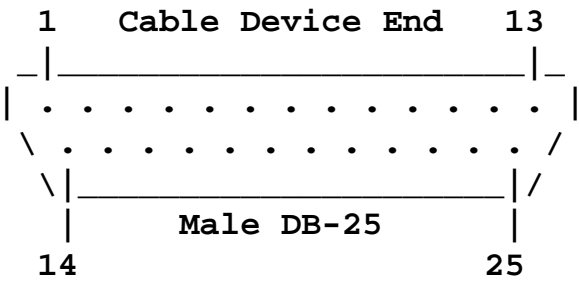
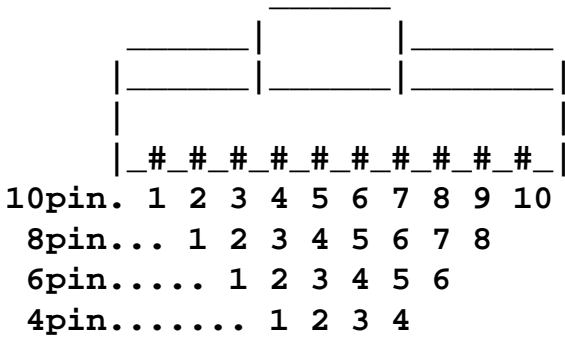
Signal Name	RAN port RJ45	Device DB25
RI	1	22
DSR	2	6
RTS	3	4
Chassis Gnd	4	Shell
TD	5	2
RD	6	3
Signal gnd	7	7
CTS	8	5
DTR	9	20
CD	10	8

x = only these pins are physically present.

NOTE: This cable is not interchangeable with the 64-port RJ45 to DB25 Cable-P

128-Port Async Controller Cable Cable NL 4/6/8/10pin RJ11/RJ45-to-DB25 Terminal/Printer Customer Supplied

Cable Ran End



Cabling Options

Ran End	4Pin	6Pin	8Pin	10pin	Device DB-25
RI 1				1	22 RI
DSR*2			1	2	20 DTR
RTS 3		1	2	3	5 CTS
GND 4	1	2	3	4	Sh GND
TD 5	2	3	4	5	3 RD
RD 6	3	4	5	6	2 TD
SG 7	4	5	6	7	7 SG
CTS 8		6	7	8	4 RTS
DTR 9		:	8	9	6 DSR
DCD*10		:	:	10	8 DCD*

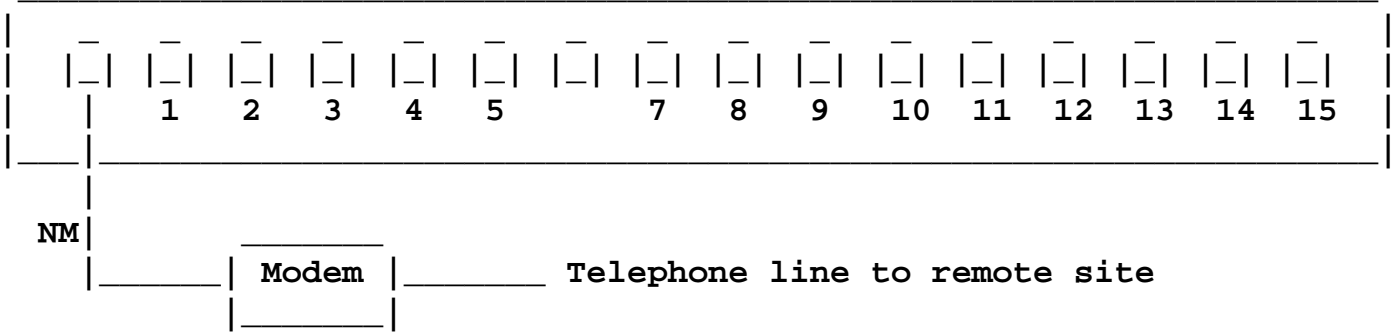
* Signals DCD and DSR may be "swapped" by software control for 10-Pin.

NOTE: This cable is not interchangeable with the 64-port RJ45 to DB25 Cable-P

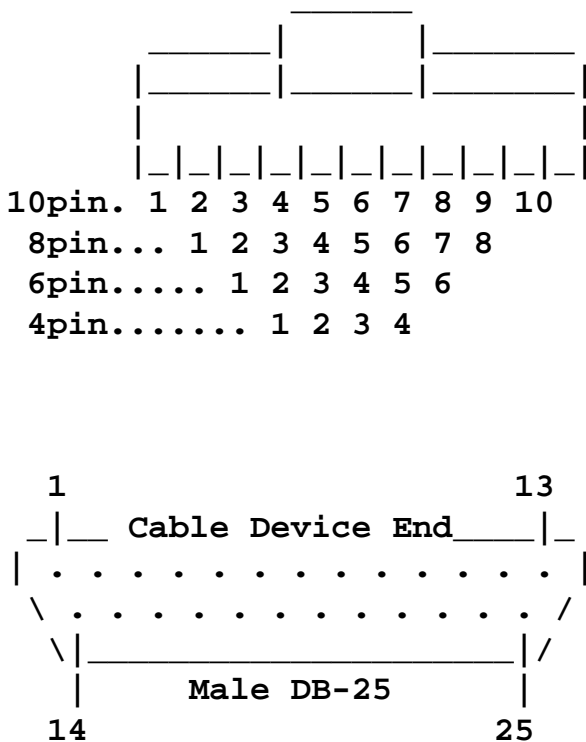
Cable-NM 4/6/8/10pin RJ45-to-DB25 Modem Cable

Customer Supplied

This cable is used to attach a modem on a port



Cable Ran End



Ran End	Cabling Options			Device	
	RJ-45	4Pin	6Pin		10pin	DB-25
RI 1				1 -----	22 RI
DSR*2				2 -----	6 DSR
RTS 3		1 ---	3 -----		4 RTS
GND 4	- 1 ---	2 ---	4 -----		Sh GND
TD 5	- 2 ---	3 ---	5 -----		2 TD
RD 6	- 3 ---	4 ---	6 -----		3 RD
SG 7	- 4 ---	5 ---	7 -----		7 SG
CTS 8		6 ---	8 -----		5 CTS
DTR 9			9 -----		20 DTR
DCD*10			10-----		8 DCD*

* Signals DCD and DSR may be "swapped" by software control for 10-Pin.

NOTE: This cable is not interchangeable with the 64-port RJ45 to DB25 Cable-P

Ran End		Device
RJ-45	8-pin	DB-25
DSR*1	---	8 DCD

RTS	2	---	4	RTS
GND	3	---	Sh	GND
TD	4	---	2	TD
RD	5	---	3	RD
SG	6	---	7	SG
CTS	7	---	5	CTS
DTR	8	---	20	DTR
<hr/>				

* Signals DCD and DSR may be "swapped"
by software control for 10-Pin.

DB-9 Serial Cables

128-Port RJ-45 to DB9 for HP Laserjet IV

	System Ende	Printer end
Signal	RJ-45	DB-9 HP
RD	5 _____	2 TD
TD	4 _____	3 RD
DTR	8 _____	4 DSR
S Gnd	6 _____	5 Gnd
DSR	1 _____	6 DTR
CTS	7 _____	8 DTR

NOTE: This cable has not been tested but it should work. There is 2 pins identified as DTR: 6 and 8. HP says to wire pin 6 to DSR and pin 8 to CTS of the system end. I figure out that one DTR is used to signal the system the printer is ON and the other DTR is used for hardware flow control.

64-Port to 128-Port Converter Cable #8135

P/N 88G3651 - kit 88G3650

8 Wire RJ-45 Plug	Signal	8-Wire RJ-45
Pin		Pin
1	DCD/DSR	4
2	RTS	2
3	Chassis Ground	1
4	TxD	6
5	RxD	3
6	Signal Ground	5
7	CTS	8
8	DTR	7

TYPE	DRIVE TYPE	FORM FACTOR	CAPACITY in GB	SCSI CONN PINS	REQUIRED JUMPER (s)	JUMPER BLOCK PINS
A1	DFHS/DFMS	1"	1.1/2.2	50	23-24	32
A2	DFHS/DFMS	1"	1.1/2.2	68	23-24	32
A3	DFHS/DFMS	1.6"	4.5	68	23-24	32
A4	DFHS	1"	2.2	68	23-24 25-26	32
B1	Quantum	1"	1.1/2.2	50	None	20
B2	Quantum	1"	1.1/2.2	68	None	12
B3	Quantum	1.6"	4.5	68	None	12
C1	DCHS	1"	2.2	50	None	32
C2	DCHS	1"	2.2	68	None	32
C3	DCHS	1"	4.5	68	23-24 31-32	32
C4	DCHS	1.6"	9.1	68	23-24 31-32	32
C5	DCHS	1"	2.2	68	25-26	32
D1	Quantum	1"	2.2/4.5	68	31-32	32
D2	Quantum	1.6"	9.1	68	31-32	32
D3	Quantum	1"	2.2	68	23-24 31-32	32
E1	DGHS	1"	9.1	68	None	32
E2	DGHS	1.6"	18.2	68	Note3	32
F1	DDRS	1"	4.5	68	Note3	-
G1	DNES	1"	4.5/9.1/18.2	68		12
H1	DMVS	1"	9.1/18.2	68	None	32
H2	DMVS	1.6"	36.4	68	None	32
I1	DPSS	1.6"	9.1/18.2	68	None	14
I2	DDYS	1.6"	9.1/18.2/36.4	68	None	14
	ST3XXX		18.2			

160MB & 200MB SCSI Disk Drive Jumpers Setting

160MB Disk PN81F8085..... Riser Card PN00G2721... FFC959

200MB Disk PN43G1842..... FFC989

160MB J3 Block

Address	Jumper 1	Jumper 2	Jumper 3	
0	Off	Off	Off	
1	On	Off	Off	
2	Off	On	Off	
3	On	On	Off	
4	Off	Off	On	
5	On	Off	On	
6	Off	On	On	

160MB J3 Block		
1	_2_	_3_
o	o	o
o	o	o

200MB J4 Block					
1	_2_	_3_	_4_	_5_	_6_
o	o	o	o	o	o
o	o	o	o	o	o

NOTE: The device is shipped with jumper configured for Address 6. removed and a address cable is attached to the connector. The SCSI address is set at the back panel of the device.

355MB & 670MB SCSI Disk Drive Jumper Setting

355MB Disk Drive..... PN53F3427
 670MB Disk Drive..... PN53F3429
 Logic Card (355MB/670MB)..... PN6373521

Addr	Jmp J35	Jmp J36	Jmp J37		Disk Drive
0	Off	Off	Off	_	
1	On	Off	Off	_	
2	Off	On	Off		== J35
3	On	On	Off		== J36
4	Off	Off	On		== J37
5	On	Off	On		
6	Off	On	On	_	

NOTE: When the Disk is installed in a 7203, ALL jumpers must be set to address 0.
 The device is shipped with no address jumpers installed.

540MB SCSI-2 Single-Ended Disk Drive Jumper Setting

Disk Drive.....PN51G8237 FFC981

J6

9	7	5	3	1
o	o	û	û	o
o	o	û	û	o
10	8	6	4	2

Addr	Jmpr1-2	Jmpr3-4	Jmpr5-6
0	Off	Off	Off
1	On	Off	Off
2	Off	On	Off
3	On	On	Off
4	Off	Off	On
5	On	Off	On
6	Off	On	On

857MB/1.07GB SCSI Disk Drives

5 1/4" 857MB/1.07GB

857MB slim 3 1/2"

ON	_1_2_3_4_
	| X X X |
OFF	|_X_____|

Example:
Address
is 3.

Switch 4 is always
set to ON.

Switch		
1	2	3
Off	Off	Off
Off	Off	On
Off	On	Off
Off	On	On
On	Off	Off
On	Off	On
On	On	Off

0
1
2
3
4
5
6

Address

Jumper		
3	2	1
Off	Off	Off
Off	Off	On
Off	On	Off
Off	On	On
On	Off	Off
On	Off	On
On	On	Off

_3_2_1_
o o X o
o o X o o

Example:
Address
is 1

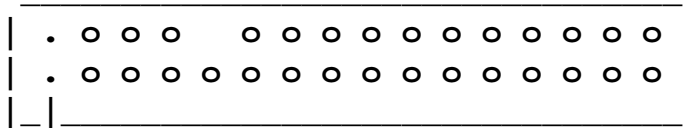
1GB SCSI Disk Drives

1GB disk are shipped with no jumper installed.

In 7204, all jumpers MUST be removed. SCSI address is set on the back panel of the 7204.

Disk Type	Disk Label	VPD Contents	Comments
1GB	Label E12 P/N 55F9838 FRU 55F9902	VPD IBM 0663L12 Ref 55F9838 FRU 55F9902	Corsair IIE SCSI-2 SE certify 995 Mb
	SCSI ID weight	1 2 4	
		<pre> | o o o o o o o | | o o o o o o o o | </pre>	
1GB 55F9915	Label E12 P/N 55F9825 P/N 55F9915 55F5983	VPD IBM OEM 0663E12 ref 55F9825 FRU 55F9915	??? SCSI-2 SE certify : 995 Mb
	SCSI ID weight	1 2 4	
		<pre> | o o o o o o o | | o o o o o o o o | </pre>	
1GB 45G9467	Label S12 P/N 45G9512 FRU 45G9467	VPD IBM 0663L12 Ref 45G9464 Z1 45G9874	Spitfire SCSI-2 SE
	SCSI ID weight	4 2 1	
		<pre> | . o o o o o o o o o o | | . o o o o o o o o o o o | </pre>	

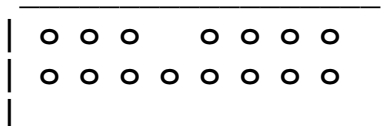
1GB 86G9049	S1F	IBM	0663L12	Starspit
	P/N 86G9048	Ref	86G9048	SCSI-2 SE 8-bit
	FRU 86G9049	FRU	21H0775	
	SCSI ID weight		4 2 1	



|_ No Physical pin at that position

1GB 6374682

Jumpers at the back
of Differential
Back Panel



The differential drive signal connector is labeled "Differential SCSI".

1.37GB SCSI Disk Drives

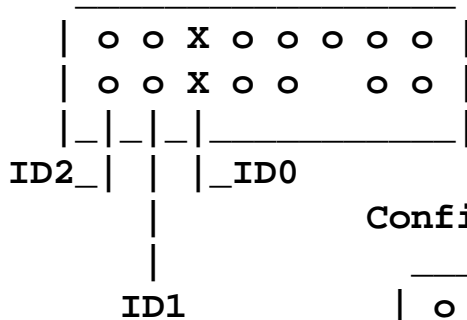
Disk Drive PN31G9755

(2 possible configurations)

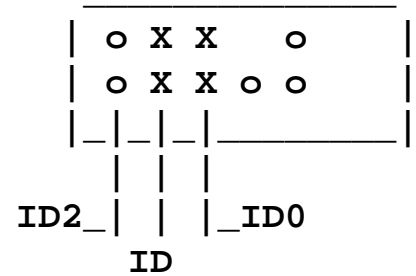
Addr	Jmp ID2	Jmp ID1	Jmp ID0
0	Off	Off	Off
1	Off	Off	On
2	Off	On	Off
3	Off	On	On
4	On	Off	Off
5	On	Off	On
6	On	On	Off

Jumper PN65F1103

Config1 (Ex. addr 1)



Config2 (Ex .addr 3)



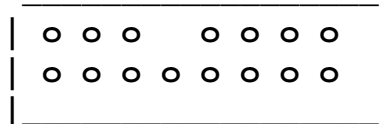
2GB SCSI Disk Drives

50-pin SCSI Connector - Fast 10MB/sec) - FRU 86F0118

Address	Jumper 0	Jumper 1	Jumper 2
0	Off	Off	Off
1	On	Off	Off
2	Off	On	Off
3	On	On	Off
4	Off	Off	On
5	On	Off	On
6	Off	On	On

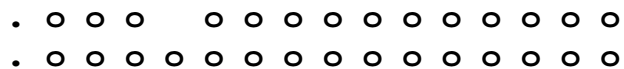
2GB	Label Type 0664 P/N 86F0101 FRU 86F0118	VPD IBMRISC 0664M1H Ref 86F0101 FRU 86F0118	Allicat SCSIIF SE
-----	---	---	----------------------

SCSI ID weight 1 2 4



2GB	Label DFMS S2F P/N 86G9098 FRU 86G9099	VPD IBMRISC 0664M1H Ref 86G9098 FRU 21H0775 21H0894	Staralli SCSI-2 SE
-----	--	---	-----------------------

SCSI ID weight 4 2 1



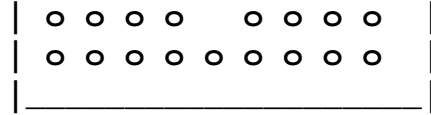
68-pin SCSI Connector - Fast/Wide 20MB/sec - FRU 86G0767

Addr	Jmp 0	Jmp 1	Jmp 2	Jmp 3
0	Off	Off	Off	Off
1	On	Off	Off	Off

Single-Ended Fast/Wide
Drive back panel

2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6*	Off	On	On	Off
7*	On	On	On	Off
8	Off	Off	Off	On
9	On	Off	Off	On
10	Off	On	Off	On
11	On	On	Off	On
12	Off	Off	On	On
13	On	Off	On	On
14	Off	On	On	On
15	On	On	On	On

0 1 2 3



* Addr 7 is usually reserved for the adaptor. In high-availability configurations, the second adapter is usually assigned address 6.

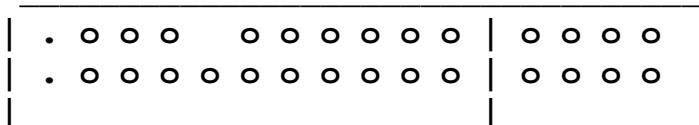
2.2GB SCSI Disk Drives

Single-Ended and Differential Disk Drives

Addr	Jmp3	Jmp2	Jmp1	Jmp0	3	2	1	0
0	Off	Off	Off	Off				
1	Off	Off	Off	On	Pin 1	----	o o o o	o o o o o o o X o o o o
2	Off	Off	On	Off	Pin 2	----	o o o o o o o o o o o o o X o o o o	
3	Off	Off	On	On				
4	Off	On	Off	Off				Pin 1 and Pin 2 do not exist in the 50pin model.
5	Off	On	Off	On				
6*	Off	On	On	Off				
7*	Off	On	On	On				
8	On	Off	Off	Off				
9	On	Off	Off	On	* Addr 7 is usually reserved for the adaptor. In high-availability configurations, the second adapter is usually assigned address 6.			
10	On	Off	On	Off				
11	On	Off	On	On				
12	On	On	Off	Off				
13	On	On	Off	On				
14	On	On	On	Off				
15	On	On	On	On				

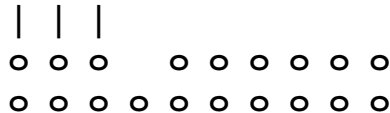
2.2GB	Label S2F P/N 74G6996 FRU 74G6996	VPD IBMRISC DFHSS2F Ref 74G6976 FRU 74G6996	Starfire SCSIFW SE
--------------	---	--	-----------------------

SCSI ID weight 4 2 1



2.25GB	Label xP32150 P/N 74G8790 FRU 74G6996	VPD IBMRISC DFHSS2F Ref 74G8790 FRU 74G8791	SCSI2 SE Quantum Metal case
---------------	---	--	-----------------------------------

SCSI ID weight 4 2 1



FLT OUT _____ | | | | |

```

BSY OUT _____ | | | |
Spin Up _____ | | | |
Reserved _____ | | | |
Wrt Prot _____ | | | |
SP Sync _____ | | | |
    
```

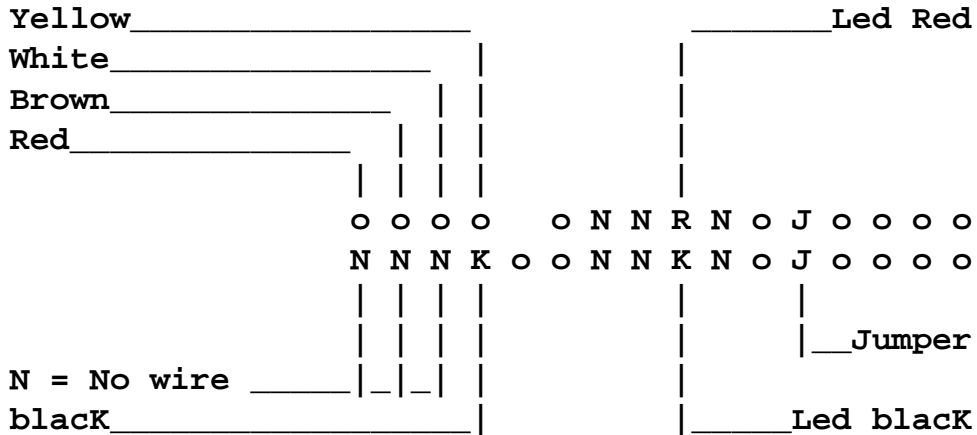
```

2.2GB      Label          VPD
           S2W           IBMRISC DFHSS2W      Starfire
           P/N 74G6984   Ref 74G6984      SCSI FW SE
           FRU 74G7007   FRU 74G7007      7131-150 105?
                                           7204-113
    
```

SCSI ID weight 4 2 1

```

Internal      o o o o    o o o o o o o J o o o o
              o o o o o o o o o o o J o o o o
    
```

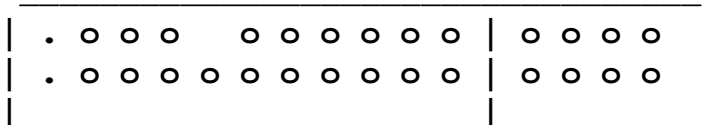


In 7204-113

```

2.2 Gb     Label          VPD
           S2W           IBMRISC DFHSS2W
           P/N 86G8699   Ref 07H7536      7135-210
           FRU 07H7536
    
```

SCSI ID weight ? ? ?



2.25 Gb

Quantum Harpoon IBMRISC DFHSS2W

SCSI2 FW

P/N 74G8812

Ref 74G8812

Quantum Harpoon

FRU 74G8824

FRU 74G8824

Metal case

SCSI ID weight 8 4 2 1

| | | |

pin1--> o o o o o o o o o o o o o o o o

o o o o o o o o o o o o o o o o <--pin32

Key_____ | | | | | | | |

Auto Start_____ | | | | | | | |

Active Term_____ | | | | | | | |

Spindle Sync_____ | | | | | | | |

* 8 bit emulation_____ | | | | | | | |

Mandatory_____ | | | | | | | |

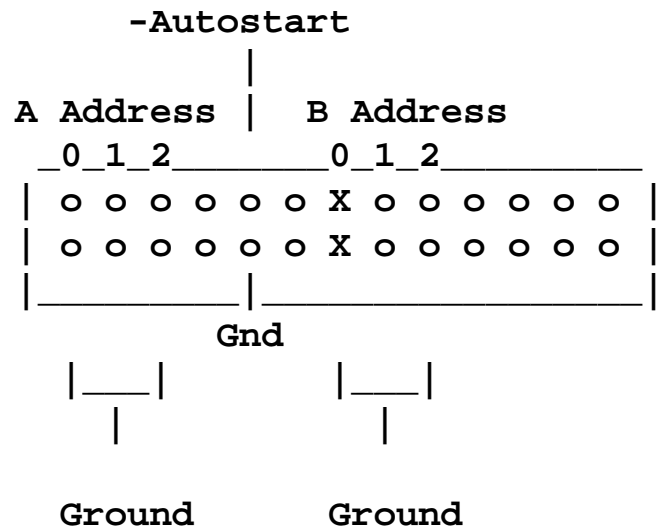
* 8 bit emulatione present when Wide disk (16bit) is used on a Narrow bus (8bit).

Last updated 29 Dec 1999 by Bruno Croft

2.4GB SCSI DISK DRIVE #2590

Disk Drive 36G3454

Addr	Addr0	Addr1	Addr2
0	Off	Off	Off
1	On	Off	Off
2	Off	On	Off
3	On	On	Off
4	Off	Off	On
5	On	Off	On
6	Off	On	On



NOTE: Each of the two SCSI drives must be assign its own, unique SCSI ID (address); the system will configure as two individual SCSI drives.

4.5GB SCSI Disk Drives

Single-Ended and Differential Disk Drives

Addr	Jump3	Jump2	Jump1	Jump0	3 2 1 0
0	Off	Off	Off	Off	
1	Off	Off	Off	On	Pin 1-----o o o o o o o o o o X o o o o
2	Off	Off	On	Off	Pin 2-----o o o o o o o o o o X o o o o
3	Off	Off	On	On	
4	Off	On	Off	Off	Pin 1 and Pin 2 do not exist in the 50pin model.
5	Off	On	Off	On	
6*	Off	On	On	Off	
7*	Off	On	On	On	
8	On	Off	Off	Off	
9	On	Off	Off	On	* Addr 7 is usually reserved for the adaptor.
10	On	Off	On	Off	In high-availability configurations, the second adapter is usually assigned address 6.
11	On	Off	On	On	
12	On	On	Off	Off	
13	On	On	Off	On	
14	On	On	On	Off	
15	On	On	On	On	

	Label	VPD	
4.5GB	S4W Type DFHS	IBMRISC DFHSS4W	Starfire
	P/N 74G6985	Ref 74G6985SCSI SE	SCSI FW SE
	FRU 74G7008	FRU 74G7008	

	Label	VPD	
4.5GB	...	IBMRISC DFHSS4W	External dev
	... ..	Ref 74G8784	7204 Mod 114
	... ..	FRU 74G8787	

	Label	VPD	
4.5GB	DCHS 04W	IBM DCHS04W	Scorpion C3
	PN 93G2854	Ref 93G2854	SCSI FW SE
	FRU 93G2970	FRU 93G2970	

SCSI ID weight	8 4 2 1

```

          o o o o   o o o o o o J o o o J
          o o o o o o o o o o o o J o o o J   o o
Key_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | _ |
Autostart_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Active Term_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
SP Sync_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Led_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Write Protect_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Delayed Start_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Opt Block_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
DIS TI SY_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
DIS PAR_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
DIS UN A_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Reserv_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Term PWR Enable_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]

```

```

4.5GB      Label          VPD
           DCHS 04U      IBM DCHS04U      Internal J50
           PN 93G3159    PN 93G3159
           FRU 76H2697    FRU 76H2697

```

```

SCSI ID grey cable_____ Amber LED black wire
          | | | | |
          o o o o   o o o K o o ? o o o ?
          N N N N o o o o Y o o ? o o o ?   o o
          ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | _ |
No wire_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Key_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Autostart_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Active Term_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
SP Sync_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Amber LED Yellow wire_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Write Protect_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Delayed Start_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Opt Block_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
DIS TI SY_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
DIS PAR_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
DIS UN A_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Reserv_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]
Term PWR Enable_____ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]

```

11/27/97

9.1GB SCSI Disk Drives

Single-Ended and Differential Disk Drives

Addr	Jmp3	Jmp2	Jmp1	Jmp0	
0	Off	Off	Off	Off	
1	Off	Off	Off	On	Pin 1-----o o o o o o o o o o X o o o o
2	Off	Off	On	Off	Pin 2-----o o o o o o o o o o o X o o o o
3	Off	Off	On	On	
4	Off	On	Off	Off	
5	Off	On	Off	On	
6*	Off	On	On	Off	
7*	Off	On	On	On	
8	On	Off	Off	Off	
9	On	Off	Off	On	
10	On	Off	On	Off	
11	On	Off	On	On	
12	On	On	Off	Off	
13	On	On	Off	On	
14	On	On	On	Off	
15	On	On	On	On	

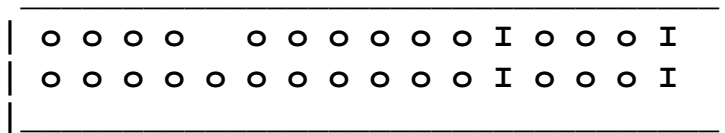
3 2 1 0

Pin 1 and Pin 2 do not exist in the 50pin model.

* Addr 7 is usually reserved for the adaptor. In high-availability configurations, the second adapter is usually assigned address 6.

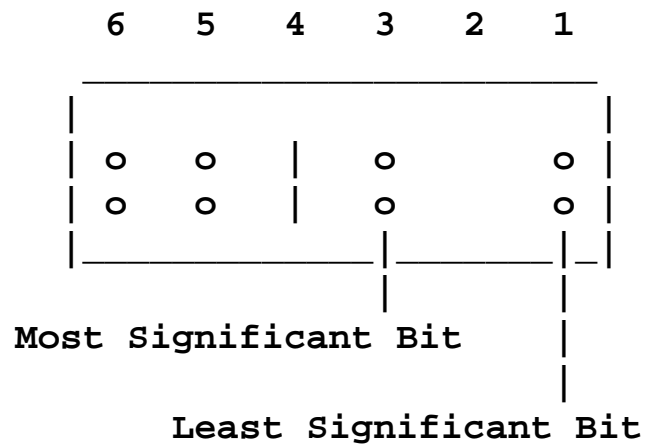
9.1GB	Label	VPD	
	IBM DCHS09W	IBM DCHS09W	Scorpion
	FRU 93G2972	Ref 93G2972	SCSIFW SE
	P/N 93G2863	FRU 74G6985	

SCSI ID weight 8 4 2 1



150MB 1/4" SCSI Tape Drive - JUMPERS

Addr	Jumper3	Jumper2 ³	Jumper1
0			
1			X
2		X	
3		X	X
4	X		
5	X		X
6	X	X	
7*	X	X	X



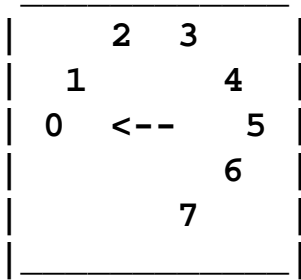
Jumper 4 parity (always)

Jumpers 5 & 6 removed

* Normally reserved for SCSI adapter address.

525MB 1/4" SCSI Tape Drive - SETTING the SCSI Address

525MB 1/4" SCSI Tape Drive - SETTING the SCSI Address

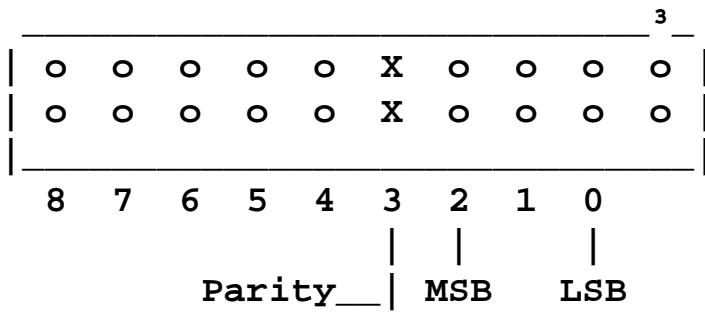


Set the address switch shown to the desired address (do not choose 7) with a small screwdriver.

EXTERNAL SCSI Address Switch

1.2GB 1/4" SCSI Tape Drive - Jumpers

Termination PowerÄ;

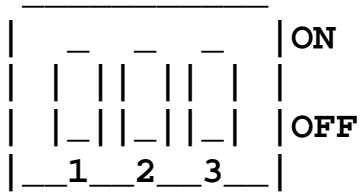


Jumper 3 parity (always)
 Jumpers 4 to 8 removed

Addr ³	Jmp0 ³	Jmp1 ³	Jmp2
0			
1	Yes		
2		Yes	
3	Yes	Yes	
4			Yes
5	Yes		Yes
6		Yes	Yes
7*	Yes	Yes	Yes

* Normally reserved for SCSI adapter address.

2.3GB 8mm Tape Drive SCSI - JUMPERS



Addr	Switch1	Switch2	Switch3
0	Off	Off	Off
1	On	Off	Off
2	Off	On	Off
3	On	On	Off
4	Off	Off	On
5	On	Off	On
6	Off	On	On
7	On	On	On

5GB 8mm SCSI Tape Drive Internal/External Address Setting

:=====:

INTERNAL			Addr	Jumper2	Jumper1	Jumper0
			=====	=====	=====	=====
X	O	O	0	No	No	No
-X		-	1	No	No	Yes
X	O	O	2	No	Yes	No
_____	_____	_____	3	No	Yes	Yes
_____	_____	_____	4	Yes	No	No
2	1	0	5	Yes	No	Yes
|		|	6	Yes	Yes	No
MSB		LSB	7	Yes	Yes	Yes
			_____	_____	_____	_____

The 5GB Tape Drive device is shipped with three jumpers installed.

EXTERNAL

-
3
+

Press the - or + Push button behind tape drive to display desired address.

4.0GB 4mm Tape Drive SCSI - SWITCHES

Addr ³	Switch3	Switch2	Switch1
0	Off	Off	Off
1	Off	Off	On
2	Off	On	Off
3	Off	On	On
4	On	Off	Off
5	On	Off	On
6	On	On	Off

OFF	-	-	-	-	-	-	X	-	-	-
ON	X	X	X	X	X	-	X	X		
							3	2	1	

VPD:

Machine Type and Model.....DFHSS2F
Part Number.....74G6976
ROS Level and ID.....34313431
Serial Number.....00201003
EC Level.....486500
FRU Number.....74G6996
Device Specific.(Z0).....000002029F00001E
Device Specific.(Z1).....RAMST04A
Device Specific.(Z2).....09RI
Device Specific.(Z3).....95320
Device Specific.(Z4).....0002
Device Specific.(Z5).....22
Device Specific.(Z6).....D46995

lscfg -vl hdisk1

DEVICE	LOCATION	DESCRIPTION	OID
hdisk1	04-A0-00-10,0	2.2 GB 16 Bit SCSI Disk Drive	BDC
Manufacturer.....IBMRISC			
Machine Type and Model.....DFHSS2W			
Part Number.....74G6984			PAGE
ROS Level and ID.....34323432			13
Serial Number.....68BE7856			OF
EC Level.....486509			20
FRU Number.....74G7007			
Device Specific.(Z0).....000002029F00003E			
Device Specific.(Z1).....RAMST04B			
Device Specific.(Z2).....09RI			
Device Specific.(Z3).....97115			
Device Specific.(Z4).....0002			
Device Specific.(Z5).....22			
Device Specific.(Z6).....484547			

#lscfg -vl hdisk0

DEVICE	LOCATION	DESCRIPTION
hdisk0	00-00-0S-1,0	2.2 GB 16 Bit SCSI Disk Drive
	Manufacturer.....	IBMRISC
	Machine Type and Model.....	DFHSS2W
	Part Number.....	74G8812
	ROS Level and ID.....	4C594544
	Serial Number.....	06953342
	EC Level.....	D47202
	FRU Number.....	74G8824
	Device Specific.(Z0).....	000002029F00003E
	Device Specific.(Z1).....	LYED
	Device Specific.(Z2).....	0067
	Device Specific.(Z3).....	
	Device Specific.(Z4).....	0001
	Device Specific.(Z5).....	22
	Device Specific.(Z6).....	D47202

VPD:

Manufacturer.....IBMRISC
Machine Type and Model.....DFHSS2F
Part Number.....74G8790
ROS Level and ID.....39364334
Serial Number.....61350875
EC Level.....D47200
FRU Number.....74G8791
Device Specific.(Z0).....000002029F000016
Device Specific.(Z1).....96C4
Device Specific.(Z2).....PE
Device Specific.(Z3).....
Device Specific.(Z4).....0002
Device Specific.(Z5).....22
Device Specific.(Z6).....D47200

hdisk9 B0-60-00-6,0 2.2 GB 16 Bit Differential SCSI Disk Drive

Manufacturer.....IBMRISC
Machine Type and Model.....DFHSS2E
Part Number.....74G6987
ROS Level and ID.....34313431
Serial Number.....68B97259
EC Level.....486509
FRU Number.....<74G7010>
Device Specific.(Z0).....000002029F00003E
Device Specific.(Z1).....RAMST04A
 Device Specific.(Z3).....97091
Device Specific.(Z4).....0002
Device Specific.(Z5).....22
Device Specific.(Z6).....E28324

hdisk2 00-00-01-4,0 2.2 GB 16 bit SCSI Disk Drive

Manufacturer.....IBMRISC
Machine Type and Model.....DFHSS2W
Part Number.....74G8783
ROS Level and ID.....39364334
Serial Number.....61130000
EC Level.....D47200
FRU Number.....74G8786
Device Specific.(Z0).....000002029F000036
Device Specific.(Z1).....96C4
Device Specific.(Z2).....PE
Device Specific.(Z3).....
Device Specific.(Z4).....0002
Device Specific.(Z5).....22
Device Specific.(Z6).....D47200



4.5GB DISKs

Typical VPD example:

DEVICE	LOCATION	DESCRIPTION
hdisk0	10-60-00-8,0	16 Bit SCSI Disk Drive (4500 MB)

```

Manufacturer.....IBM
Machine Type and Model..... DCHS04U
FRU Number.....76H2697
ROS Level and ID.....32383238
Serial Number.....6805B259
EC Level.....488638
Part Number.....93G3159
Device Specific.(Z0).....000002029F00003E
Device Specific.(Z1).....RAMR6063
Device Specific.(Z2).....09RI
Device Specific.(Z3).....97099
Device Specific.(Z4).....0001
Device Specific.(Z5).....22
Device Specific.(Z6).....E29611
  
```



4.5GB DISKS

Typical VPD example:

DEVICE	LOCATION	DESCRIPTION
hdisk1	00-08-00-1,0	16 Bit SCSI Disk Drive (4500 MB)
Machine Type and Model.....DCHS04W FRU Number.....93G2970 ROS Level and ID.....32393239 Serial Number.....6805D74B EC Level.....488630 Part Number.....93G2854 Device Specific.(Z0).....000002029F00003E Device Specific.(Z1).....RAMR6063 Device Specific.(Z2).....09RI Device Specific.(Z3).....97274 Device Specific.(Z4).....0001 Device Specific.(Z5).....22 Device Specific.(Z6).....484537		

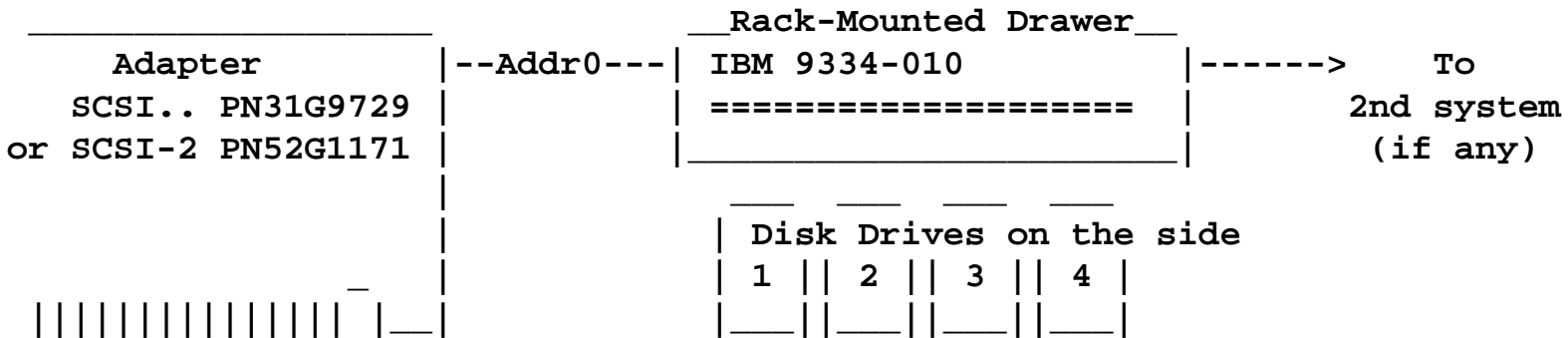
```
# lscfg -vl hdisk0
```

```
hdisk0          04-A0-00-0,0          16 Bit SCSI Disk Drive (9
```

```
Manufacturer.....IBM  
Machine Type and Model.....DNES-309170W  
FRU Number.....25L3101  
ROS Level and ID.....53413430  
Serial Number.....AJ020356  
EC Level.....F42005  
Part Number.....25L1861  
Device Specific.(Z0).....000003029F00013A  
Device Specific.(Z1).....25L2871
```

9334 Model 010 SCSI Expansion Unit (models 9xx only)

- 9334-010 * Rack-mounted drawer.
 * Can contain up to 4 SCSI disk-drive modules.
 * Each drawer can be attached to one or 2 adapters. If attached to 2 adapters, it can be in same or different system.
 Up to 4 drawers can be connected to one adapter.



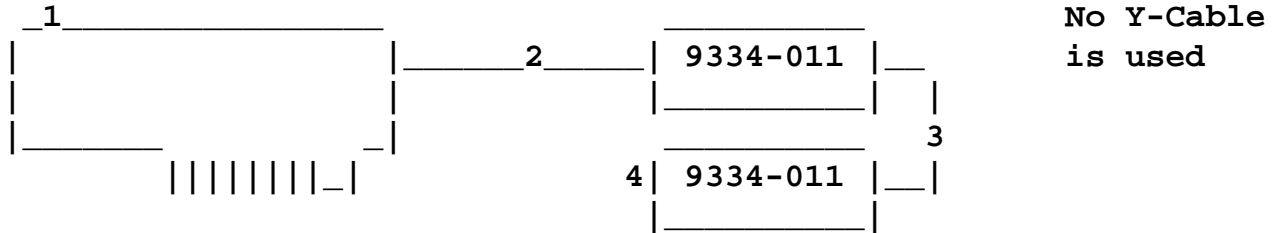
- SCSI Disk Drives for 9334-010
- * 670MB - 857MB
 - * 1.0GB 3.5" (AIX 3.2.3 Base Support required)
 - * 1,37GB - 2.4GB (Max 3)

Last update Aug 2002

9334-011 SCSI Differential Drawer Expansion Unit

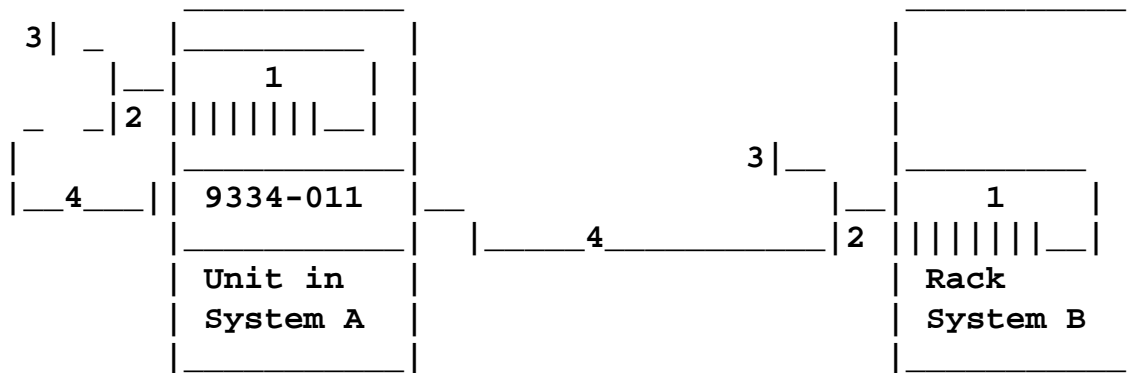
Cabling example for SCSI-2 Differential Controller Type 4-2
(Not High Availability)

Expansion Rack



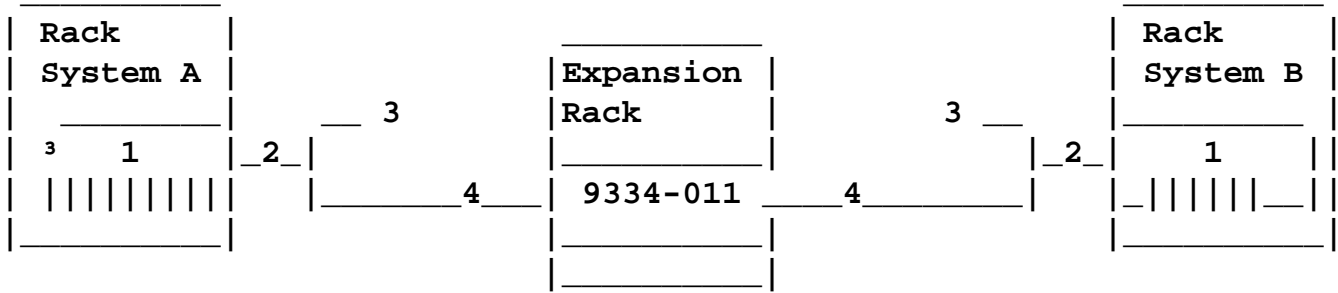
Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Adapter.	#2410	43G0176	
2- Cable Adapter-to-Device _____	#2921	67G0593	4.75m
_____ | _____	#2923	95X2494	8.0 m
3- Cable Drawer-to-drawer.....	#2925	95X2492	2.0m
4- Terminator 50-pin Low Density.....	#2847/9133	79X3795	N/A

High Availability for SCSI-2 Differential Controller Type 4-2



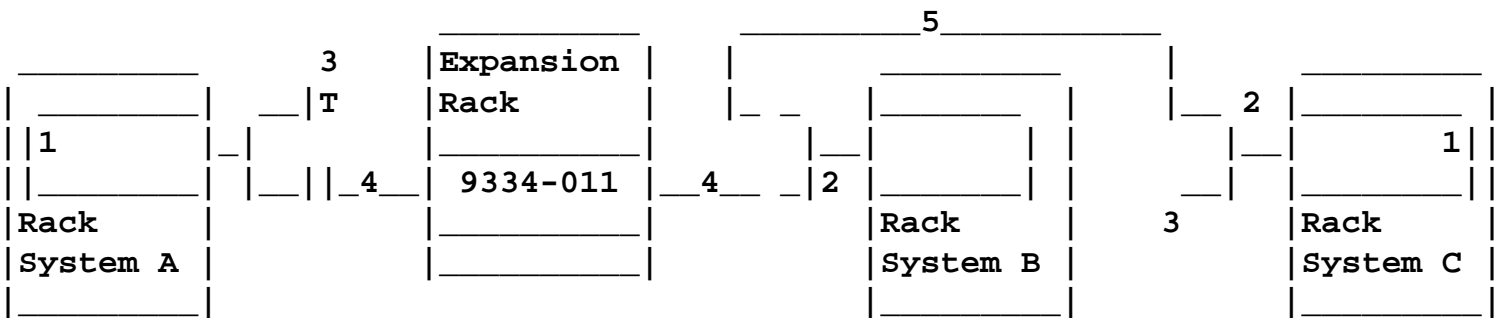
Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Type 4-2	#2410	43G0176	
2- Y-Cable	#2422	52G7348	0.765m
3- Terminator.....	#2422	52G7350	
4- Cable to 9334-011.....	#2921	67G0593	4.75m
_____ | _____	#2923	95X2494	8.0m

High Availability (Continued)



	FC	P/N	Length
1- SCSI-2 Differential Controller Type 4-2.	#2410	43G0176	
2- Y-Cable	#2422	52G7348	0.765m
3- Terminator.....	#2422inc	52G7350	
4- Cable Adapter-to-first 9334-011.....	#2921	67G0593	4.75m
	#2923	95X2494	8.0m

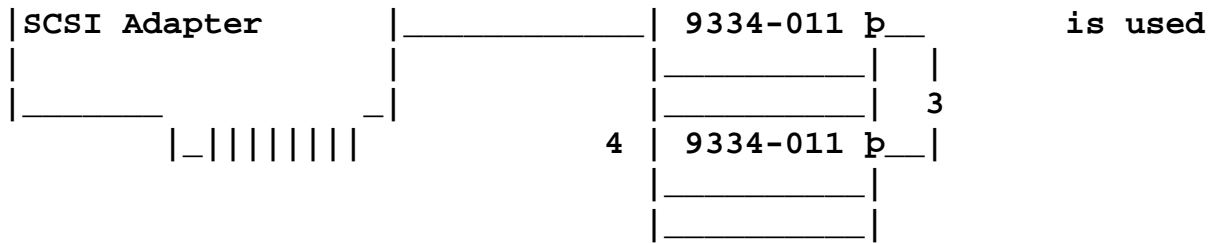
High Availability (Continued)



	FC	P/N	Length	
1- SCSI-2 Differential Controller Type 4-2	#2410	43G0176		
2- Y-Cable	#2422	52G7348	0.765m	
3- Terminator.....	#2422inc	52G7350		
4- Cable Adapter-to-first 9334-011.....	#2921	67G0593	4.75m	
	||..	#2923	95X2494	8.0m
5- Cable, system-to-system	#2423	52G7349	2.5m	

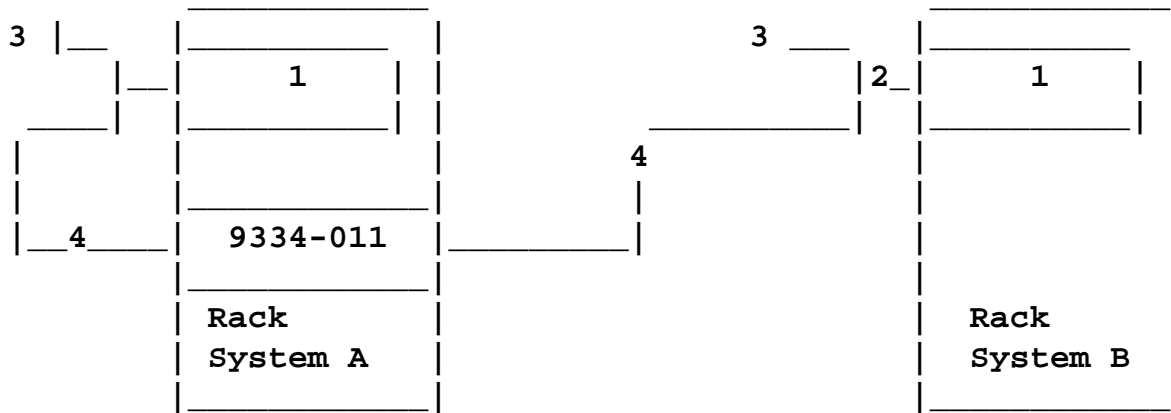
Cabling example for SCSI-2 Differential Fast/Wide Adapter/A Type 4-6
(Not High Availability)





Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Adapter.	2413	65G7315	
2- Cable Adapter-to-Device	2922/9222	52G4327	4.75m
3- Cable Unit-to-Unit.....	2924/9224	88G5757	8.0 m
4- Terminator 50-pin Low Density.....	2925/9225	95X2492	2.0m
	2847/9133	87G1356	N/A

High Availability Narrow for SCSI-2 Differential Fast/Wide Type 4-6

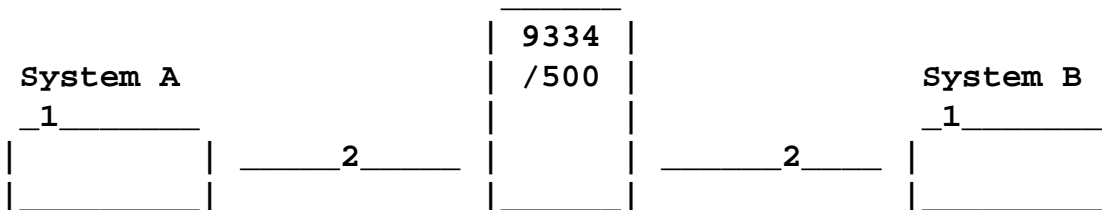


	FC	P/N	Length
1- SCSI-2 Differential Fast/Wide Type 4-6...	#2416	65G7315	
2- Y-Cable	#2427	52G4349	0.765m
3- Terminator.....	#2422	52G7350	
4- Cable/ To 9334-011.....	#2922	52G4327	4.75m
	#2924	88G5757	8.0m

Devices Name	P/N	FFC	FC
1 gb SCSI-2 Differential Disk Drive.....	6374682	913	#2565
2 gb SCSI-2 Differential Disk Drive.....	86F0119	912	#2585

1- Cable System-to-Device _____	2920/9206	45G2858	2.38m
_____	/9214	70F9188	1.48m
2- Terminator 50-pin Low Density FPT-18+..	9334Suppl	52G4260	

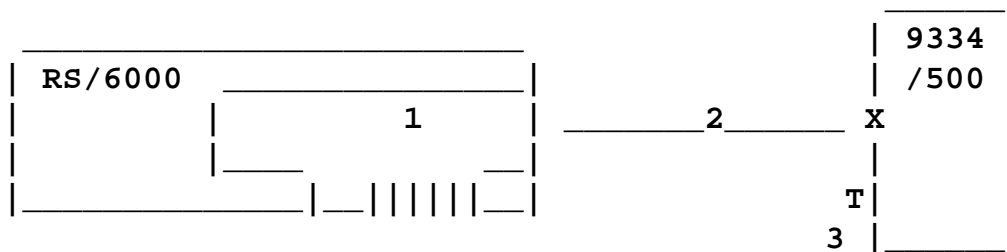
High Availability SCSI-1



Part Description	FC#	PN	Length
1- SCSI-1 Controller Type 4-1.....	2835	51G9425	
2. Passthrough Terminator Cable..... (9334 version of #2915/00G0959) 90ø		70F9171	1.48m

NOTES: No terminator on internal card edge connector,
 No internal device on same adapter used for 9334,
 SCSI controllers sharing the same SCSI bus MUST have different SCSI ID
 Jumper J1 on SCSI adapter must be removed.
 Integrated-SCSI models must add a Microchannel SCSI controller #2825

SCSI-2 Controllers #2410 Type 4-4

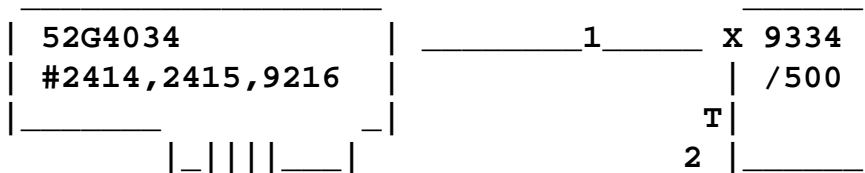


Part Description	FC#	PN	Length

1- SCSI-2 Controller Type 4-4.....	2410	52G1171	
2- Cable Adapter-to-Device _____	2920/9206	45G2858	2.38m
	/9214	70F9188	1.48m
3- Terminator (supplied with 9334-500)...		52G4260	

NOTE: There is no High Availability with SCSI-2 Controller

Cabling for SCSI-2 Single-Ended Fast/Wide Adapter/A Type 4-7 #2414



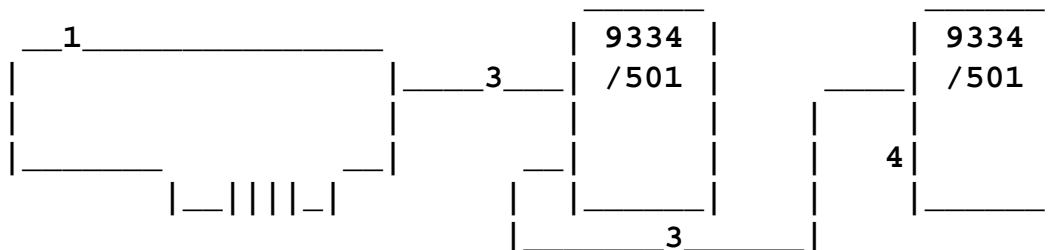
Cable Description	FC	PN	Length
1- Cable Adapter-to-9334-500 8-bit narrow	2926	52G4232	1.5m
Cable Adapter-to-9334-500 8-bit narrow	2907	88G5755	2.38m
2- Terminator 50-pin Low Density FPT-18+..		52G4260	

- 9334-500
- o Is not for Models 9xx
 - o Can contain up to 6 SCSI devices (Disks, Tape Drive, CD-ROM)
 - o Max Disks: 670mb(4)/857mb(4)/1.37gb(4)/2.4gb(3)/1gb(1)/2gb(4)
 - o Internal CDROM
 - o QIC Tape Drive: 150mb & 1.2gb
 - o 8MM-Tape Drive: 2.3gb & 5.0gb
 - o Is not supported in High Availability with SCSI-2 #2410

Last update: Aug 2002

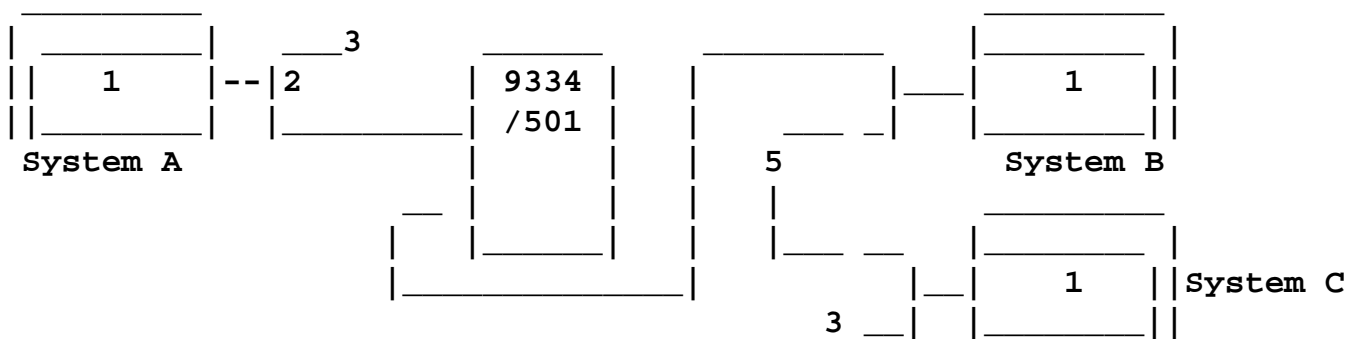
9334-501

Cabling example for SCSI-2 Differential Controller Type 4-2 (Not High Availability)



Part Description	FC#	PN	Length
1- Controller SCSI-2 Differential.....	2410	43G0176	
3- Cable Adapter-to-Device for Adapter_____	2935	67G0566	4.75m
_____	2937	67G0562	8.0m
3- Cable Device-to-Device.....	2939/9239	95X2498	2.0m
4- Terminator 50-pin lo-density Adapter1....	2847/9133	79X3795	

High Availability for SCSI-2 Differential Controller Type 4-2

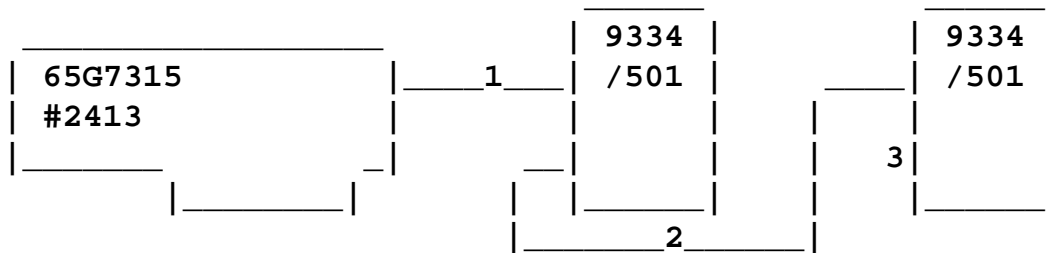


	FC	PN	Length
1- SCSI-2 Differential Fast/Wide Type 4-2.	#2410	43G0176	
2- Y-Cable, differential.....	#2422	52G7348	0.765m
3- Terminator.....	#2422	52G7350	
4- Cable Adapter-to-9334-501.....	#2935	67G0566	4.75m
_____	#2937	67G0562	8.0m
5- Cable System-to-System.....	#2423	52G7349	2.5m

NOTE: Daisy chaining of 9334-501 not permitted in High Availability

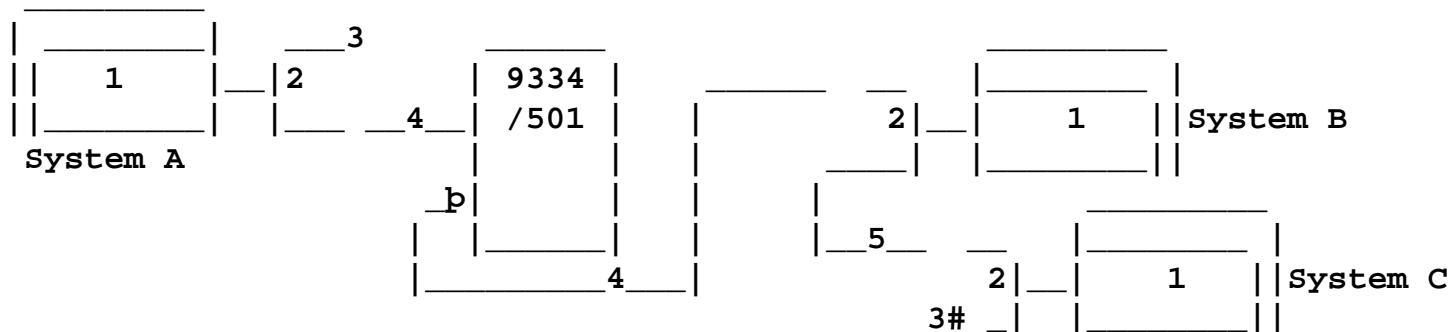
Cabling Example for SCSI-2 Differential Fast/Wide Adapter/A Type 4-6

(Not High Availabilily)



Cable Description		P/N	Length
1- Cable/ Adapter-to-9334-501 narrow 8-bit	2932/9232	52G4326	1.5m
	2934/9234	88G5758	2.38m
	2936/9236	88G5759	4.75m
	2938/9238	88G5760	8.0m
2- Cable/9334-501-to-9334-501 (8-bit).....	2939/9239	95X2498	2.0m
3- Terminator 50-pin narrow bus 8-bit.....	2847/9133	87G1356	N/A

High Availability for SCSI-2 Differential Fast/Wide Type 4-6



	FC	PN	Length
1- SCSI-2 Differential Fast/Wide Type 4-6.	#2413	65G7315	
2- Y-Cable, system 8-bit differential.....		52G4349	0.765m
3- Terminator.....		52G7350	
4- Cable Adapter-to-first 9334-501.....	#2935	67G0566	4.75m
	|.. #2937	67G0562	8.0m
5- Cable System-to-System.....	#2423	52G7349	2.5m

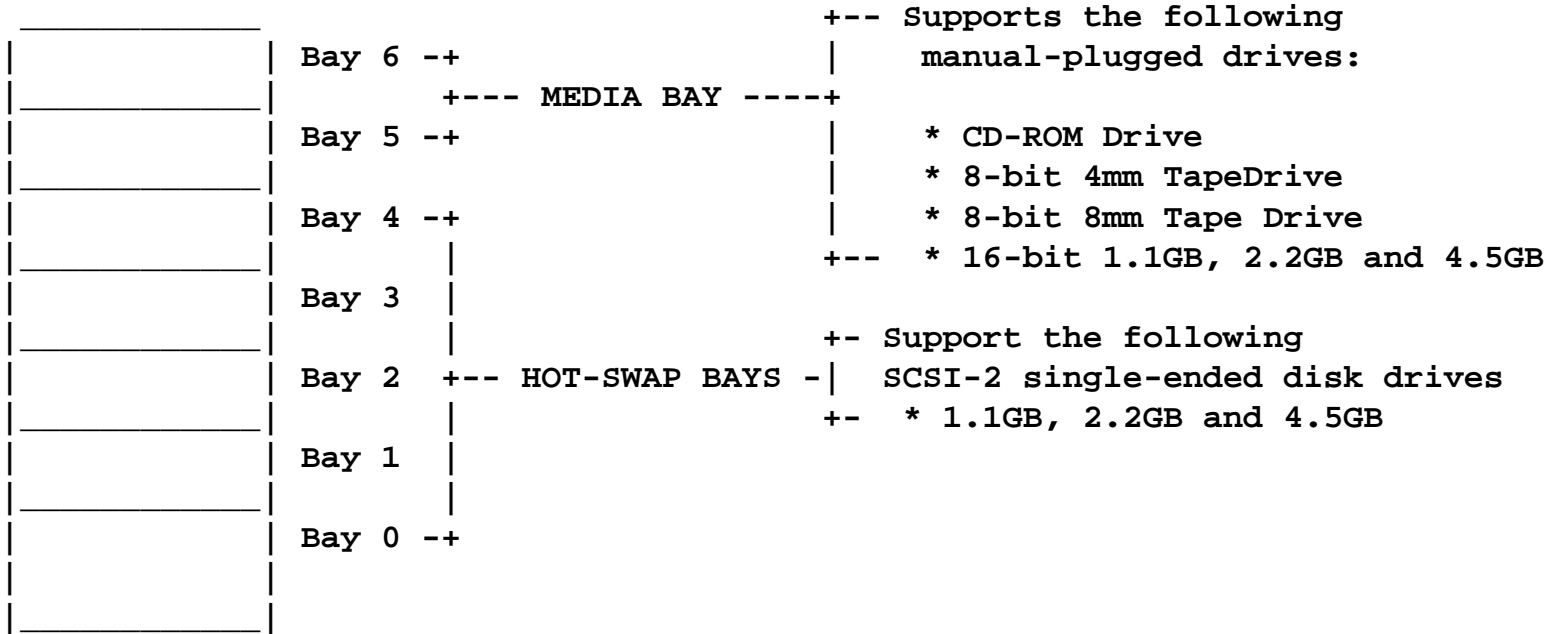
NOTE: Daisy chaining of 9334-501 not permitted in High Availability

Devices Name	P/N	FFC	FC
5.0gb 8mm Differential Tape Drive.....	16G8492	914	#6547
1.0gb SCSI-2 Differential Disk Drive.....	6374682	913	#2565

2.0gb SCSI-2 Differential Disk Drive..... 86F0119 912 #2585

7131-105 SCSI Multi-Storage Tower

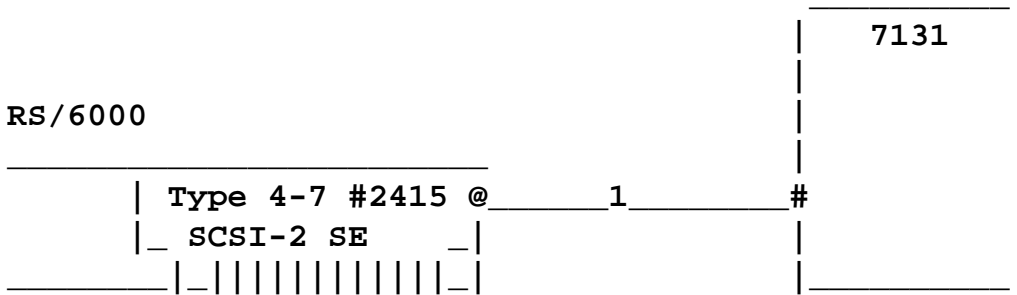
7131



The SE/DIFF card option is needed to attach the 7131 to a SCSI differential SCSI-2 adapter.

SE/DIFF Card.....	#2508	27H0838
1.1GB 16-bit Disk Drive.....		74G7006
2.2GB 16-bit Disk Drive.....		74G7007
4.5GB 16-bit Disk Drive.....		74G7008
9.1GB 16-bit Disk Drive.....		93G2972

Single-Ended F/W SCSI to 7131 (not Differential)



NOTE: The single ended version of the 7131 cannot be connected to any other device. The SCSI terminator is built into the 7131.
 (REF Adapters, Devices and Cable Information Guide SA23-2764)

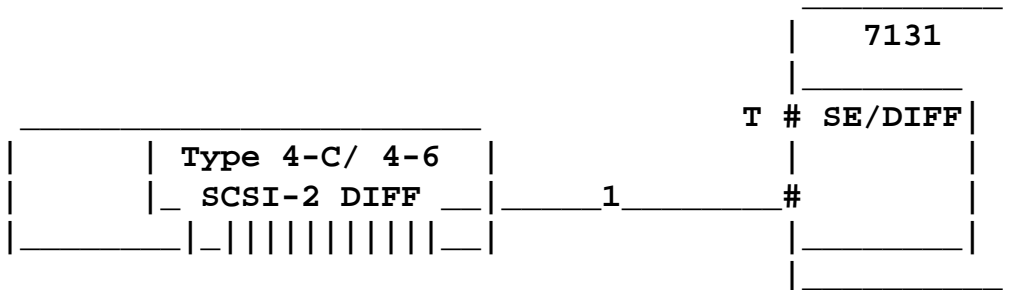
Description	FC	PN	Length
1- Cable Controller-to-Device:			

For 2-Connector Device Wide	#2887/9163	52G9501	1.5m
-----------------------------	------------	---------	------

NOTE: No Terminator required when attached to the SCSI single-ended

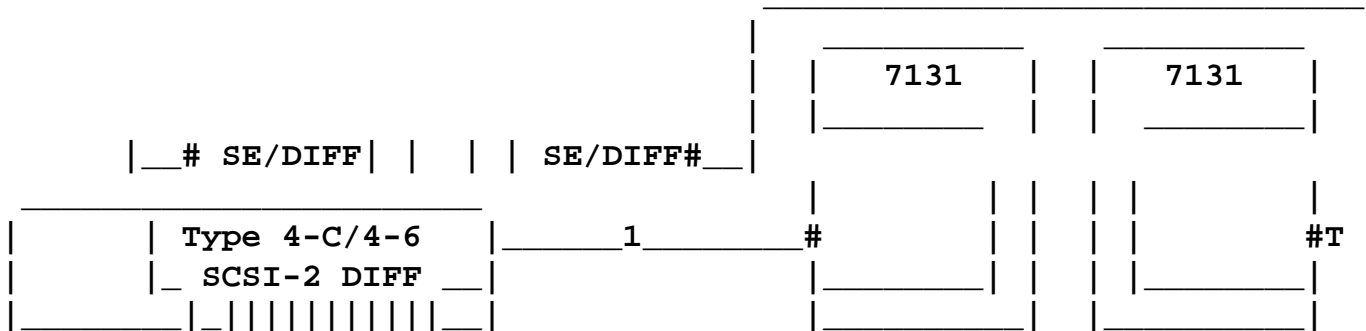
Differential F/W SCSI (#2412/2416) to one 7131

The SE/DIFF card option is needed to attach the 7131 to a SCSI differential

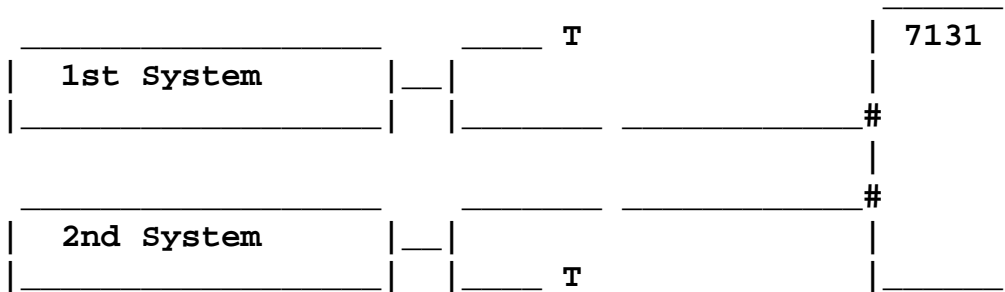


Cable Description	FC#	PN	Length
1- Adapter-to-7131 16-bit wide bus.....	2844/9130	52G4337	1.5m
T- Terminator 68-pin wide bus 16-bit....	2847/9133	61G8324	N/A

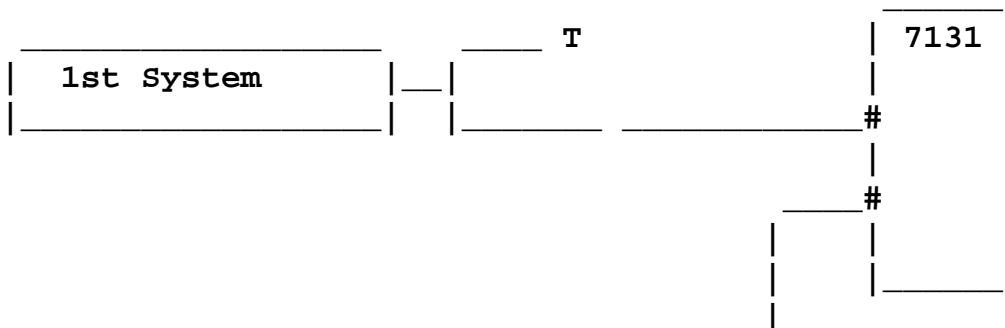
Differential F/W SCSI (#2412/2416) to two 7131s

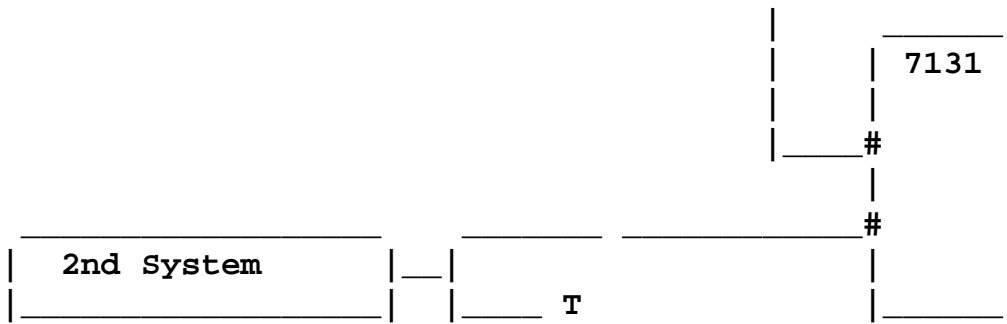


Cable Description	FC#	PN	Length
1- Adapter-to-7131 16-bit wide bus.....	2844/9130	52G4337	1.5m
2- Device-to-Device Wide Bus 16-bit.....	2845/9131	52G4291	0.6m
	2846/9132	52G4233	2.5m
	2885/9161	88G5749	4.5m
	2870/9146	88G5747	12.0m
	2869/9145	88G5748	14.0m
	2868/9144	88G5746	18.0m
T- Terminator 68-pin wide bus 16-bit....	2847/9133	61G8324	N/A



2 Systems Differential SCSI



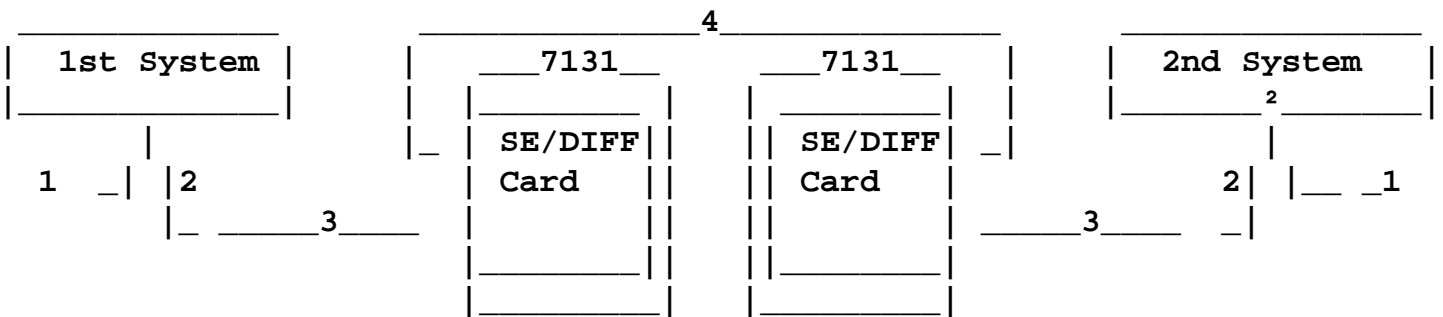


	Feature Codes	Part Number	Length
2- Cable Adapter-to-7131 wide.....	#2846/9132	52G4233	2.5m
	#2885/9161	88G5749	4.5m
	#2870/9146	88G5747	12.0m
	#2869/9145	88G5748	14.0m
	#2868/9144	88G5746	18.0m

PCI Adapter Cable

06H6036 1.0m

Cabling with SCSI-2 Differential F/W Adapter #2412/2416 Type 4-C/4-7



Part Description

FC

P/N

Length

1- Terminator 68-pin wide bus 16-bit	2426inclu	61G8324	N/A
2- Y-Cable Differential 16-bit Wide	2426	52G4234	0.94m
3- Adapter-to-Tower 16-bit Wide	2844/9130	52G4337	1.5m
4- Device-to-Device Wide Bus 16-bit	2882/9158	06H6036	1.0m
	2846/9132	52G4233	2.5m
	2885/9161	88G5749	4.5m
	2870/9146	88G5747	12.0m
	2869/9145	88G5748	14.0m
	2868/9144	88G5746	18.0m

7131-405 SSA Multi-Storage Tower

DISKS: 1.1GB... 99F7896
 2.2GB... 99F7897
 4.5GB... 99F7898
 9.1GB... 21H8734
SSA CARRIER ASM... 27H1047

EXTERNAL CABLES:

07H8985	"	"	"	1.0m
32H1465	"	"	"	2.5m
88G6404	"	"	"	5.0m
32H1466	"	"	"	10.0m
88G6406	"	"	"	25.0m

POWER SUPPLY: 26H9205

SUPPORT AIX 3.2.5 IX61972 U445948
 AIX 4.1. IX64327 U446870

7133 Microcode

Microcode Needed	Disk	Machine Type and Model	Device Specific (Z2)	Part Number (Not FRU !)	
8181/8190	Scorfire 4.5GB	DFHC	RAMSC0XX	89H4941	
	Scorpion 9.1GB	DCHC	RAMSC0XX	89H4940	
8372 (1)	Starfire1	1GB	DFHC	RANST0XX	07H8230
		2GB	" "	" " " " " "	88G6400
		4GB	" "	" " " " " "	88G6401
8473 (2)	Starfire2		RANST0XX		

(1) Starfire1 are 1.1GB, 2.2GB and 4.5GB
lscfg lists them as 1GB 2GB and 4GB !

(2) 8473 new microcode package. Not required as this level is FUNCTIONALLY IDENTICAL to 8372 but has had a different level loaded at manufacture to accomodate an EPROM package.

7133-010 Parts

P/N	Size	Dim
-----	------	-----

Disks: SSA 07H8230	1.12GB	3.5'
SSA 02L7551 <--88G6197	2.25GB	3.5'
SSA 88G6199 <--89H4941	4.51GB	3.5'
	9.1 GB	3.5' Not supported in 7133-010

FC

Cables: 67G1246	3-way converter cable		
07H8985	SSA adapter-to-7133	1.0m	5010
32H1465	" "	"	2.5m 5025
88G6404	" "	"	5.0m 5050
32H1466	" "	"	10.0m 5100
88G6406	" "	"	25.0m 5250
07H9153	SSA Fiber Extender (pair)		5500
32H7049	Wrap Plug for		5500
07H9160	Power Control cable		
07H9163	Short stringh cable:	0.18m	

88G6202 Fan-and-power-supply assembly, 220 V ac/dc

7133-020 Parts

	P/N	Size	Dim	
Disks:	SSA 07H8230	1.12GB	3.5'	
	SSA 02L7551	2.25GB	3.5'	
	SSA 89H4941 (88G6401)	4.51GB	3.5'	
	SSA 88G6200, 89H4940.	9.1 GB	3.5'	
				FC
Cables:	67G1246	3-way converter cable		
	07H8985	SSA adapter-to-7133	1.0m	5010
	32H1465	" "	2.5m	5025
	88G6404	" "	5.0m	5050
	32H1466	" "	10.0m	5100
	88G6406	" "	25.0m	5250
	07H9153	SSA Fiber Extender	(pair)	5500
	32H7049	Wrap Plug for 5500		
Power Supply:	88G6202	220V (32H1698)		
Bypass cards:	25L5888	Upper left (4/5)		
	25L5889	Upper right (1/16)		
	25L5890	Lower left (8/9)		
	25L5891	Lower right (12/13)		

88G6203 Fan-and-power-supply assembly, -48 V dc

- Updated: 26 Jan 2000

7133-500 Parts

	P/N	Size	Dim
<hr/>			
Disks:	SSA 07H8230	1.12GB	3.5'
	SSA 02L7551	2.25GB	3.5'
	SSA 88G6199 <--- 89H4941	4.51GB	3.5'
Cables:	67G1245	3-way converter cable	
	31H7960	SSA adapter-to-7133-500	0.6m 31H7960
	07H8985	" "	1.0m
	32H1465	" "	2.5m
	88G6404	" "	5.0m
	32H1466	" "	10.0m
	88G6406	" "	25.0m
	07H9153	SSA Fiber Extender (pair)	5500
	07H9160	Power Control cable	
	07H9163	Short stringh cable	0.18m
Power Supply:	88G6202	(32H1698)	

7133-600 Parts

	P/N	Size	Dim	
Disks:	SSA 07H8230	1.12GB	3.5'	
	SSA 02L7551	2.25GB	3.5'	
	SSA 89H4941	4.51GB	3.5'	
	SSA 89H4940	9.1 GB	3.5'	
Cables:	67G1245	3-way converter cable		
	31H7960	SSA adapter-to-7133-500	0.6m	31H7960
	07H8985	" "	"	1.0m
	32H1465	" "	"	2.5m
	88G6404	" "	"	5.0m
	32H1466	" "	"	10.0m
	88G6406	" "	"	25.0m
	07H9153	SSA Fiber Extender (pair)	5500	
	07H9160	Power Control cable		
	07H9163	Short stringh cable	0.18m	
Bypass cards:	25L5888	Upper left (4/5)		
	25L5889	Upper right (1/16)		
	25L5890	Lower left (8/9)		
	25L5891	Lower right (12/13)		
	88G6202	Fan and power supply Asm	220V AC/DC	
	88G6203	Fan and power supply asm	-48 V DC	

Last Updated: 28 Jan 2000

7133-D40/T40 Parts

SSA Disks:

P/N	Capacity	RPM	FC
-----	----------	-----	----

09L1848, 09L1688, 09L4294.	4.5GB	7,200	
----------------------------------	-------	-------	--

09L1847 09L4295	9.1GB	7,200	
--------------------	-------	-------	--

34L7769, 34L6412, 09L1812.	9.1GB	10,020	#8509
----------------------------------	-------	--------	-------

09L1849, 09L4296.	18.2GB	7,200	
----------------------	--------	-------	--

34L8486, 34L7770, 34L6413.	18.2GB	10,200	
----------------------------------	--------	--------	--

34L7771, 34L6460, 34L6414. 09L1814.	36.4GB	7,200	
--	--------	-------	--

18P4052, 18P2200, 34L6476, 34L6475.	36.4GB	10200	
--	--------	-------	--

18P4620 72.8GB 10000 rpm

05J8006 Dummy

Cables:

08L7908	SSA adapter-to-7133-D40	1.0m
08L7909	" " "	2.5m
08L7910	" " "	5.0m
08L7911	" " "	10.0m
08L7912	" " "	25.0m
09L2120	SSA Fiber Extender	
08L7873	Power Control cable	
32H7046	Wrap cable	

Power Supply: 09L4299

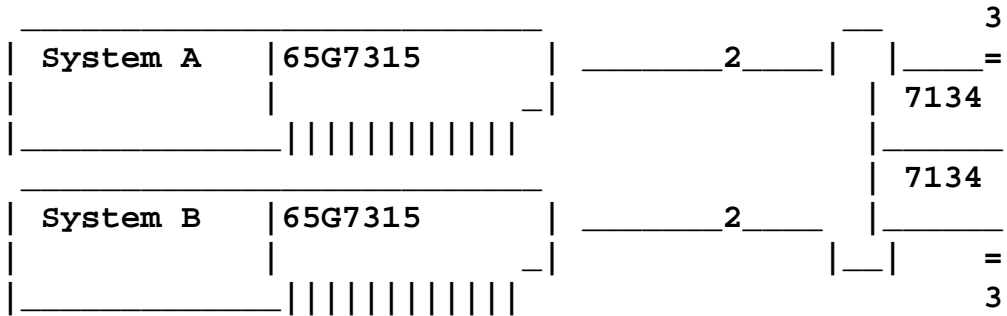
Controler Card: 05J7951

Remote Control: 67G5181

Updated Apr 30 2002 by BJ Croft

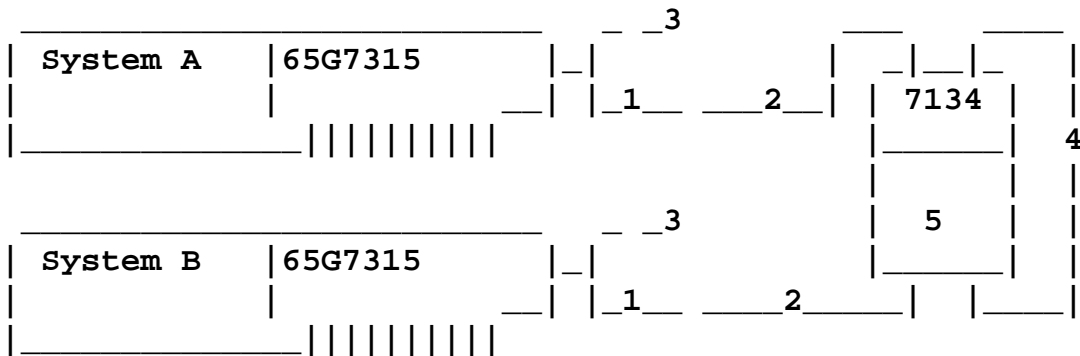
Steps to change a disk

Cabling for SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2414



Cable Description	FC	PN	Length
1- Interposer.....		50G0460	
2- Cable Adapter-to-7134 wide.....	#2902	88G5750	2.4m
	#2905	88G5749	4.5m
	#2912	88G5747	12.0m
	#2914	88G5748	14.0m
	#2918	88G5746	18.0m
3- Terminator, 68-pin, extr, wide 16-bit.		61G8324	

Cabling for SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2414



Cable Description	FC#	PN	Length
1- Y-Cable.....		52G4234	
2- Cable-to-7134 wide.....		88G5750	2.4m
		88G5749	4.5m
3- Terminator, 68-pin, extr, wide 16-bit.		61G8324	
4- Internal SCSI-2 Bus Linkage Cable Wide		67G3341	0.69m
5- 7134 Expansion Unit			0.69m

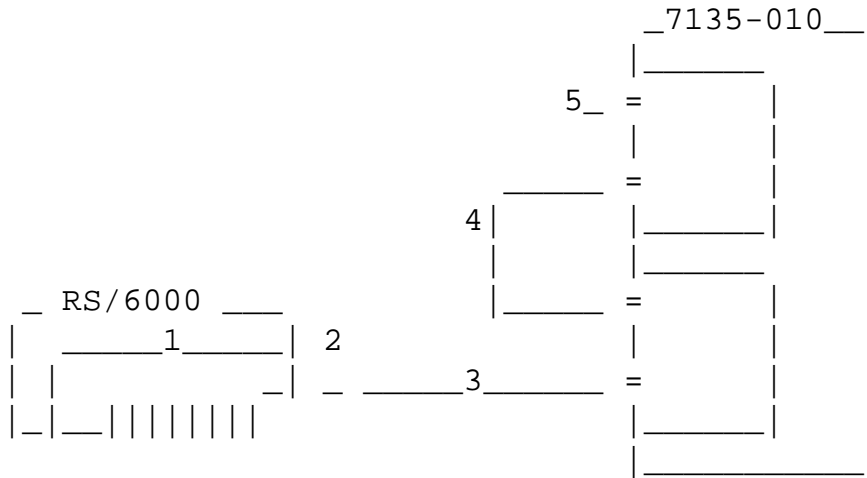
FRU part numbers for disk drive modules in 7134

DISK DRIVE MODULES	P/N
2.0G	67G3022
2.2G	67G3361
4.5G	88G7057

Require: AIX 3.2.4

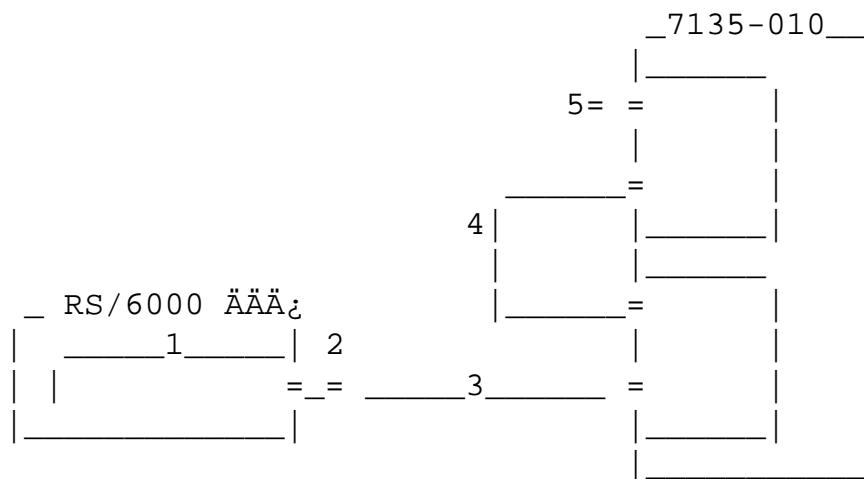
Level	Required Disks per Bank (minimum)
RAID-0	2 disks (base config) (2 x 1.3gb) disk stripping
RAID-1	2 disks (base config) 5 drives
RAID-3	3 or 5 (2 + parity disk or 4 + parity disk) RAW (no JFS) 5 drives
RAID-5	3 to 5 (equivalent of 1 disk for parity) no HACMP 5 drives 6 first drives to 1st SCSI Diff Ctrl. 7 to 12 drives to 2nd SCSI Diff Ctrl 12 x 2gb disk total 24gb #4005 Minirack holds 1 7135 16 x 7135 can be configured for total 960gb Y-Cable Differential REACT software drives the controllers in the array #3050 Array Controller #9201 Cable 0.6m Diff SCSI or #9205 5m #2420 SCSI Diff Term Removed

Cabling for SCSI-2 Differential High-Performance - Type 4-2 #2420
Dual-Array Controller - Single Adapter - Single Host



Description	FC	P/N	Length
1- SCSI-2 Diff Controller Type 4-2	#2420	43G0176	
2- Interposer 68-pin to 50-pin interface	#2919	67G8323	
3- Cable, array-controller-to-adapter	#2902/9202	67G1260	2.4m
	#2905/9205	67G1261	4.5m
	#2912/9212	67G1262	12.0m
	#2914/9214	67G1263	14.0m
	#2918/9218	67G1264	18.0m
4- Cable, Array-Ctrl-to-Array-Ctrl.....	#2901/9201	67G1259	0.6m
5- Terminator Differential 68-pin.....		61G8324	

Cabling for SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2416
Dual-Array Controller Single Adapter



Description	FC	P/N	Length
1- SCSI-2 Diff Fast/Wide Ctl Type 4-6	#2416	65G7315	

2- Interposer Wide 16-bit	#2920	50G0460	
3- Cable, array-controller-to-adapter	#2902/9202	67G1260	2.4m
	#2905/9205	67G1261	4.5m
	#2912/9212	67G1262	12.0m
	#2914/9214	67G1263	14.0m
	#2918/9218	67G1264	18.0m
4- Cable, Array-Ctrl-to-Array-Ctrl	#2901/9201	67G1259	0.6m
5- Terminator differential 68-pin		61G8324	

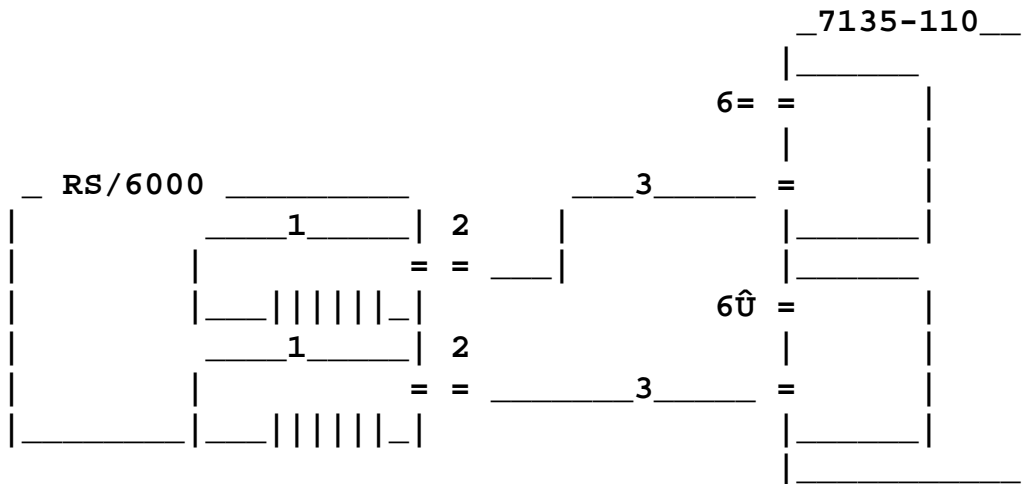


7135-110

DISK MODULES	P/N
1.3GB	67G5069
2.0GB	67G5070
2.2GB	07H7536
4.5GB	07H7537

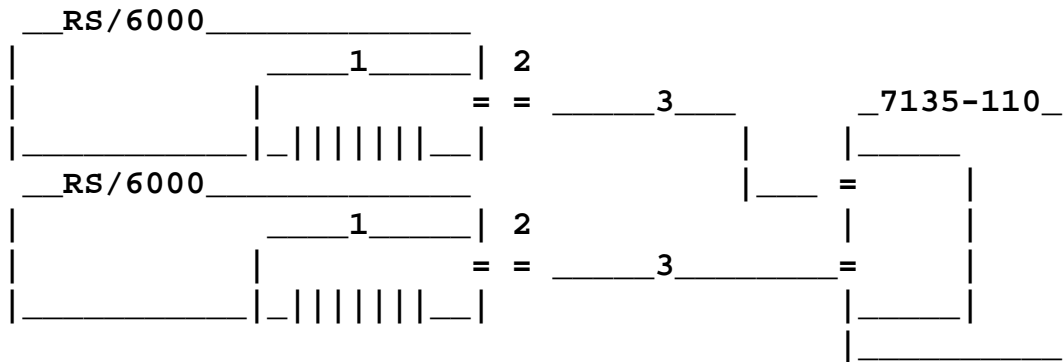
HIGH-AVAILABILITY

Cabling for SCSI-2 Differential I/O Controller - Type 4-2 #2420
 and SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2416
 Dual-Array Controllers - Dual Adapters - Single Host



HIGH-AVAILABILITY

Cabling for SCSI-2 Differential I/O Controller - Type 4-2 #2420
 and SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2416
 Single-Array Controllers - Single Adapters - Dual Host

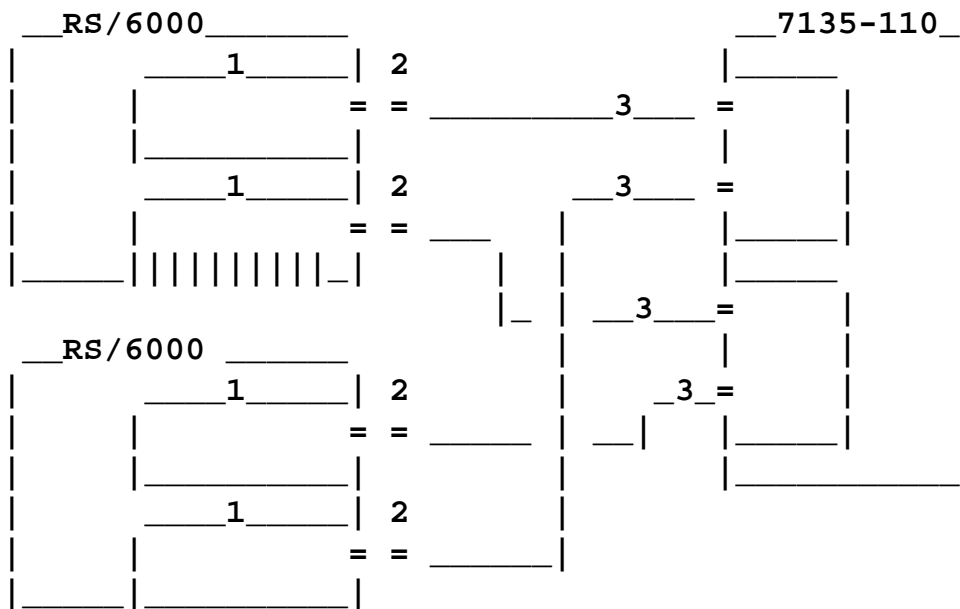


(Optional to 2) 5
 |

 T 6

HIGH-AVAILABILITY

**Cabling for SCSI-2 Differential I/O Controller - Type 4-2 #2420
 and SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2416
 Dual-Array Controllers - Dual Adapters - Dual Host**

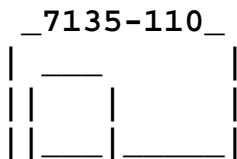


(Optional to 2) 5
 |

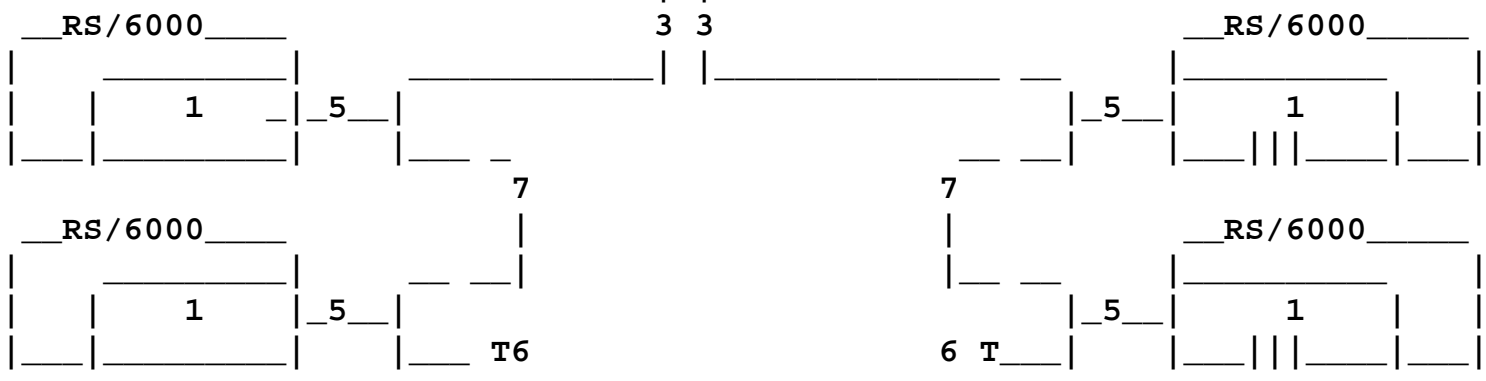
 T 6

HIGH-AVAILABILITY

**Cabling for SCSI-2 Differential I/O Controller - Type 4-2 #2420
 and SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2416
 Single-Array Controllers - Multiple Hosts**

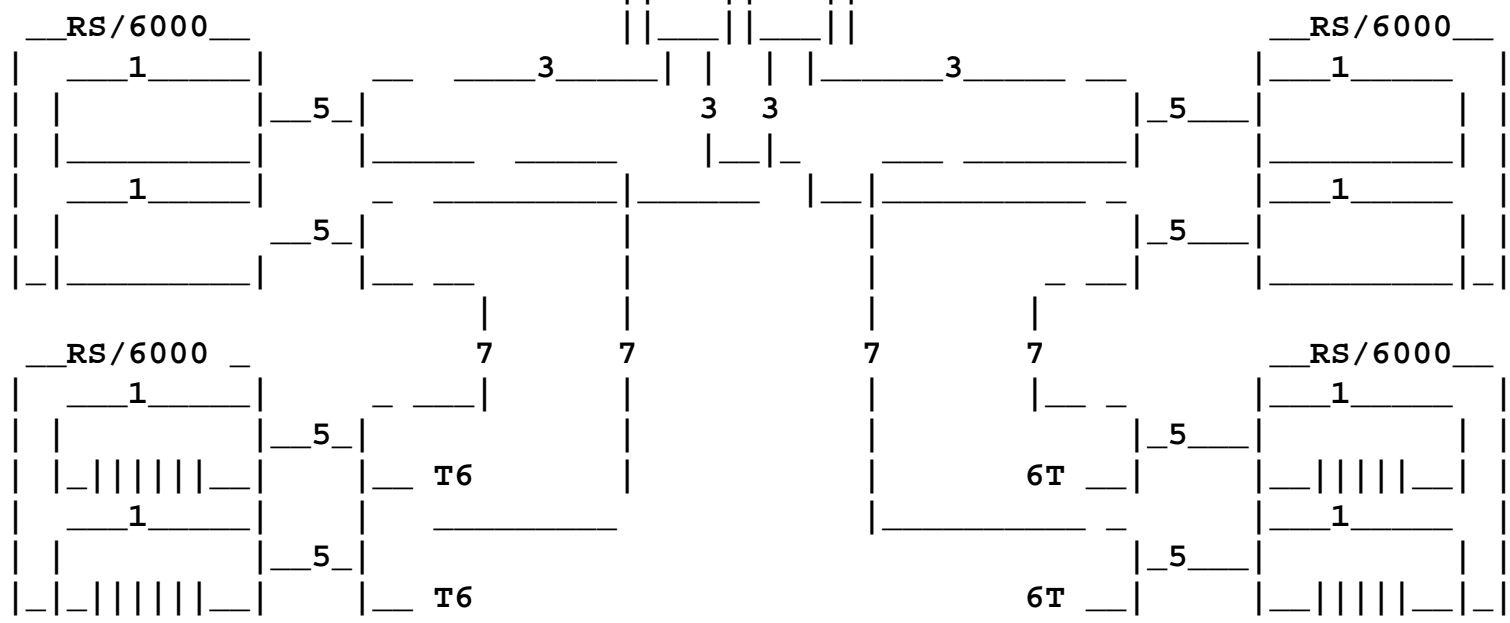
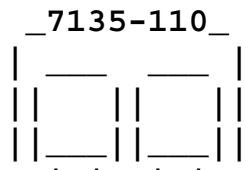


3 3



HIGH-AVAILABILITY

**Cabling for SCSI-2 Differential I/O Controller - Type 4-2 #2420
 and SCSI-2 Differential Fast/Wide Adapter/A - Type 4-6 #2416
 Dual-Array Controllers - Multiple Hosts**



Cable Description	FC	PN	Length

1- SCSI-2 Differential Controller Type 4-2	#2420	11H2447	N/A
or			
SCSI-2 Differ. Fast/Wide Ctrlr Type 4-6	#2416	11H3599	N/A
2- Interposer 68pin-to-50pin interface	#2919	61G8323	
for use with SCSI-2 Type 4-2 #2420			
or			
Interposer 68pin-to-68pin 16bit Wide	#2920	50G0460	
for use with SCSI-2 Type 4-6 #2416			
3- Cable to 7135	#2902/9202	67G1260	2.4m
	#2905/9205	67G1261	4.5m
	#2912/9212	67G1262	12.0m
	#2914/9214	67G1263	14.0m
	#2918/9218	67G1264	18.0m
4- Cable, Array-Ctrl-to-Array-Ctrl 16bit	#2901/9201	67G1259	0.6m
5- Y-Cable, Diff Wide High-Avail config	#2426	52G4234	0.76m
6- Terminator Diff Wide 16-bit 68-pin		61G8324	
7- Cable, System-to-system Wide	#2845/9131	52G4291	0.66m
	#2846/9132	52G4233	2.5m

Cable Description	FC	PN	Length
Array controller card Model 110		67G5118	N/A



7135-210

Array Controller 16MB 31H7732

[ECA010 Package from AIXTOOLS](#)

7137

Click [here](#) to go to the 7137 Web site software

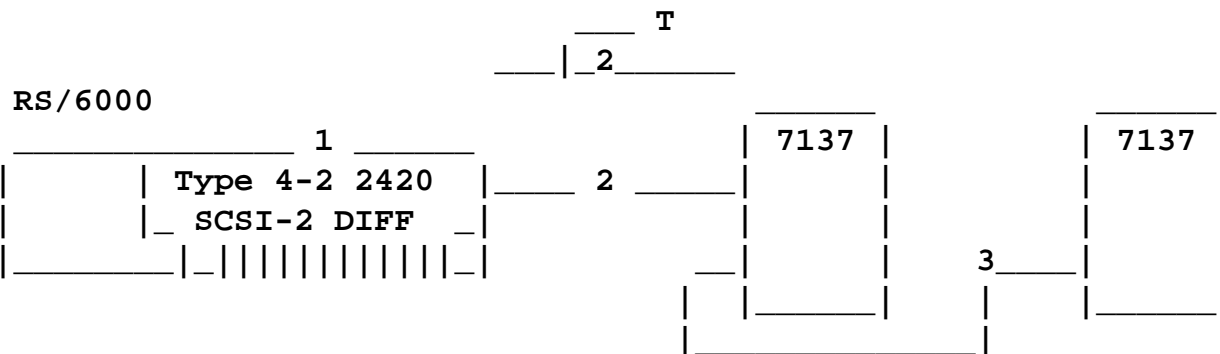
	Disk	P/N	F/C
Rack-mountable Models:			
7137-512.....	1GB	74G7770	1025
7137-513.....	2GB	21H4149	1035
7137-514.....	4GB	75G4933	1045
7137-515.....	9GB	21H4151	1085

Desktop Models:			
7137-412.....	1GB	74G7770	1025
7137-413.....	2GB	75G4932	1035
7137-414.....	4GB	75G4933	1045
7137-415.....	9GB	21H4151	1085
7137-F3L.....	2.2GB	93H9004	
	4.5GB	93H9005	

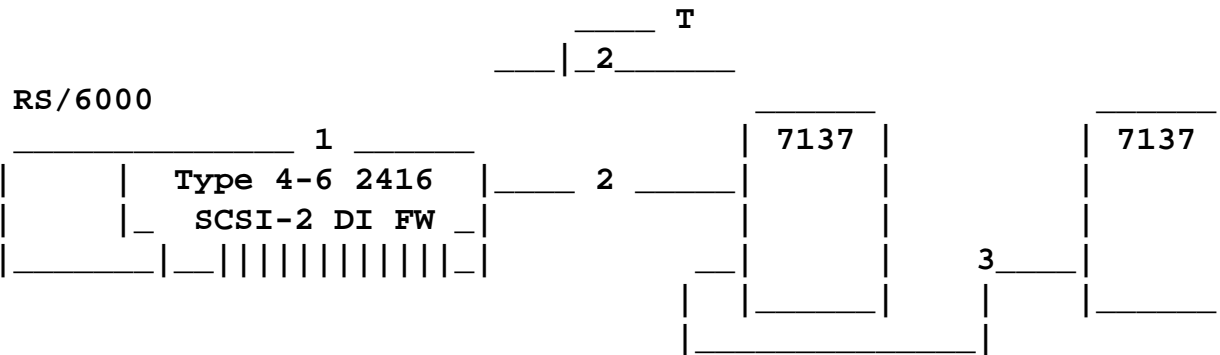
SCSI adapters: 2416 SCSI-2 Differential F/W
2420 SCSI-2 Differential

Write Cache 1MB 17G2049
4Mb 74G7719

Control Panel Asm 7137-4xx..... 07H8226 (whole)
4xx and 5xx 74G7742 (card)
Controller Card w/o Write Cache.... 75G5059
Power Module..... 21H4093 <-- 74G7691
Fan..... 74G7797



	FC	PN	Length
1- SCSI-2 Differential Type 4-2.....	#2420	43G0176	
2- Cable Differential	#2002	46G4157	
Y-Cable, Differential 8-bit.....	#2422	52G7348	0.765m
Terminator.....	#2422	52G7350	
3- Cable 7137 to 7137.....	#3001	21F9046	



Part Description	FC	P/N	Length
1- SCSI-2 Differential Controller Type 4-6.	#2416	65G7315	
2- Cable Differential	#2004	46G4219	
Y-Cable wide.....	#2426	52G4234	0.94m
T- Terminator wide.....	#2426inc	61G8324	
3- Cable 7137 to 7137.....	#3001	21F9046	

Feature 2014 consists of following parts:

- 75G5028, Cable assembly 4.0m
- 70G3673 Diskette ship group:
 - P/N 70G3671 install diskette
 - P/N 20H2301 microcode diskette
- 75G5022 7137/3514 Disk Array Subsystem: RS/6000 System Attachment Guide

7190 SCSI HOST to SSA ATTACHMENT

Links to other Web Sites:

[7190 Internal Home Page by Dave Adams](#)

97-02-25 7190 100 SCSI HOST/SSA LOOP ATTACHMENT

[Canadian Announcement Letter A97-0196](#)

98-04-21 7190 200 ULTRASCSI HOST/SSA LOOP ATTACHMENT

[Canadian Announcement Letter A98-0462](#)

Manuals:

7190-200 UltraSCSI Host to SSA Attachment Installation and User's Guide GC26-7256
116 pages

7190-100 SCSI Host to SSA Attachment Installation and User's Guide GC26-7195 120
pages

Updated: Jan 2003 by Bruno Croft



4.5GB DISKs

VPD typical example:

pdisk0 20-58-P 4GB SSA F Physical Disk Drive

Manufacturer.....IBMSSA
Machine Type and Model.....DFHCC4C
Part Number.....27H1698
ROS Level and ID.....9190
Serial Number.....6816957D
EC Level.....488651
Device Specific.(Z2).....RAMSC091
Device Specific.(Z3).....99F7898
Device Specific.(Z4).....97245



4.5GB DISKS

Starfire

Typical VPD example:

pdisk0-16 4GB SSA C Physical Disk Drive

```
Manufacturer.....IBM
Machine Type and Model.....DFHCC4B1
Part Number..... 88G6401
ROS Level and ID.....6559
Serial Number.....68A69359
EC Level.....0123456789
Device Specific.(Z2).....RAMST059
Device Specific.(Z3)..... 88G6401
```

03/19/98



4.5GB DISKs

Scorfire

Typical VPD example:

```
pdisk10          00-13-P          4GB SSA C Physical Disk Drive

Manufacturer.....IBM
Machine Type and Model.....DFHCC4B1
Part Number.....88G6199
ROS Level and ID.....9190
Serial Number.....13612883
EC Level.....488651
Device Specific.(Z2).....RAMSC091
Device Specific.(Z3).....88G6199
Device Specific.(Z4).....98175
```

pdisk4 **20-68-14C1-01-P** **SSA Physical Disk Drive (9100 MB)**

Manufacturer..... IBM
Machine Type and Model..... DGHC09B
Part Number..... 09L4295
ROS Level and ID..... 9902
Serial Number..... 681CBD52GA
EC Level..... F23980
Device Specific.(Z2)..... CUSM2902
Device Specific.(Z3)..... 09L4295
Device Specific.(Z4)..... 98330

>lscfg -vl pdisk15

DEVICE	LOCATION	DESCRIPTION
pdisk15	00-03-P	9.1GB SSA C Physical Disk Drive

Manufacturer.....IBM
Machine Type and Model.....DCHC09B1
Part Number.....89H4940
ROS Level and ID.....9595
Serial Number.....68058570
EC Level.....48861
Device Specific.(Z2).....RAMSC095
Device Specific.(Z3).....89H4940
Device Specific.(Z4).....96294

VPD:

Manufacturer.....IBM
Machine Type and Model.....DRVC18B
Part Number.....09L1813
ROS Level and ID.....0011
Serial Number.....6800901FHK
EC Level.....E32032
Device Specific.(Z2).....CUSHA011
Device Specific.(Z3).....09L1813
Device Specific.(Z4).....99032

Created: 17 Jan 2000 - Bruno Croft

VPD:

Manufacturer.....IBM
Machine Type and Model.....DGHC18B
Part Number.....09L4296
ROS Level and ID.....9908
Serial Number.....6817B634GK
EC Level.....F23980
Device Specific.(Z2).....CUSMA908
Device Specific.(Z3).....09L4296
Device Specific.(Z4).....99215

Created: 27 Dec 1999 - Bruno Croft

VPD:

Manufacturer.....IBM
Machine Type and Model.....DMVC18G
Part Number.....09P0620
ROS Level and ID.....0060
Serial Number.....F810A8DF7A
EC Level.....F24496
Device Specific.(Z2).....CUSNA060
Device Specific.(Z3).....09P0620
Device Specific.(Z4).....01095

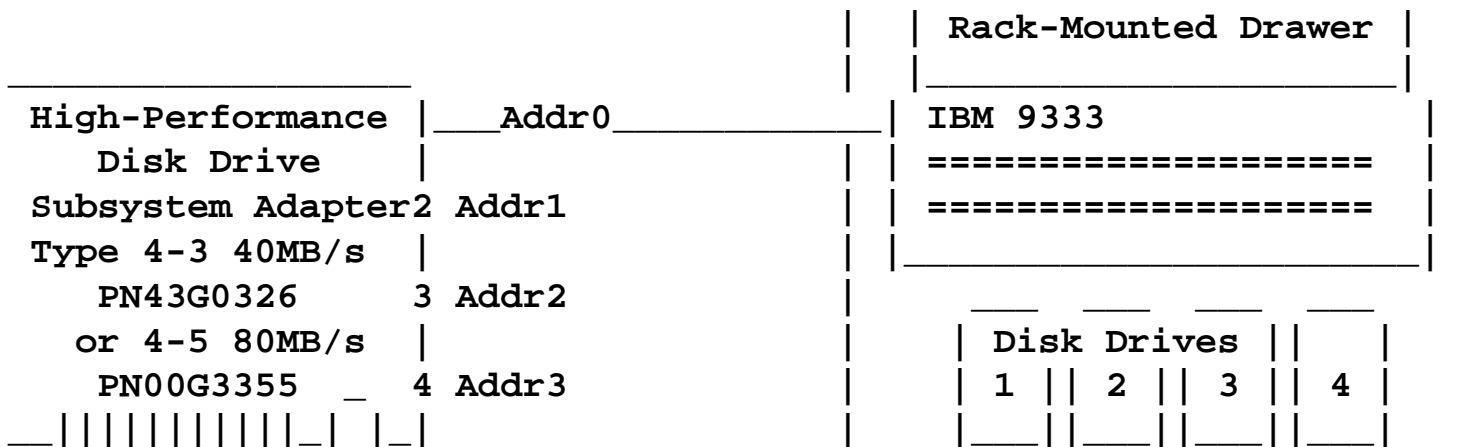
Created: Jan 30 2002 - Bruno Croft

9333 Model 010 High-Performance Disk Drive Subsystem

9333-010: Rack-mounted drawer.

Can contain up to 4 serial-link disk-drive modules.

4 x 9333-010 drawers can be connected to one adapter.



Serial Disk Drives

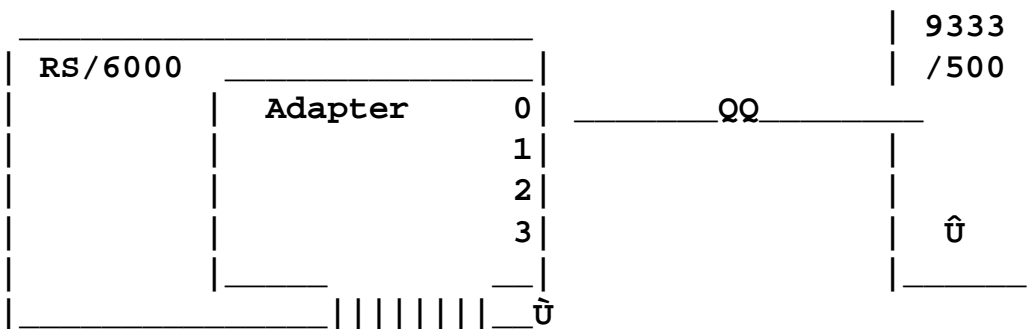
857MB Disk-drive..... PN95X2431
 Logic card + Subframe.. PN70F9042

1.07GB Disk-drive..... PN69F9821
 Logic card + Subframe.. PN07G5173

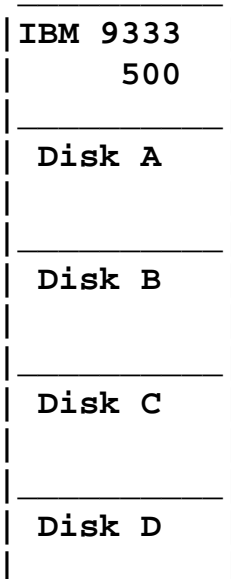
9333-500

(Mod 340, 350 and 5xx only AIX 3.2 required)

* Can contain up to 4 serial-link disk-drive modules.
 4 x 9333-500 can be connected to one adapter (Max)

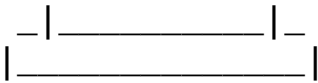


	Type	Data Xfer Rate	FC	P/N
High Performance Disk Drive Subsystem Adapter	4-3	40mb/s	#6210	52G1071
	4-5	80mb/s	#6211	00G3357
	4-8	40/80mb/s	#6212	88G3629
Serial Disk Drives & Logic	857MB	Disk-drive.....		95X2431
		Logic card + Subframe.....		70F9042
	1.07GB	Disk-drive (no logic and frame)..		69F9821
		Logic card + Subframe.....		07G5173

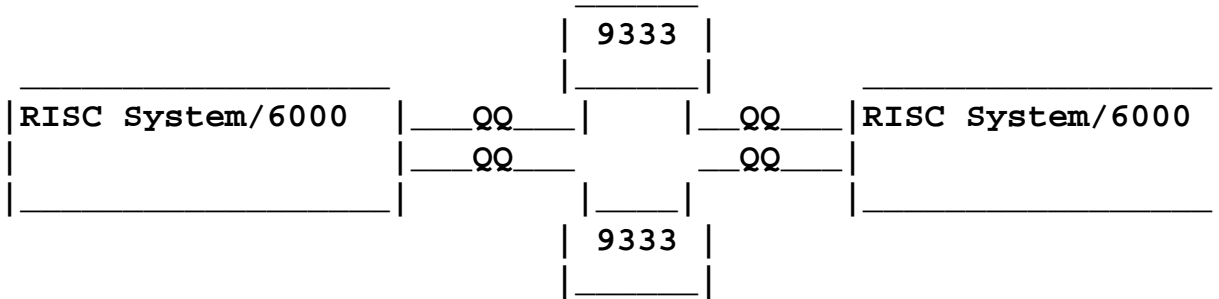


Cables:

QQ- Serial link attachment	07G4859	10m	33ft
QQ- Serial link attachment	07G4860	3m	10ft



High-Availability Configuration

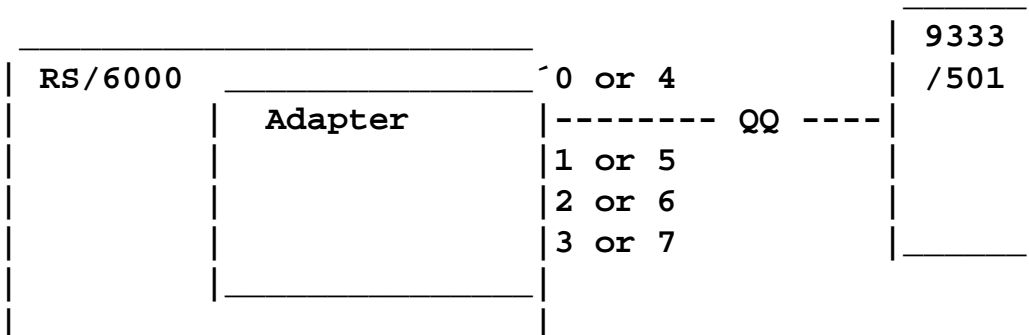


Cables:

- QQ- Serial link attachment 07G4859 10m 33ft
- QQ- Serial link attachment 07G4860 3m 10ft

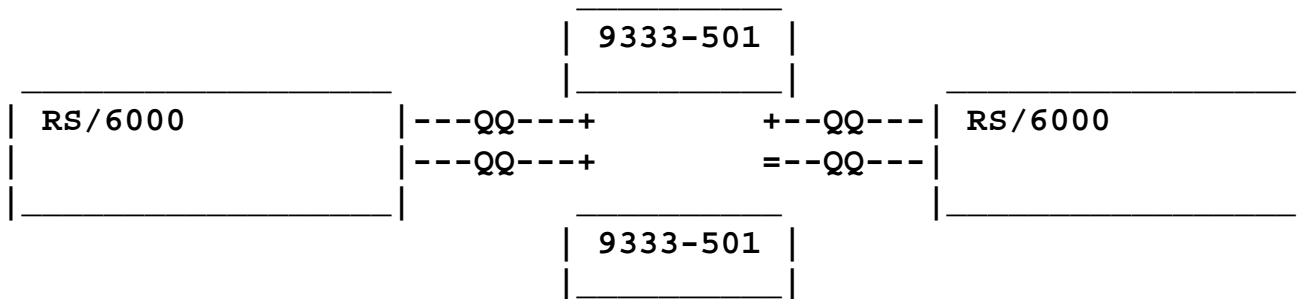
9333-501

(Mod 340, 350, 360, 370, 5xx and 700 - AIX 3.2.4 required)



-----	Type	-----	Data Xfer Rate	-----	FC	-----	P/N	-----
High Perf Subsystem Adapter	4-8		40/80mb/s		#6212		88G3629	
Disks:	2.0GB Serial-Link Disk-drive.....						59G1317	
	Logic card + Subframe.....						???????	

High-Availability Configuration



Cables:

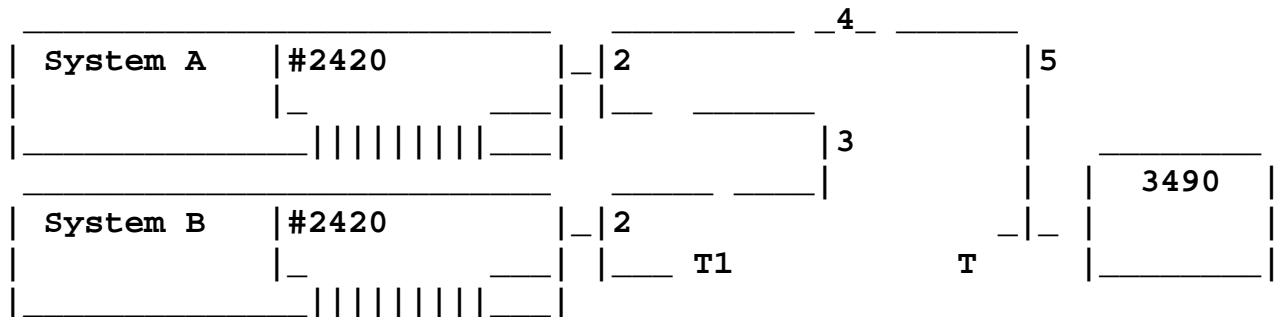
QQ-	Serial link attachment	07G4859	3m	10ft
QQ-	Serial link attachment	07G4860	10m	33ft

3490

NOTE: There is only 1 SCSI connector on the 3490 model E01 and E11

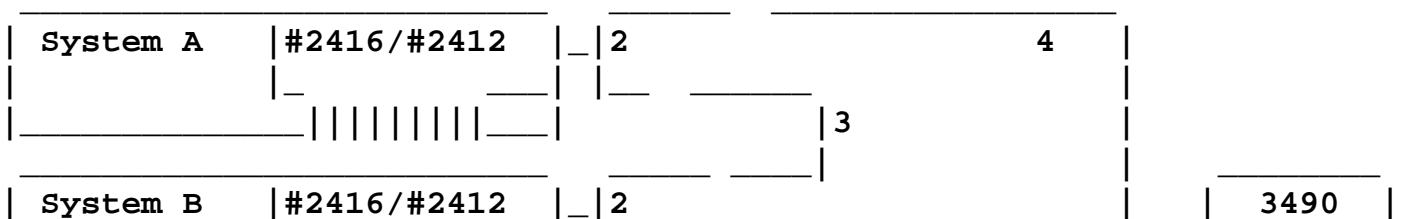
Click [here](#) for Atape and atldd

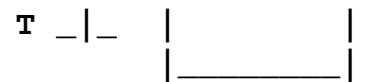
Cabling 3490E E01/E11 to #2420 Narrow Differential Adapter



Cable Description	FC#	P/N	Length
1- Differential Terminator.....		52G7350	
2- 8-bit Narrow Differential Y-Cable....	2422	52G7348	
3- 8-bit Narrow Differential Cable.....	2423	52G7349	2.5m
4- Cable Interposer 1byte-to-2byte.....	2919	61G8323	
5- Differential SCSI-2 F/W Cable.....	5105	62G1023	0.5m
	5145	62G1018	4.5m
	5112	62G1019	12.0m
T- Differential Terminator.....	N/A	61G8324	

Cabling 3490E E01/E11 to #2416/2412 Fast/Wide Differential Adapter





Cable Description	FC#	PN	Length
1- Differential Terminator 16-bit Wide..		61G8324	
2- 16-bit F/W Differential Y-Cable.....	2426	52G4234	0.94m
3- Differential SCSI System-System Cable	2424	52G4291	0.6m
	2425	52G4233	2.5m
4- Differential SCSI-2 F/W Cable.....	5128	62G1017	2.8m
	5118	62G1020	18.0m
	5125	62G1021	25.0m
T- Differential Terminator.....	N/A	61G8324	

Requires the driver atldd.driver

3570

Click [here](#) for Atape links

Cleaner Cartridge..... 05H2463

Data Cartridges:

Data Fast Access Linear Tape C-format XL.... 08L6663

Data Fast Access Linear Tape Model B..... 05H2462

Model C..... 08L6187

Replacement Label Kit..... 05H9393

Cartridge Magazine..... 49G6598

Manuals:

Operator Guide..... GA32-0345

Introduction and Planning... GA32--348

Maintenance Information B-Series Models.... P/N 05H9395 EC C70545

Cables:

P/N	FC	LENGTH
49G6456	5205	0,5m 2ft
49G6457	5245	4,5m 15ft
49G6458	5212	12m 39ft
49G6459	5218	18m 59ft

Terminator:

61G8324

3590

Requires the Atape device driverClick [here](#) for Atape links

Cables

FC	Cable Length	P/N	Description
5106	0.6 meter	05H4644	Device-to-device
5128	2.8 meter	05H4647	Device-to-host
5134	3.4 meter	05H4645	Device-to-device
5138	4.0 meter	05H4646	Device-to-device
5145	4.5 meter	05H4648	Device-to-host
5112	12.0 meter	05H4649	Device-to-host
5118	18.0 meter	05H4650	Device-to-host

Data Cartridge..... 05H4434
 Cleaner Cartridge.... 05H4435
 Cartridge Magazine... 39F4762

Model B11 has automatic cartridge facility (ACF)

Model B11 and B1A support the IBM 3590 High Performance Cartridge Tape 1/2-inch formatted cartridges in read and write mode.

Model B11

- 3590 tape drive with an ACF
- Integrated controller
- 2 SCSI-2 Diff F/W adapter ports
- Supports a RS/6000 or SP2 in a 7202 rack, 7015-R00 rack or customer-provided rack.
- Up to 4 Model B11 drives per 7202, 7015-R00

Model B1A

- 3590 tape drive without ACF
 - Integrated controller
 - 2 SCSI-2 Diff F/W adapter ports
 - Installs in a 3494 Tape Library Dataserver.
-

3590 Summary of Characteristics

Display Panel	Specifications
Media	3590 High Performance Cartridge Tape
Cartridge Loader	10-cartridge capacity ACF
Data Capacity	10GB per uncompact cartridge
Device Data Rate	9MB per second
Data Transfer Rate	17MB per second via ESCON
(Maximum)	20MB per second via SCSI
Data Search Rate	166MB per second
Tape Speed	2 meters (79 inches) per second
Search/Rewind Speed	5 meters
Average Cartridge Load Time	16 seconds
Full Cartridge Rewind Time	2 seconds
Maximum Cartridge Rewind Time	60 Seconds

Compression and Block Size considerations:

(I will review the following information as new information arrive.
Let me know of any important example on this subject.)

From the results of searches, it seems to be a loss of time to have both software and hardware compression. It's one or the other.

The 3590 tape drive has a parameter for hardware compression in the characteristics of the tape drive (smit). It is suggested to disable software compression in the command used for backup (software compression).

Example: savevg has a -p flag to disable software compression since AIX 4.2

ADSM:

I have talked to ADSM support and they also suggests to disable software compression in the ADSM backup on a 3590.

This is not a absolute recommendation. The ADSM support told me that if a ADSM client has a faster CPU and memory than the ADSM server, it would be better to set software compression. Software compression being done by the client while hardware compression is done by the server (the one that own Atape).

SCSI INFO

PCI SCSI controllers for the pSeries

Type	Controller	FFC	P/N	Feature Code
4-A	SCSI-2 SE FW.....	746	93H8406	6208
4-B	SCSI-2 DE FW.....	747	93H8407	6209
4-H	SCSI-2 FW RAID.....	751	08L1319	2493
4-K	SCSI SE Ultra.....	840	93H3809	6206
4-L	SCSI DE Ultra.....	2E6	40H6595	6207
4-R	SCSI 2-channel Ultra2.....	637	03N3606	6205
4-T	SCSI 3-channel Ultra RAID.....	667	01K7396	2494
4-U	SCSI Uni DE Ultra.....	2E6	11K0671	6204
4-X	SCSI 4-Channel Ultra3.....	66D	37L6892	2498
4-Y	SCSI 2-Channel Ultra3.....	2520	09P2544	6203

Technology Name	Maximum Cable Length (meters)	Maximum Speed (MBps)	Maximum Number of Devices

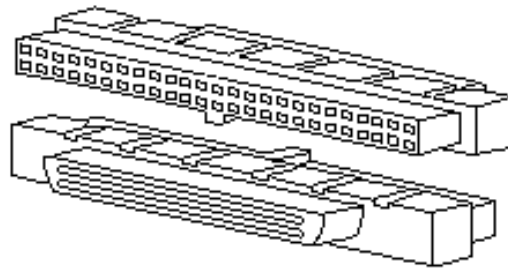
SCSI-1	6	5	8
SCSI-2	6	5-10	8 or 16
Fast SCSI-2	3	10-20	8
Wide SCSI-2	3	20	16
Fast Wide SCSI-2	3	20	16
Ultra SCSI-3, 8-bit	1.5	20	8
Ultra SCSI-3, 16-bit	1.5	40	16
Ultra-2 SCSI	12	40	8
Wide Ultra-2 SCSI	12	80	16
Ultra-3 (Ultra160/m)	12	160	16

Special Cabling Items:

External cable narrow Adapter to FW devices 59H2891 #2888, #9159,
#2883, #9164

(Example: 7204-139 to a #2410 Type 4-4)

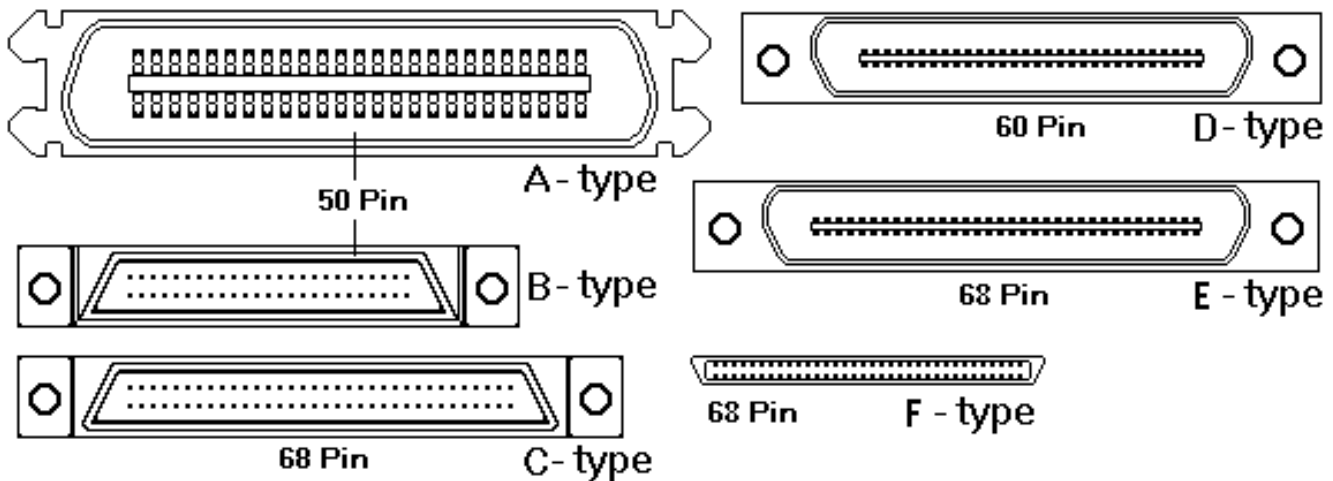
Interposer device 8-bit 50-pos to 68-pos Wide Internal Cable... 92F0324
This interposer is female-female. This is the opposite of 87G4587.



Interposer device 16-bit 68-pos to 50-pos Internal Cable..... 87G4587 FFC 704

This interposer is male-male and the opposite of 92F0324.

External SCSI - Cable Connector types (male)



Terminator Info

The 52G4260, marked SCSI-2, was released as a common replacement for all of the single-ended terminators. It replaces the FPT3 00G0968, the FPT18 43G0467 and the FPT18+ 51G7736. All of these terminators are still usable; new installations and field replacements will be supplied with the new 52G4260 terminator.

The 52G4259, marked SCSI-2, was released as a common replacement for all of the single-ended terminators. It replaces the FPT-3 00G2223, 51G7737 and the FPT18 43G0378. All of these terminators are still usable; new installations and field replacement will be supplied with the new 52G4259 terminator.

External SCSI Devices

Machine Type/Model	Bus Width	SE or Diff	Ports
7203-001	8-bit	Single-Ended	Single
7204-001	8-bit	Single-Ended	Single
7204-010	8-bit	Single-Ended	Dual
7204-112	8-bit	Single-Ended	Dual
7204-215	8-bit	Differential	Dual

7204-315	16-bit	Differential	Dual
7204-317	16-bit	Differential	Dual
7204-320	8-bit	Single-Ended	Single
7204-325	16-bit	Differential	Dual
7206-001	8-bit	Single-Ended	Single
7206-005	8-bit	Single-Ended	Dual
7207-001	8-bit	Single-Ended	Single
7207-011	8-bit	Single-Ended	Single
7207-012	8-bit	Single-Ended	Single
Machine Type/Model	Bus Width	SE or Diff	Ports
7208-001	8-bit	Single-Ended	Single
7208-011	8-bit	Single-Ended	Single
7209-001	8-bit	Single-Ended	Single
7209-002	8-bit	Single-Ended	Dual
7210-001	8-bit	Single-Ended	Single
7210-005	8-bit	Single-Ended	Dual
7210-010	8-bit	Single-Ended	Dual
7331-105	16-bit	Single-Ended	Dual
7331-205	16-bit	Differential	Dual
7332-005	8-bit	Single-Ended	Dual
7336-205	16-bit	Differential	Dual

last update March 2003



Cabling Integrated SCSI Adapter on PCI systems

SCSI

- [VHDCI Type \(7044\)](#)
- [68-p SCSI type 7025-F50 refer to 4-A](#)

SCSI-2 SE Fast/Wide PCI Adapter/A Type 4-A #6208 <-- #2408

AIX 4.1 and 4.2 filesets:

```
#6408 devices.pci.00100f00.xxx  SYM53C8xxA PCI SCSI I/O Controller Software
    devices.pci.00100100.xxx   Common Symbios PCI SCSI I/O Controller
                               Standard NCR53C810 SCSI Software
```

```
#2408 devices.pci.00100300.xxx
    PCI 16-bit SCSI I/O Controller
```

Early ship versions of 73H3562 may have type label 4-E instead of 4-A

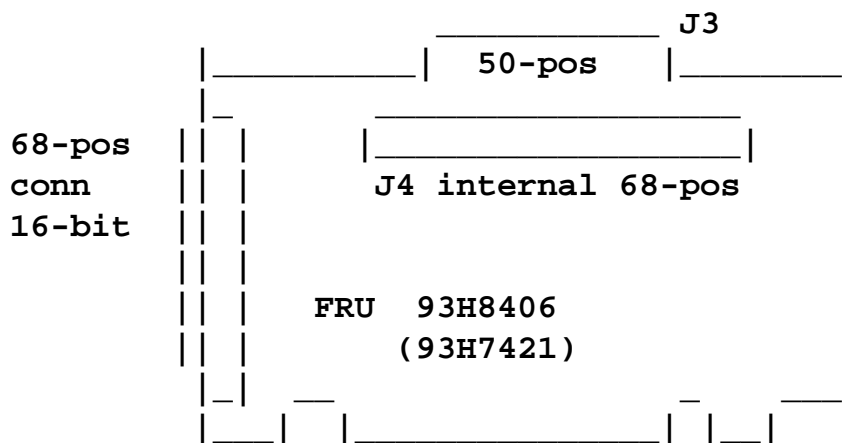
#2408 have been withdrawn and is now replaced by #6408 !

#2408 had Symbios 825 chip

#6408 has Symbios 825A chip (improved performance)

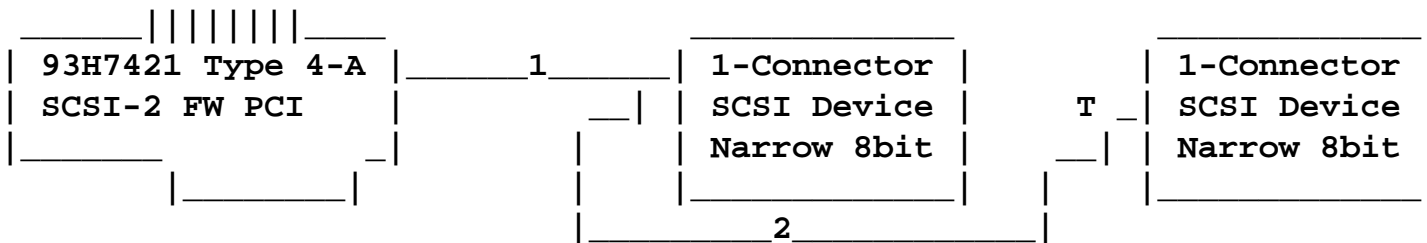
Last FRU version of #2408 was 11H8085

There is no downloadable microcode for this adapter



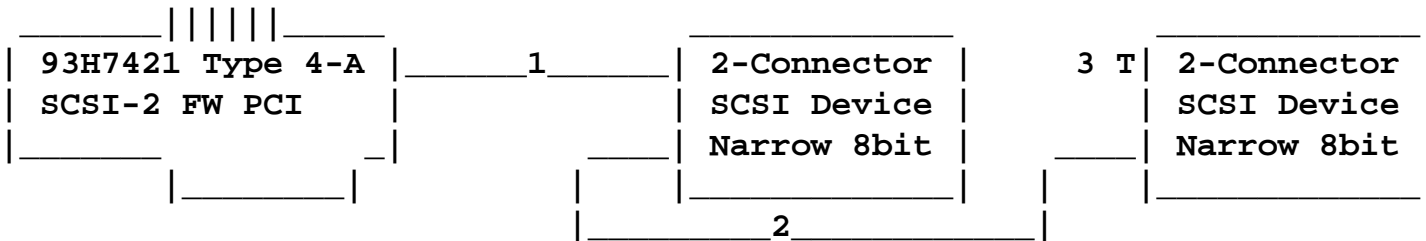
FRU: 93H8406, 73H3562, 11H8085

Cabling with narrow devices



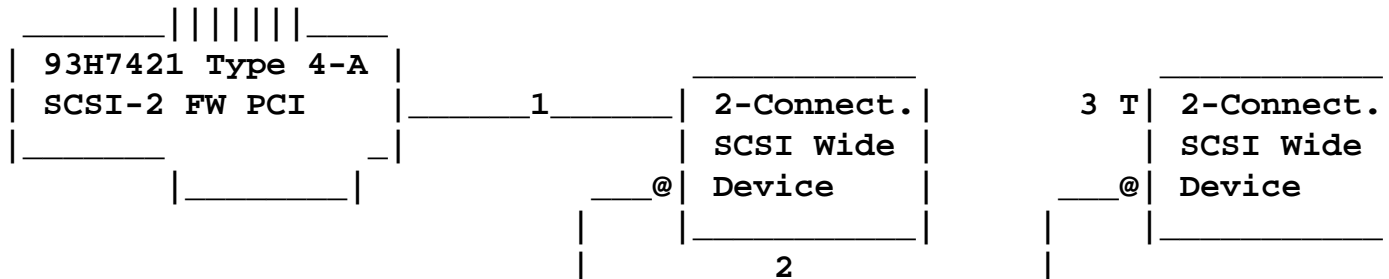
Cable Description	FC#	PN	Length
1- Adapter-to-Single-Connector-Device 8bit Narrow Bus.....	2113	52G0174	1.5m
2- Device-to-Device narrow bus 8bit Narrow Bus	3130	31F4222	0.66m
3- Terminator 50-pin lo-density narrow		52G4260	N/A

Cabling with narrow devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 8-bit Narrow Bus.....	2111	70G9858	1.0m
2- Device-to-Device..... 8-bit Narrow Bus	2840	33F4607	0.7m
3- Terminator 50-pin lo-density narrow		52G4260	N/A

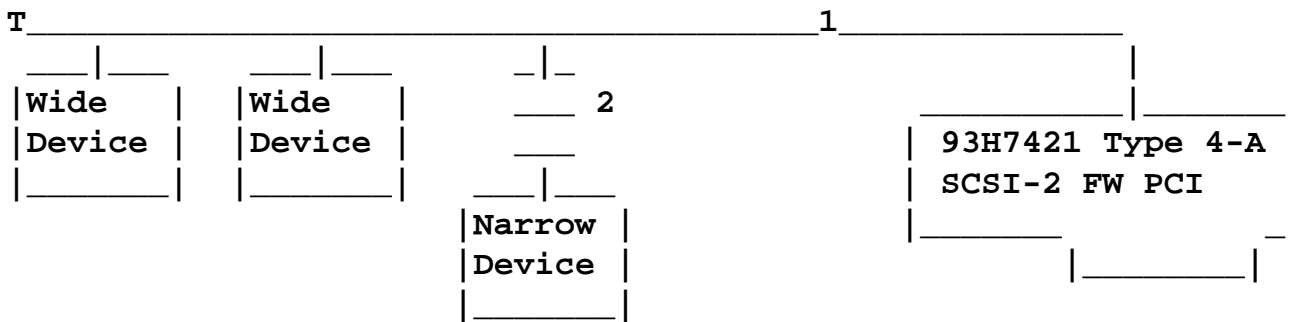
Cabling with wide devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 16-bit wide bus.....	2115	06H6036	1.0m

2- Device-to-Device Wide Bus 16-bit.....	2860/9139	52G9921	0.3m
	2884/9160	52G4291	0.6m
	2883/9150	52G4233	2.5m
	2885/9161	88G5749	4.5m
	2870/9146	88G5747	12.0m
	2869/9145	88G5748	14.0m
	2868/9144	88G5746	18.0m
3- Terminator 68-pin wide bus 16-bit....	part of cable F/C	92F0432 (52G9907)	N/A

Internal Cabling using the 68-pos internal connector



Cable Description	FC#	PN	Length
1- Internal SCSI Cable 16-bit Wide 1drop 4drop 7drop	2442	06H6660	1.0m
		52G0172	?
		52G0170	?
2- 68-pin to 50-pin interposer.....		92F2565 (92F0234)	N/A

SCSI Bus Maximum Length (internal + external):
 3 meters for F/W devices
 6 meters if no F/W devices

Maximum External Devices: 4

Updated Nov 14 2001

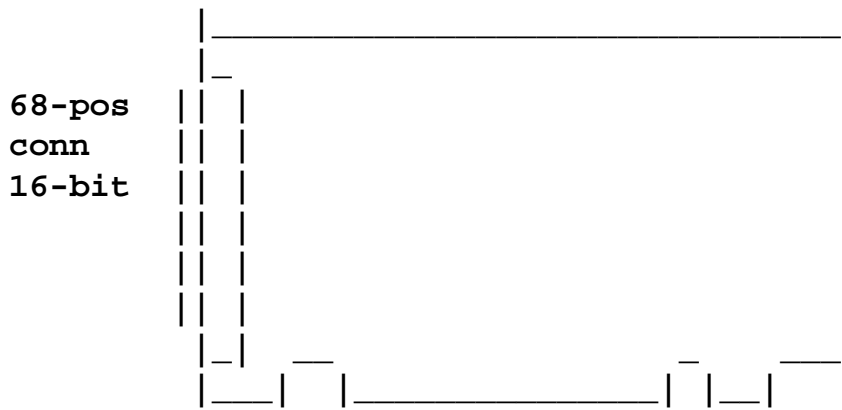
SCSI-2 Differential Fast/Wide PCI Adapter/A

Type 4-B #6209 <--- #2409 - FFC 747

AIX 4.1 and 4.2 fileset: #6209 devices.pci.00100f00.xxx
 Common Symbios PCI SCSI I/O Controller
 Standard NCR53C810 SCSI Software

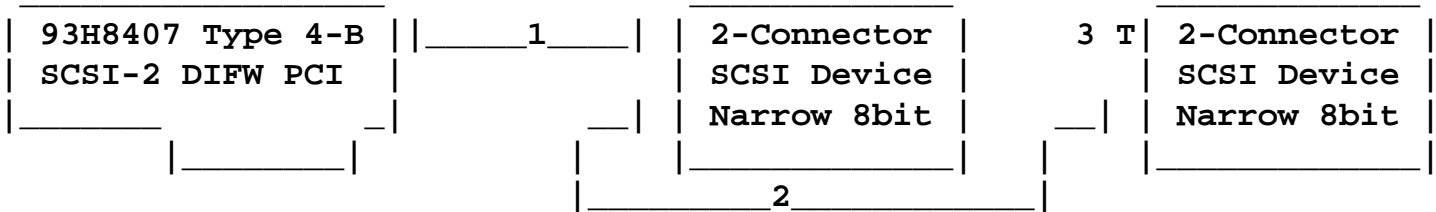
#2409 devices.pci.00100300.xxx
 PCI 16-bit SCSI I/O Controller

#2409 have been withdrawn and is now replaced by #6409 !
 #2409 had Symbios 825 chip
 #6409 has Symbios 825A chip (improved performance)
 Last FRU version of #2409 was 11H8090



FRU: 93H8407, 93H7422, 73H3568.

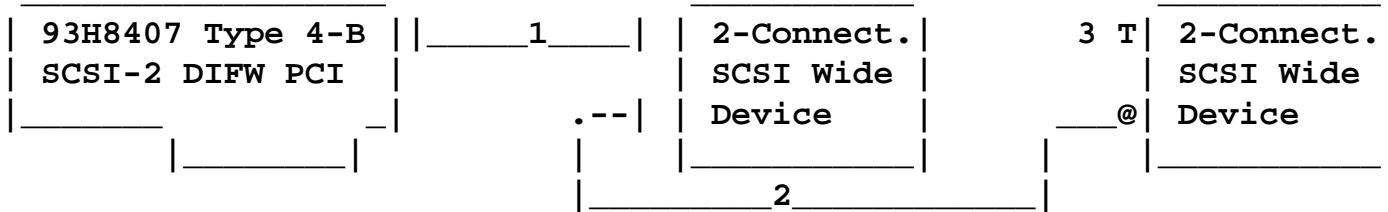
Cabling with narrow devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 8-bit narrow bus.....	2112	70G9858	1.0m
2- Device-to-Device narrow bus 8-bit			

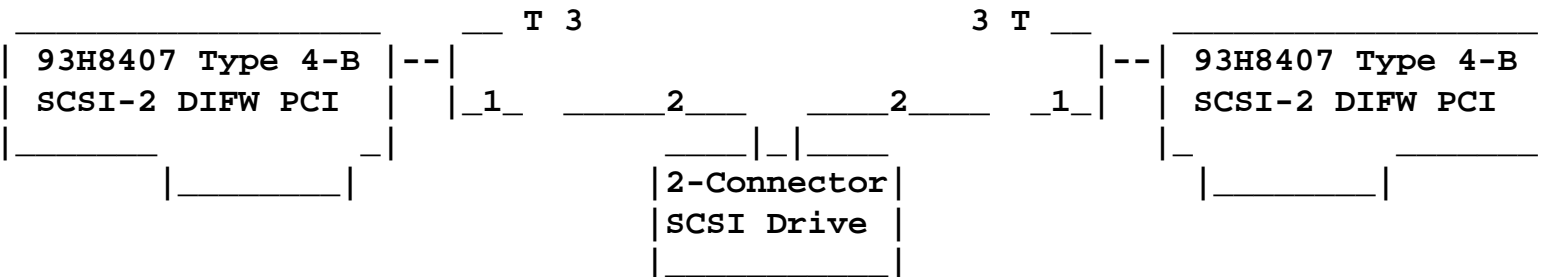
.....	2848, 9134	74G8511	0.6m
3- Terminator 50-pin lo-density narrow	2847, 9133	87G1356	N/A

Cabling with wide devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 16-bit wide bus.....	2116	06H6036	1.0m
2- Device-to-Device Wide Bus 16-bit.....	2860/9139	52G9921	0.3m
	2884/9160	52G4291	0.6m
	2846/9132	52G4233	2.5m
	2885/9161	88G5749	4.5m
	2870/9146	88G5747	12.0m
	2869/9145	88G5748	14.0m
	2868/9144	88G5746	18.0m
3- Terminator 68-pin wide bus 16-bit.... | cable F/C | | N/A |	part of	61G8324	N/A

High Availability



Part Description	FC	PN	Length
1- Y-Cable.....	#2114	52G0173	0.94m
2- Device-to-Device.....	2860/9139	52G9921	0.3m
Wide Bus 16-bit	2884/9160	52G4291	0.6m
	2846/9132	52G4233	2.5m
	2885/9161	88G5749	4.5m
	2870/9146	88G5747	12.0m
	2869/9145	88G5748	14.0m
	2868/9144	88G5746	18.0m
4- Terminator Differential.. (Wide 16-bit)	part of cable F/C	61G8324	N/A

Updated Apr 16 2002 by Bruno Croft

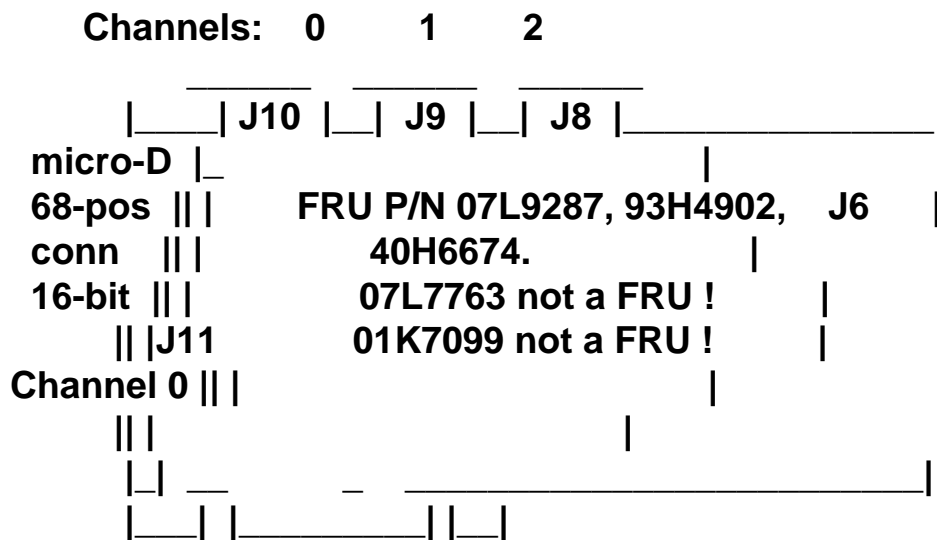
SCSI-2 Fast/Wide PCI RAID Adapter/A Type 4-H - #2493

- ANNOUNCEMENT LETTER A96-740
- Resource name: scraid0
- Filesets: devices.pci.14102e00.rte
devices.pci.14102e00.vsmmit
- Click [here](#) to see current level of devices.pci.14102e00.* filesets

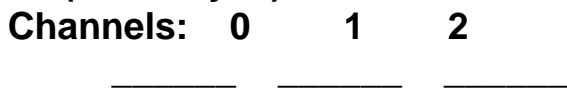
These 2 different card types and they uses different microcode and are not interchangeable - See RETAIN HSF H163466.

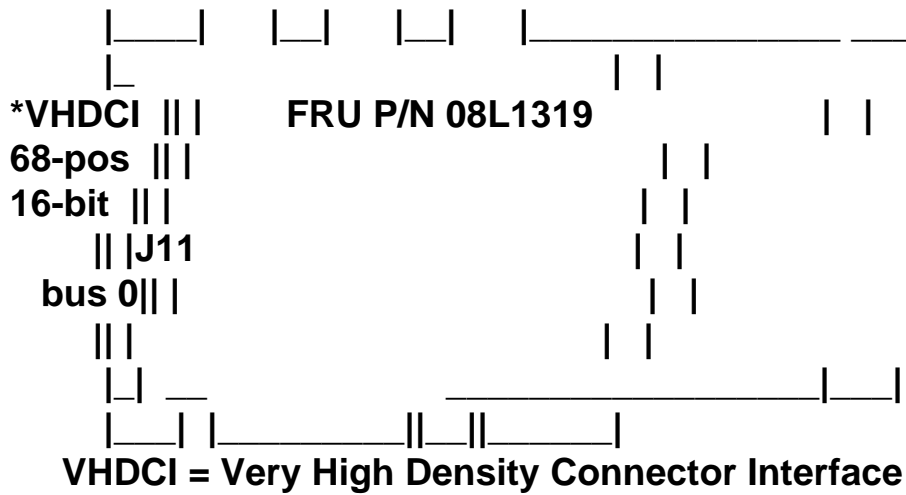
MICROCODE for type A 97348 and B 98150 can be found [here](#)

Type A: (old style)



Type B: (New Style)





J10/J11 SCSI bus 0 - Channel 0 (Only J10 OR J11 is used at a time)

J9 SCSI bus 1 - Channel 1

J8 SCSI bus 2 - Channel 2

Example taken from 'smit

```

Channel__ __ID
  ||
hdisk1 01
hdisk1 12
hdisk1 23

```

NOTE: All 3 disks will display as hdisk1

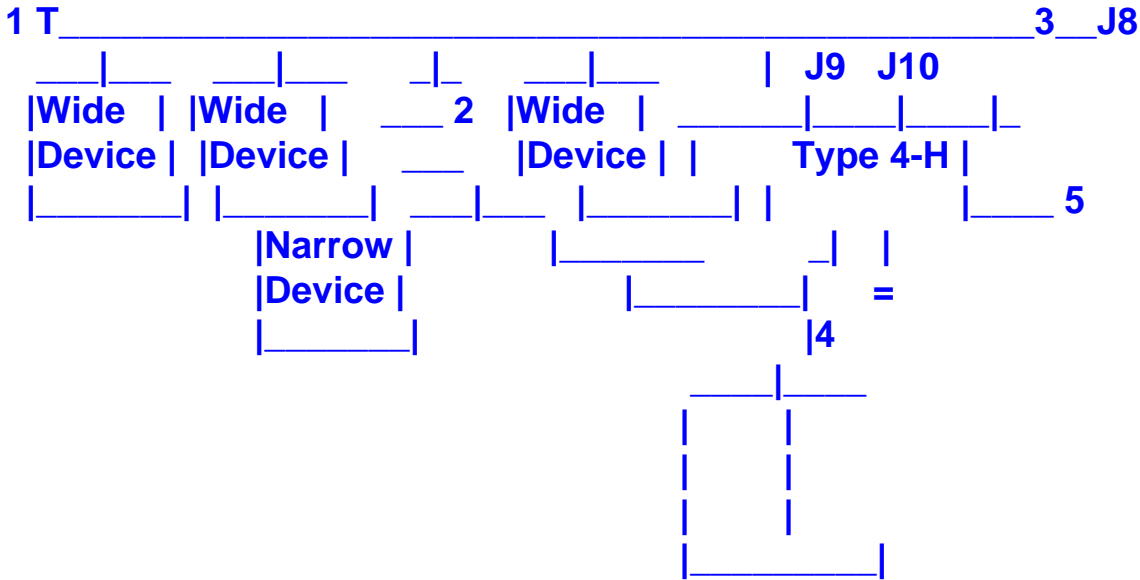
Replacing the SCSI-2 F/W PCI RAID Adapter

A configuration conflict may result when a SCSI-2 F/W PCI RAID Adapter within a configured system is replaced (possibly due to a defective adapter). The configuration stored on the adapter may be out of sync with the configuration stored on the drives. The configuration can be restored by synchronizing the adapter configuration with the drive configuration. This can be accomplished using the **Accept Configuration on Drives** option under **PDAM's Recovery Options**. Use the following to replace the SCSI-2 F/W PCI RAID Adapter:

- 1. Start the SMIT PDAM by entering the following command:
smit pdam**

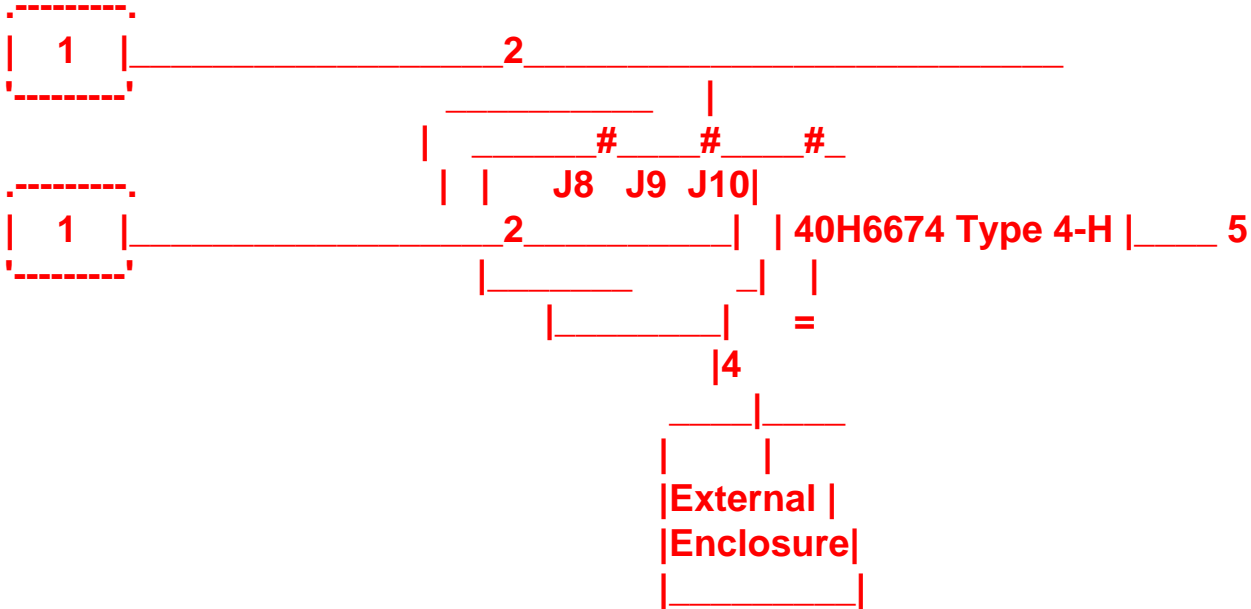
2. Select the **Recovery Options** option.
3. Select **Resolve PCI SCSI RAID Adapter Configuration** option.
4. Select **Accept Configuration on Drives** option.
5. Select the adapter that was replaced.

CABLING EXAMPLE for 7024



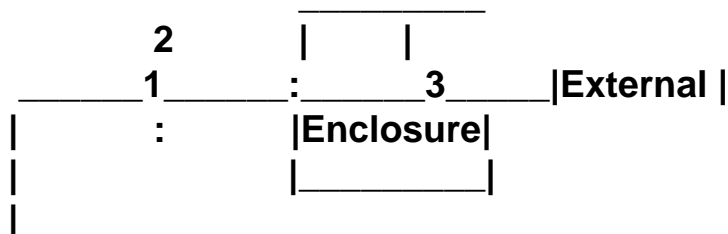
DESCRIPTION	P/N	FC	LENGTH
1 - System specific terminator			
2 - 68-pin to 50-pin Interposer	92F0324	6513	
3 - 4-drop internal cable for M/T 7024	40H6637	2442	
4 - Device-to-device Cable	06H6036	9158	1.0
	52G4233	2425	2.5
	40H7351	3132	6.0
5 - Interposer Cable	01K6497	2118	0.30
Type A adapter use cable 4 only.			

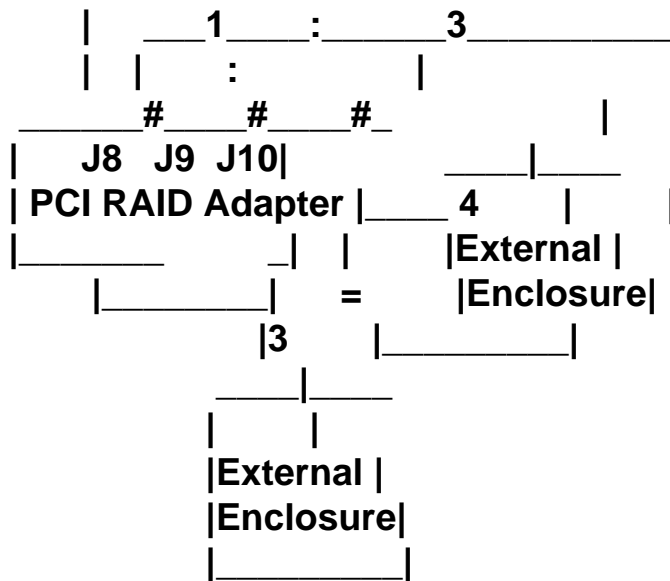
CABLING EXAMPLE for 7025



DESCRIPTION	P/N	FC	LENGTH
1 - System specific SCSI Hot Plug Backplane			
2 - One drop internal cable	06H6876	2447	
	(06H6660)		
3 - 4-drop internal cable for M/T 7024	40H6637	2442	
4 - Device-to-device Cable	06H6036	9158	1.0
	52G4233	2425	2.5
	40H7351	3132	6.0
5 - Interposer Cable	01K6497	2118	0.30
Type A adapter use cable 4 only.			

EXTERNAL CONNECTIONS (Max of three per Adapter)





DESCRIPTION	P/N	FC	LENGTH
1 - Internal Extender Cable	73H3142	3131	
2 - Another Card Slot Opening			
3 - Device-to-device Cable	06H6036	9158	1.0
	52G4233	2425	2.5
	40H7351	3132	6.0
4 - Interposer Cable	01K6497	2118	0.30
Type A adapter use cable 4 only.			

- RAID level 0, 1 and 5

- Up to 10MB seconds (8-bit) or 20MB seconds (16-bit) on 3 independants SCSI bus (called channels)

- System cannot boot from this adapter. If one adapter controls 3 x 6-PACKs in a F50, the boot disk is moved into media bay and attach to another SCSI adapter. Tape backup is then bumped as external device.

- Attach only disk drives and disk drives cannot be shared between many 4-H adapters.

- For best performance, distribute the drives equally across the available channel, for example, J8, J9 or J10.

Updated Feb 01 2002 by Bruno Croft

PCI Single-Ended Ultra SCSI Adapter/A

Type 4-K #6206 - Bloomer

AIX 4.1 and 4.2 fileset: #6206 devices.pci.00100f00.xxx

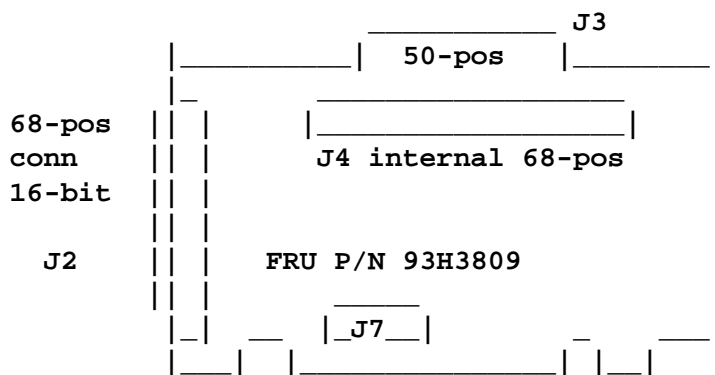
Common Symbios PCI SCSI I/O Controller
Standard NCR53C810 SCSI Software

Support AIX 4.2 IX65868

AIX 4.1 IX65866

Links:

- [IBM Boulder WWW Site](#)Current level of devices.pci.00100f00.* SYM53C8xxxA PCI SCSI I/O
- [IBM Boulder WWW Site](#)Current level of devices.pci.00100100.com Common Symbios PCI SCSI /O
- [IBM Boulder WWW Site](#)Current level of devices.pci.00100100.rte Standard NCR53C810 SCSI ofware



Adapter-to-First Device Cables

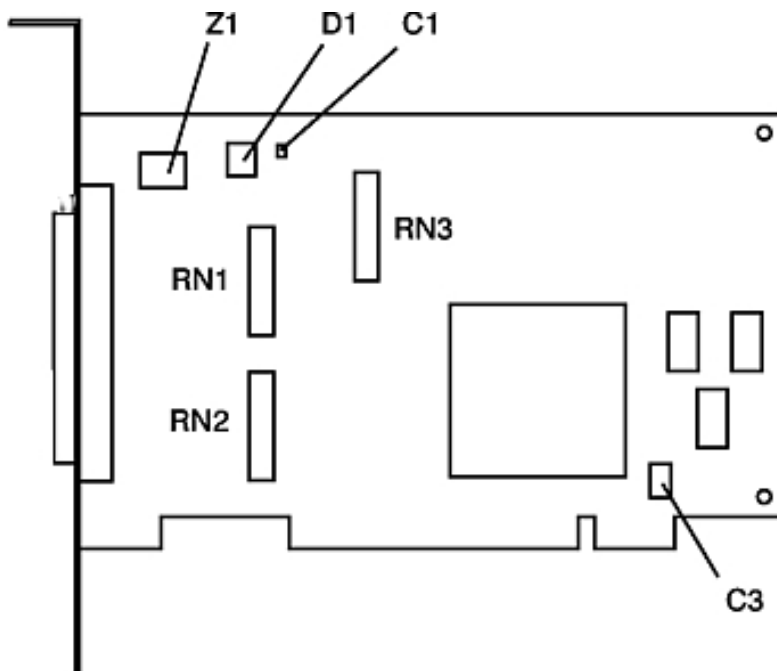
F/C	Cable Description		Length (meters)
2111	Adapter-to-first device (where first device has two connectors), 8-bit narrow bus	70G9858	1.0
2113	Adapter-to-first device (where first device has one connectors), 8-bit narrow bus	52G0174	1.5
2115	Adapter-to-first device (where first device has two connectors), 16-bit narrow bus	52G0174	1.5
	SCSI adapter to backplane	06H6036	1.0
		06H6660	

Updated Oct 11 2001

PCI Differential Ultra SCSI Adapter/A Type 4-L #6207

Fileset current level:

- [devices.pci.00100f00.rte](#) SYM53C8xxA PCI SCSI I/O
- [devices.pci.00100100.com](#) Common Symbios PCI SCSI /O
- [devices.pci.00100100.rte](#) Standard NCR53C810 SCSI



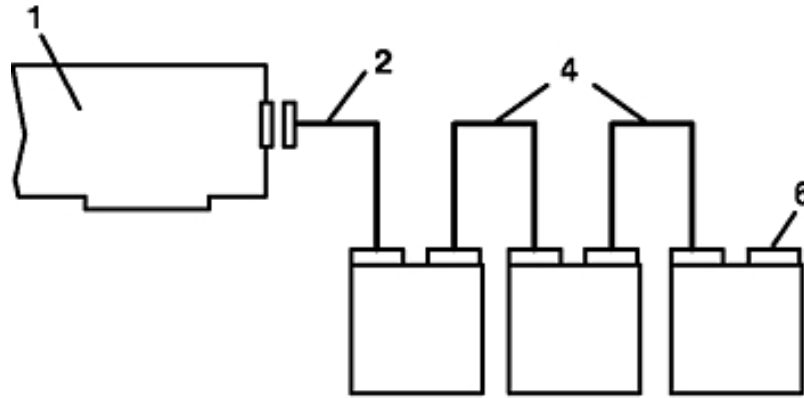
FRU Adapter..... 40H6595

Connector: 68p high-density micro D-shell

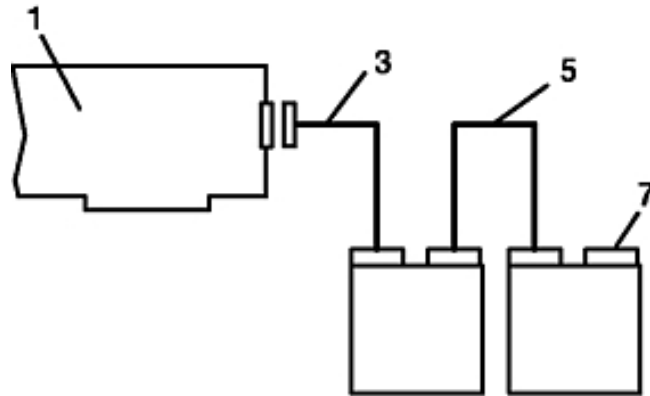
CABLING

- | | | | | |
|---|-----------|------|------------|--|
| 1) Adapter | FRU meter | FC | | |
| 2) Adapter-to-dual conn device narrow 8-bit.. | 70G9858 | 1.0m | #2112 | |
| 4) Device-to-dual conn device narrow 8-bit... | 74G8511 | 0.6m | #2848/9134 | |
| 6) Terminator 8-bit..... | 87G1356 | N/A | | |

Differential External Narrow Bus



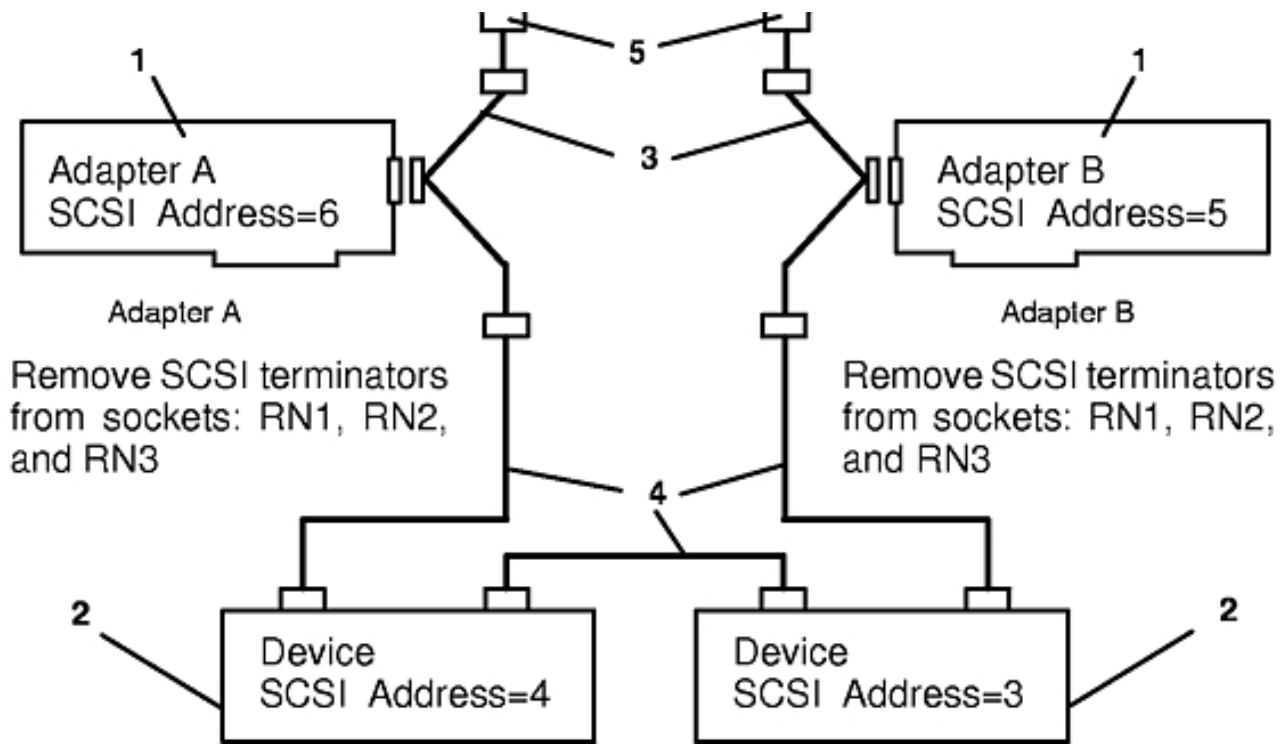
Differential External Wide Bus



- 1) Adapter FRU meter FC
- 3) Adapter-to-dual conn device wide 16-bit .. 70G9857 1.0m #2116
- 5) Device-to-dual conn device wide 16-bit.... 52G4291 0.6m #2884/9160
- or
- 52G9921 0.3m #2860/9139
- 7) Terminator 16-bit..... 61G8324 N/A

MULTI-INITIATOR WITH Y

CABLES



FRU meter FC

- 1) Adapter
- 2) Dual port device
- 3) Y-cable..... 52G0173 0.94 #2114
- 4) Device-to-dual conn device wide 16-bit.... 52G4291 0.6 #2884/9160
 - 52G4233 2.5
 - 88G5749 4.5
 - 88G5747 12.0
 - 88G5748 14.0
- 5) Terminator 16-bit..... 61G8324 N/A

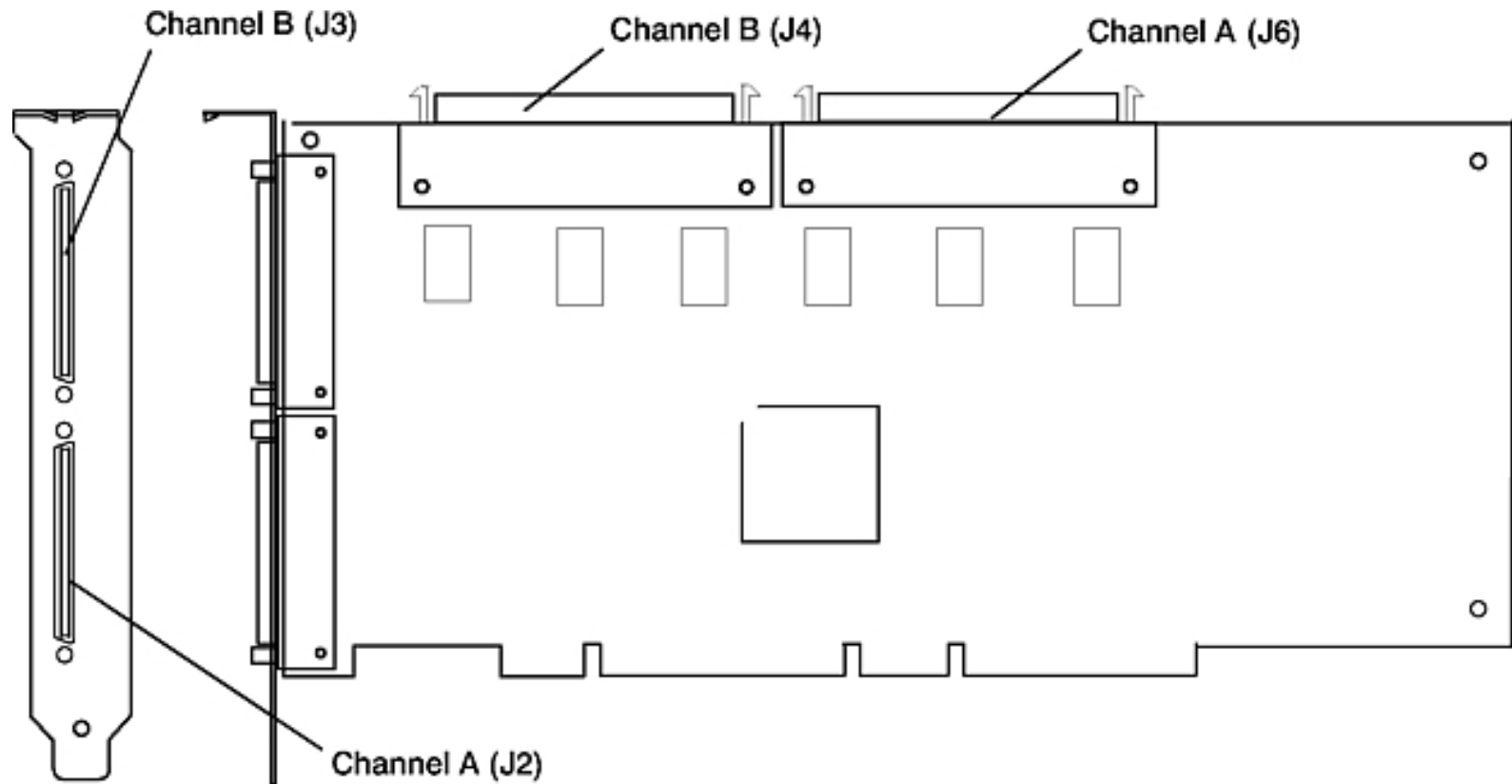
Adapter-to-dev 16-bit 2-conn..... 70G9857 1m #2116
 SCSI adapter to backplane.....

F/C	Cable Description	Length (meters)
2112	Adapter-to-first device (where first device has two connectors), 8-bit narrow bus	70G9858 1.0
2114	16-bit Y-Cable one connectors), 8-bit narrow bus	52G0173 0.94
2116	Adapter-to-first device (where first device has	06H6036 1.0
	SCSI adapter to backplane	06H6660

PCI Dual-Channel Ultra2 SCSI Adapter

Type 4-R #6205

AIX Filesets: [devices.pci.00100b00.*](#) Installation and User's Guide: [PDF](#)



FRU Adapter 03N3606

No Microcode required

Interrupt level PCI interrupt A

Maximum number A controller may be installed in supported 32 or 64 bit, 33MHZ PCI bus slots.

Connector information Each channel (A and B) has both an internal and an external connector, however, only one connector on each channel can have devices attached.

External 68-position very high-density cable interconnect (VHDCI)

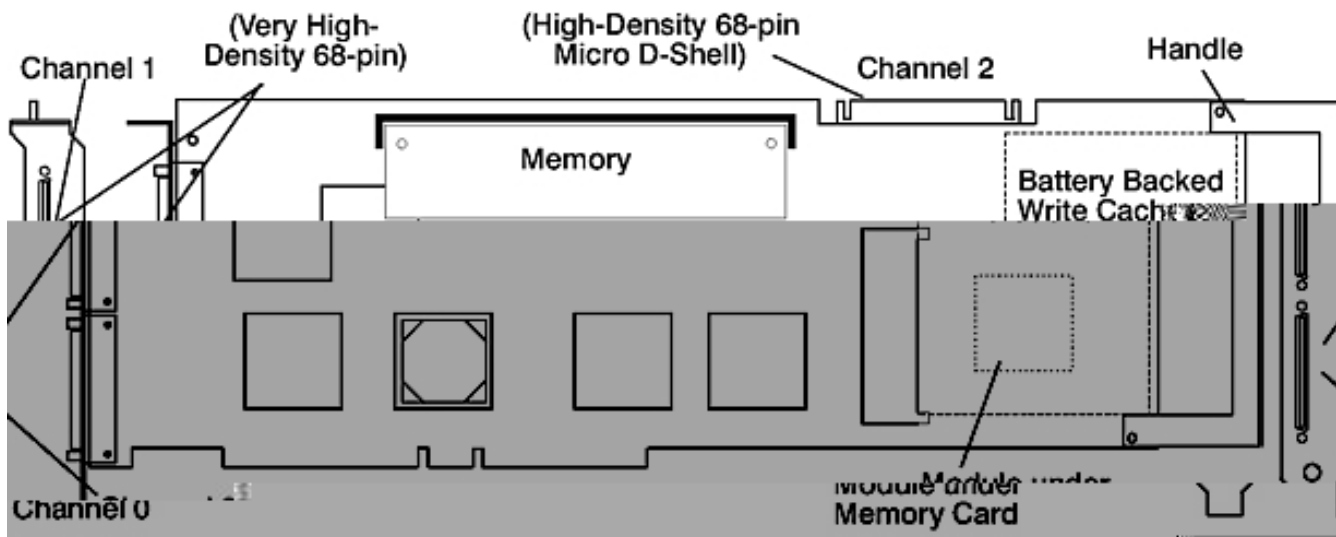
Internal 68-position high-density plastic D-Shell

SCSI bus overcurrent Protection device Positive temperature coefficient (PTC) resistor

Updated: 28 APRIL 2004 by Jef Goupil

PCI 3-Channel Ultra2 SCSI RAID

Type 4-T - #2494 - FFC 667



FRU	FC		
Adapter + Memory (No write cache, No battery)....		01K7396	
32MB Write Cache with battery.....		09L2105, 21H8979	#6235
Battery only.....		44H8429	

NOTE: This adapter cannot be used as a boot adapter

- Canadian ann letter A99-0434
- One internal and 2 external 16-bit Ultra SCSI independent buses.
- Up to 40MBps data transfer rates per SCSI bus.
- RAID 0, 1 or 5 - Addresses up to 45 x 16-bit SCSI-2 disk drives.

Normal behavior:cfgmgr will not add any hdisk or ses (backplane) resource name
Only new channel ID will be seen in the RAID smit panels.

- 32MB fast-write option cache to increase performance.
- External 7131-105 support (max 20MBps).

Links:

- Device driver fileset Name: devices.pci.14102e00.*
- [Adapter Microcode Austin WWW Site](#)

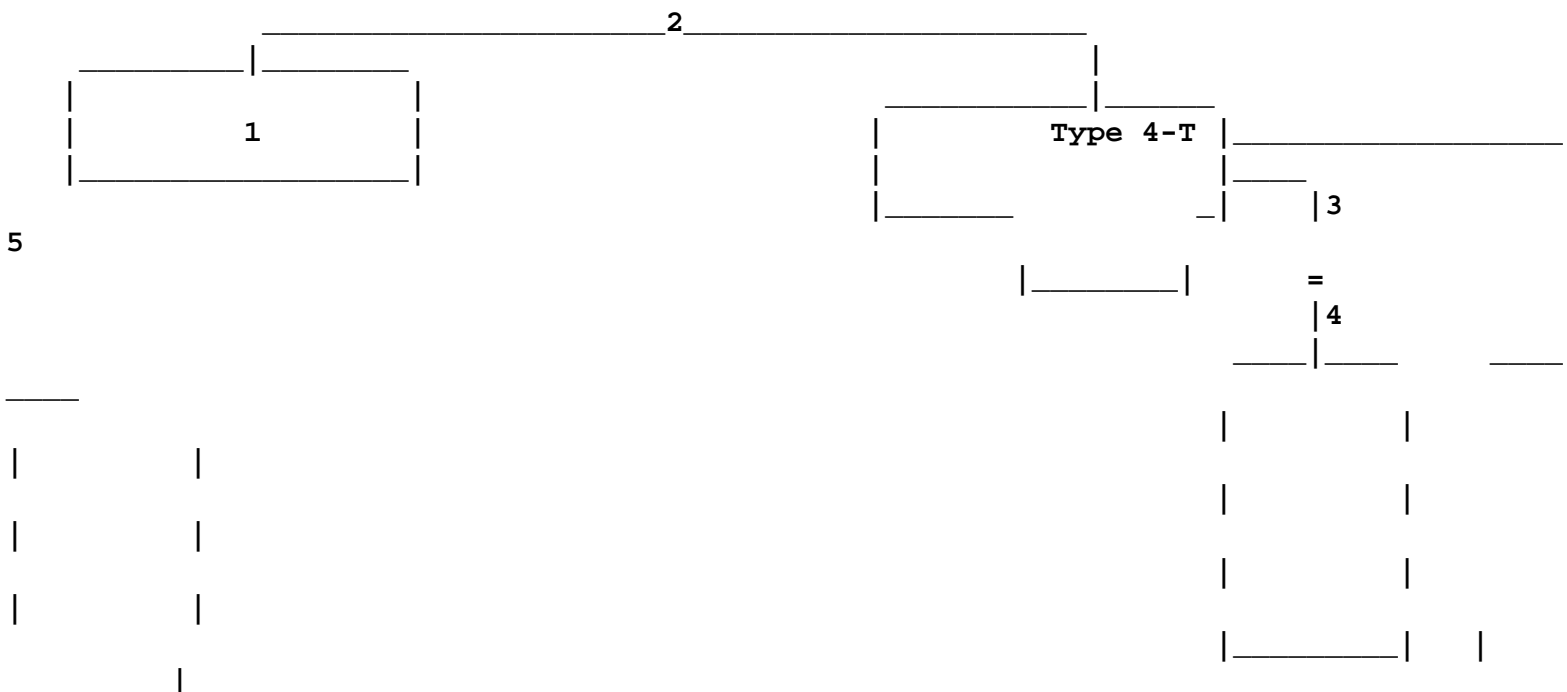
Cabling Info:

Configuration without SCSI-2 fast/Ultra:
Maximum cabling length..... 6m (20 feet)

Configuration with SCSI-2 Ultra:

Maximum cabling length..... 25m (80 feet)

Cabling example



DESCRIPTION	P/N	FC	Length	1 - System backplane
2 - One-drop internal cable:	hot plug	06H6876	2447	0.4m
	non-hot plug	06H6036		0.4m
3 - Converter cable VHDCI-to-P (mini-68 pin to 68pin)		01K6497	2118	0.3m
4 - Device-to-device Cable		06H6036	9158	1.0
		52G4233	2425	2.5
		40H7351	3132	6.0
5 - Adapter-to-device cable VHDCI		09L3299	9301	1.0
		09L3301	9303	3.0
		09L3305	9305	5.0
		09L3307		

NOTE1: If you try to configured a RAID ARRAY and you may receive an misleading error message 'DEVICE IS CURRENTLY UNAVAILABLE'. There is no problem with the device. The explanation is because you MUST be 'root'.

NOTE2: If you attach a 2nd backplane that was previously attached on another SCSI adapter, don't forget to delete the resource name sesX otherwise, the disks will not be seen. The resource sesX will not re-appear after a cfgmgr or a reboot but the disk will be seen as candidate for RAID.

Displaying the FRU of a disk in an array is impossible with lscfg.
You can display some disk VPD information as follow:

- smit devices
- Disk Array
- IBM PCI SCSI Disk Array

- PCI SCSI Disk Array Manager
- Change/Show PCI SCSI RAID Drive Status
- Display Vital Product Data

(select scraid0)

Then move cursor to desired item and press Enter.

```
28 Channel 2 ID 8 ONLINE hdisk2
29 Channel 2 ID 8 ONLINE hdisk2
2A Channel 2 ID 8 ONLINE hdisk2
```

The next panel displays the desired item again.

- Press Enter again

and then it finally displays something like:

```
IBM          DCHS04U 64646824038A
```

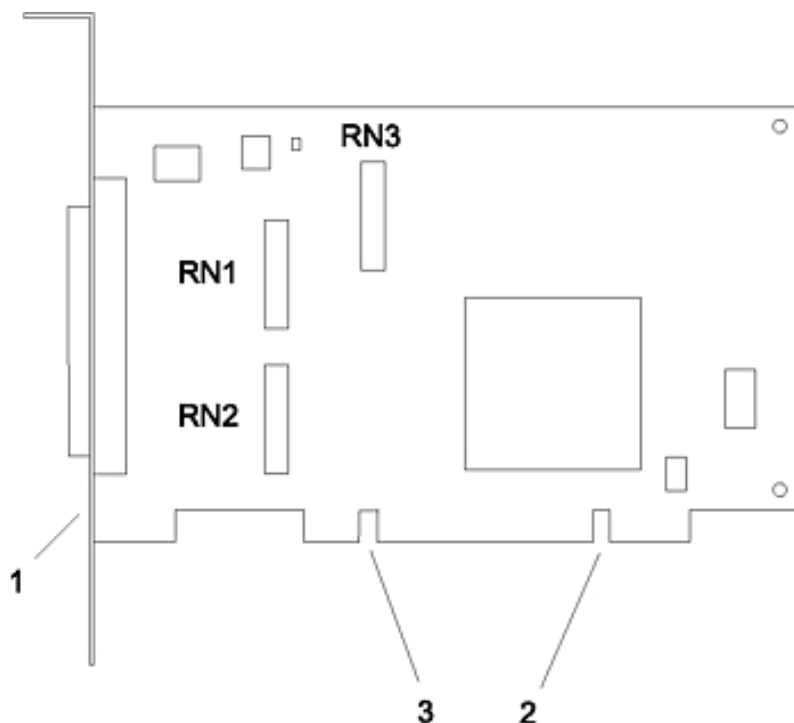
Updated: Feb 2004 BJ Croft

PCI Universal Differential Ultra SCSI Adapter/A Type 4-U #6204

AIX fileset: #6204 devices.pci.00100f00.xxx
Common Symbios PCI SCSI I/O Controller
Standard NCR53C810 SCSI Software

Links:

- [IBM Boulder WWW Site](#) Current level of devices.pci.00100f00.* SYM53C8xxA PCI SCSI I/O
- [IBM Boulder WWW Site](#) Current level of devices.pci.00100100.com Common Symbios PCI SCSI I/O
- [IBM Boulder WWW Site](#) Current level of devices.pci.00100100.rte Standard NCR53C810 SCSI software



FRU 11K0671

- Microcode.... No microcode required
- Transfer rate 40 Mbps
- Interrupt level..... Int A
- Maximum number..... A controller may be installed in any/all available 32

or 64 bit, 33 MHZ PCI bus slots

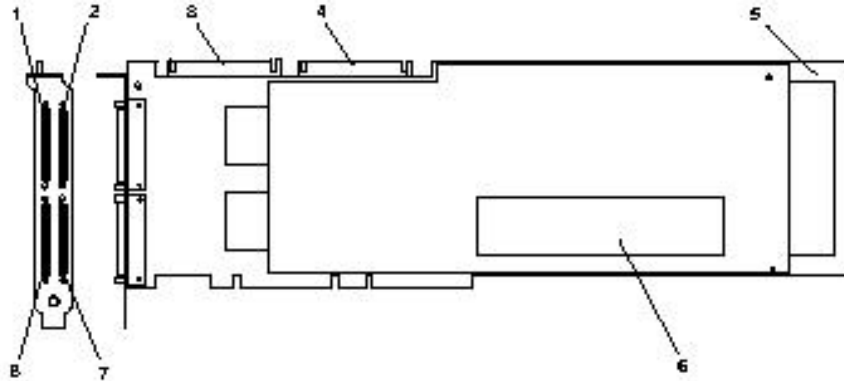
- Connector External.... 68-pin high-density micro D-Shell
- SCSI bus overcurrent

F/C	Cable Description	Length (meters)
2112	Adapter-to-first device (where first device has two connectors), 8-bit narrow bus	70G9858 1.0
2114	16-bit Y-Cable one connectors), 8-bit narrow bus	52G0173 0.94
2116	Adapter-to-first device (where first device has SCSI adapter to backplane	06H6036 1.0 06H6660

Updated 11 APRIL 2000

4-Channel Ultra3 SCSI RAID Adapter Type 4-X - #2498 - Trombone

- [Announcement Letter A00-1508](#)
- Reference Guide [PDF](#) <-- (a MUST, Problem Determination, RAID 5E, etc)
- Installation and Using Guide [PDF](#)
- Check Latest Level of [Microcode](#)
- Search for latest driver level devices.pci.14102e00.rte [4.3](#) | [5.1](#) | [5.2](#)



- | | |
|---|---|
| 1 | Channel 1 connector (66-pin VHDCI) |
| 2 | Channel 2 connector (66-pin VHDCI) |
| 3 | Channel 1 connector (66-pin high-density plastic D-shell) |
| 4 | Channel 2 connector (66-pin high-density plastic D-shell) |
| 5 | Handle |
| 6 | Memory |
| 7 | Channel 3 connector (66-pin VHDCI) |
| 8 | Channel 4 connector (66-pin VHDCI) |

	FRU	FFC
Base card.....	37L6892	66D
Cache US.....	37L6902	E2A
Cache Japan.....	19K0561	E2A
Cache battery US...	37L6903	E3A
Cache battery Japan	00N9561	E3A

Resource Name: scraid0
 Fileset: devices.pci.14102e00.*
 Firmware: 98 will gives errors. Install latest.

WARNING: Enclosures attached on this RAID adapter like 2104-DU3/TU3 are not seen by lscfg output. To verify enclosure microcode (devices.pci.14102e00.diag MUST be at 4.3.3.50) Do:
 - diag

- Task Selection
- Download Microcode
 - Select the raid adapter
 - F7
 - Backplanes

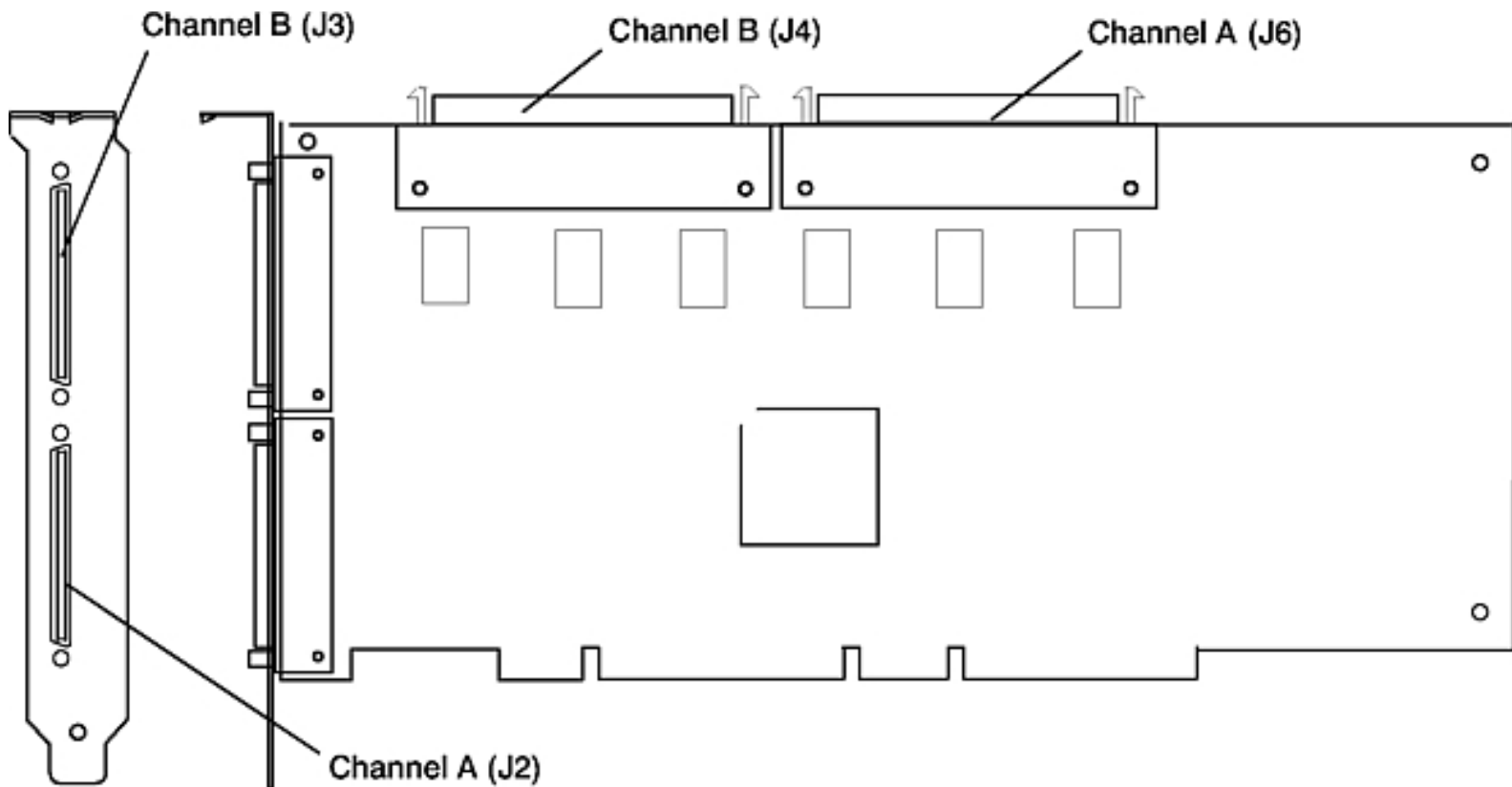
Displayed will be a list of backplanes connected to the SCSI RAID adapter. Next to each backplane will be its current microcode level.

Created: Jan 18 2001 by Bruno Croft

Updated: Oct 2003 by BJ Croft

Dual-Channel Ultra3 SCSI Adapter Type 4-Y - #6203 - Genie - FFC 2520

- Canadian Announcement letter - [A01-1222](#)
- Installation and Using Guide SA23-2597 - [PDF](#)
- Search for latest driver level - Enter devices.pci.00102100.rte - [4.3](#) | [5.1](#) | [5.2](#)



	FRU	FFC
Adapter.....	09P2544	2520

Resource Name:
Fileset: devices.pci.00102100 ALL
Created: Oct 12 2001 by Bruno Croft
Updated: Oct 2003 by Bruno Croft

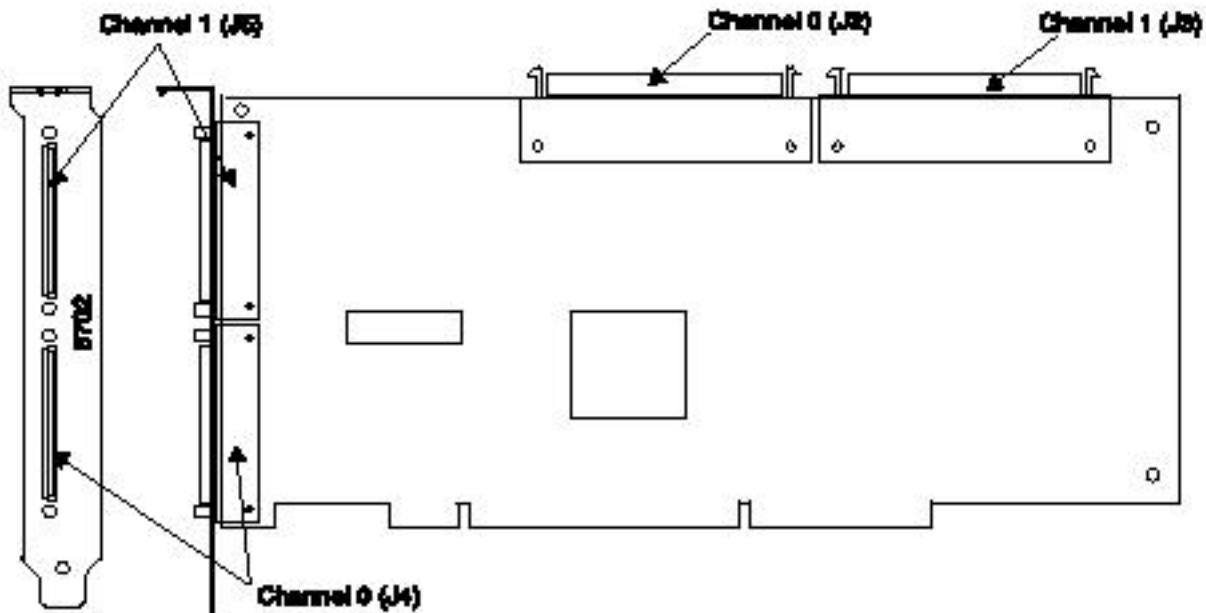
#5712/5710 - PCI-X Dual Channel Ultra320 SCSI - Type 5702

- Announcement Letter: US [103-288](#) | CDN [A03-1383](#)
- Supported: AIX 5.1/5.2 with appropriate updates
- Documentation:
PCI-X Dual Channel Ultra320 SCSI Adapter Installation and Using Guide (pdf): [SA23-1303](#)
- Fileset: devices.pci.14106602.*

- This adapter has downloadable [microcode](#)

FRU: 97P6513, 97P3359 #5712 no carrier
97P6653, 53P4705 #5710 with carrier

FFC: 2522



Created Jan 2004 by Bruno Croft

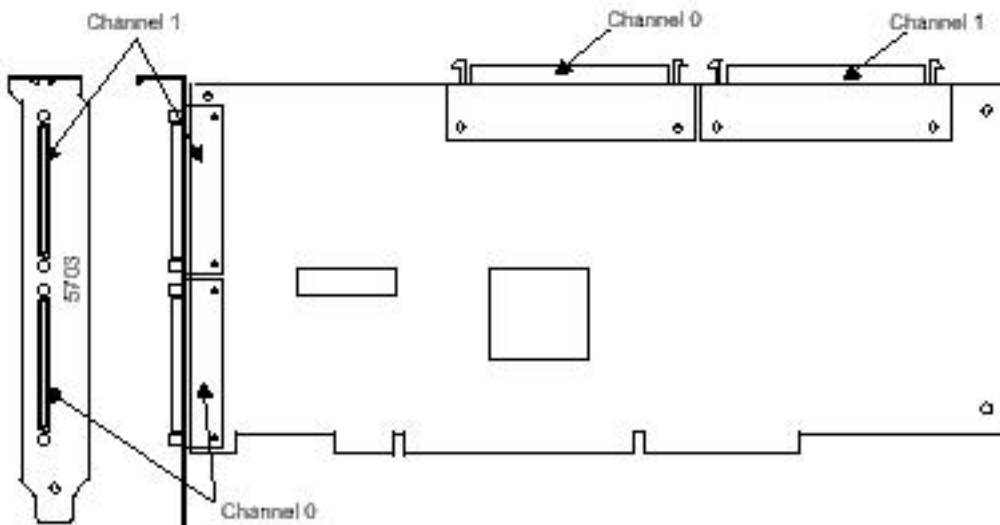
Updated: Oct 2004 by Bruno

#5703 PCI-X Dual Channel Ultra320 SCSI RAID - Type 5703 #5711 Blind Swap Version (in Cassette) - Type 5703

- Announcement Letter: US [103-288](#) | CDN [A03-1383](#)
- Supported: AIX 5.1/5.2 with appropriate updates
- Documentation:
 - Installation and Using Guide (pdf): [SA23-1324](#)
 - PCI-X SCSI RAID Controller Reference Guide for AIX (pdf): [SA23-1323](#)
 - PCI-X SCSI RAID Controller Reference Guide for Linux (pdf): [SA23-1327](#)
- Fileset: devices.pci.14107802.*

FRU: 97P3960 no cassette - #5703
80P2696 + cassette - #5711

FFC: 2522



Created Jan 2004 by Bruno Croft
Updated May 2004 by Bruno Croft

#5709 - Dual Channel SCSI RAID Enablement Card - for M/T 7029

- Announcement Letter: US [103-288](#) | CDN [A03-1383](#)

- Supported: AIX 5.1/5.2 with appropriate updates

- Documentation:

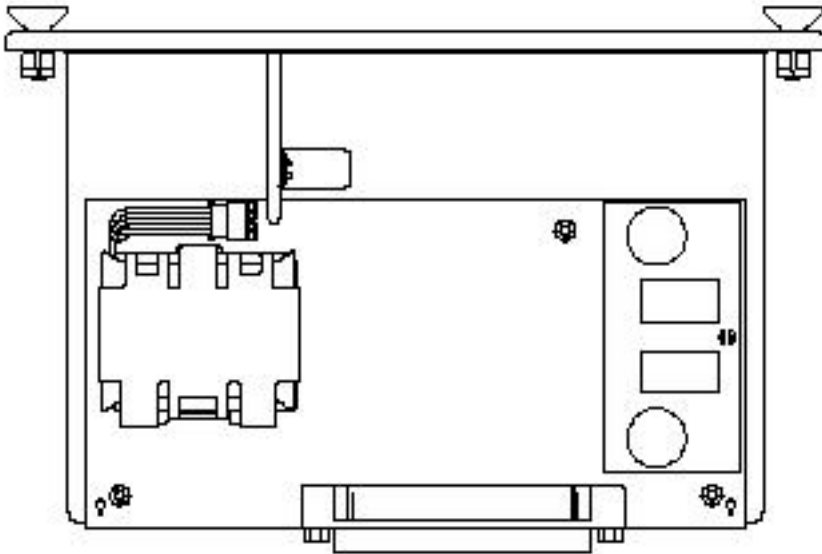
Dual Channel SCSI RAID Enablement Card - Installation and Using Guide (pdf): [SA23-1325](#)

PCI-X SCSI RAID Controller Reference Guide for AIX (pdf): [SA23-1323](#)

PCI-X SCSI RAID Controller Reference Guide for Linux (pdf): [SA23-1327](#)

FRU: 97P2823

FFC: 2523



Created Jan 2004 by Bruno Croft

PCI SSA 4-Port RAID Adapter/A Type 4-J - #6218 - Beaulieu

B2 -->	B2 Internal connector	#6218
Green light -->		
B1 -->	B1 Internal connector	
A2 -->	96H9875<-32H3836 (without DRAM)	
Green light -->	73G3233 DRAM card	
A1 -->		

Specs:

- Supported at AIX V4.15, 4.2.1, 4.3.0
- Not AIX 3.2
- Single adapter in a loop (No High-Availability).
- From 3 to 16 drives per RAID Array.
- Busmaster: **Yes**
- Adapter Type: **Long**
- Data transfer rate: **20MB/s per loop**
- Loops: **2**
- Disks per loop: **48**
- Adapter Compatibility: **None**
- RAID support: **RAID 5 and Non-RAID**
- Hot Spare: **Yes**
- Fast Write Cache: **No**

Links to see/download current level of fileset:

- Adapters:
[devices.pci.14104500.*](#)
- Disks:
[devices.ssa.disk.rte.*](#)
[devices.ssa.IBM_raid.rte.*](#)
- Microcode:
[Adapter, disks, spare tool and AIX](#)
- Doc:
[Install, technical & MIM](#)

Other Links:

- [Dave Adams Web Site](#)
- [Any other search on Boulder](#)

- RAID/Spares Span Loops: **Yes.**
- Boot Support: **No.**
- Dump tool: **No**

Status: Still supported but withdraw - #6215 4-n now replaces #6218 4-j

Status of light

Off	Both link inactive / DISK failing / link
ON	Both link active
Slow Flash	Only 1 SSA link active

The adapter card has 4 SSA connectors that are arranged in 2 pairs. Connectors A1 and A2 are one pair; connectors B1 and B2 are the other pair.

The SSA links must be configured as loops. Each loop is connected to a pair of connectors at the SSA card. These connectors MUST be a valid pair (that is, configured, and the diagnostics fail. Operations to all the disk drive modules on a particular loop can continue if that loop breaks at any one point.

This adapter also contains ARRAY MANAGEMENT SOFTWARE that provides RAID-5 functions to control the arrays of the RAID subsystem. An array can have from 3 to 16 member disk drives. Each array is handled as ONE LARGE DISK by the operating system. The array management software translate requests to this large disk into requests to the member disk drive. Although this adapter is a RAID adapter, it can be configured so that all, some, or none of the disk drives that are attached to it are member disks of arrays.

SSA Cables:

P/N	FC	Length	
07H9163	5002	0.18m	0.6ft
31H7960	5006	0.6m	1.9ft
07H8985	5010/2895	1.0m	3.3ft
32H1465	5025/2896	2.5m	8.2ft
88G6404	5050/2897	5m	16.4ft
32H1466	5100/2898	10m	32.8ft
88G6406	5250/2899	25	82.0ft
93H9821	Internal -	plugs on B1/B2	

07H9153	5500 Extender Pair
32H7048	Extender 1 cable
32H7049	Wrap for extender

INTERNAL CABLING: Ports B1 and B2 have 2 sets of connectors. There is an internal B1/B2 pair and an external B1/B2 pair. Only one pair of these loops connector can be used at a time.

Updated: Nov 30 2000 by Bruno Croft

- Data transfer rate: **20MB/s per loop**
- Loops: **2**
- Disks per loop: **48**
- Adapter Compatibility: **4M, 4N and 4P (Note 2)**
- RAID support: **RAID 5, Fast-Write Cache and Non-RAID**
- Hot Spare: **Yes**
- Fast Write Cache: **4MB**
- RAID/Spares Span Loops: **No.**
- Boot Support: **No.**
- Dump tool: **Requires Hot Spare**

[Dave Adams Web Site](#)
[Boulder PTF WWW Site](#)

Note 1: If more than 2 adapters are connected, RAID and Fast-Write Cache cannot be used.

- 2) Two adapters per loop with RAID and non Fast Write Cache, Eight adapters per loop non-RAID and non Fast Write Cache.

Data transfer rate 20MB/second per loop

Status of light

Off	Both link inactive / DISK failing / link
ON	Both link active
Slow Flash	Only 1 SSA link active

The adapter card has 4 SSA connections that are arranged in 2 pairs. Connectors A1 and A2 are one pair; connectors B1 and B2 are the other pair.

The SSA links must be configured as loops. Each loop is connected to a pair of connectors at the SSA card. These connectors MUST be a valid pair (that is, configured, and the diagnostics fail. Operations to all the disk drive modules on a particular loop can continue if that loop breaks at any one point.

This adapter also contains ARRAY MANAGEMENT SOFTWARE that provides RAID-5 functions to control the arrays of the RAID subsystem. An array can have from

3 to 16 member disk drives. Each array is handled as ONE LARGE DISK by the operating system. The array management software translate requests to this large disk into requests to the member disk drive. Although this adapter is a RAID adapter, it can be configured so that all, some, or none of the disk drives that are attached to it are member disks of arrays.

Other software in the adapter controls the Fast-Write Cache Option Card. This card provides 4MB of cache, which can improve performance for jobs that include many write operations. The fast-write cache card has a standard PCMCIA connector.

SSA Cables:

P/N	FC	Length	

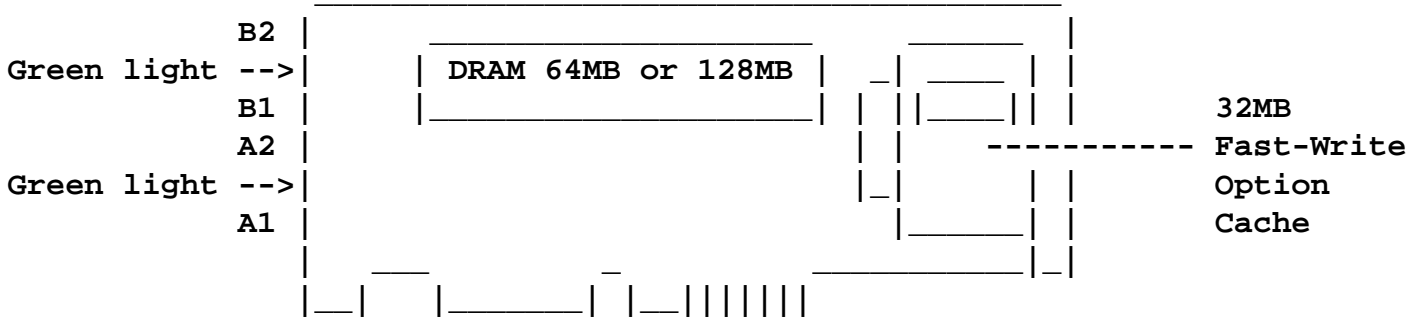
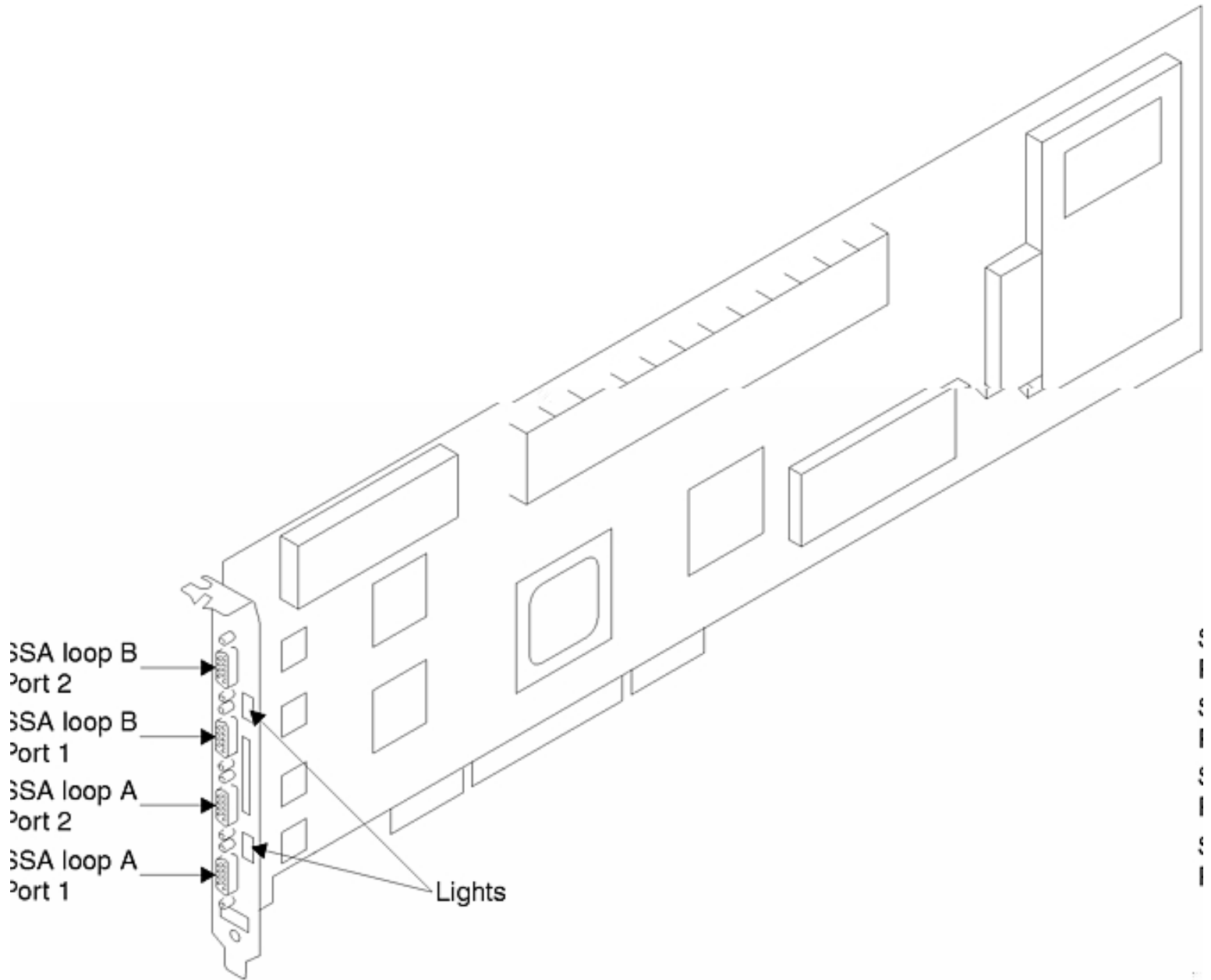
07H9163	5002	0.18m	0.6ft
31H7960	5006	0.6m	1.9ft
07H8985	5010/2895	1.0m	3.3ft
32H1465	5025/2896	2.5m	8.2ft
88G6404	5050/2897	5m	16.4ft
32H1466	5100/2898	10m	32.8ft
88G6406	5250/2899	25	82.0ft
93H9821	Internal -	plugs on B1/B2	

INTERNAL CABLING: Ports B1 nad B2 have 2 sets of connectors. There is an internal B1/B2 pair and an external B1/B2 pair. Only one pair of these loops connector can be used at a time.

Last Updated: Nov 30 2000

#6225 PCI SSA Advanced SerialRAID Type 4-P

Minimum support AIX 4.2.1 and 4.3.2



FC Description FRU

```

-----
#6225 Base Card..... 09L2090* (no DRAM)
      64MB DRAM Standard... 09L2104
#6231 128MB DRAM Option.... 09L5585 (Replaces 64MB)
#6235 32MB Fast-Write Cache 09L2105
      Fast-Write battery... 44L0305

```

* 09L2090 now subs to #6230 34L5388

```

      COMMAND                      RESULT
ssa_format -l ssaX -b             ( Resets counter - don't do that unless battery is
changed )
ssa_fw_status -a ssaX             ( Shows ALL: size, expectancy, powered on and battery
state )
ssa_fw_status -a ssaX -l         ( Shows battery life expectancy )
ssa_fw_status -a ssaX -p         ( Shows how long battery has been powered on )
ssa_fw_status -a ssaX -c         ( Shows if cache is active )

```

Specs:

- AIX: 4.2.1, 4.3.0
- 8 initiators Non-RAID / 2 initiators RAID-5
- From 3 to 16 drives per RAID Array.
- Bus width: **32**
- Busmaster: **Yes**
- Adapter Type: **Long**
- Data transfer rate: **20MB/40MB SSA link speed**
automatically negotiated
- Loops: **2**
- Max disks/loop: **48**
- Adapter Compatibility: **4M, 4N and 4P (Note 1)**
- RAID support:
RAID 0, RAID 5 Fast-Write Cache and Non-RAID
Single Adapter - RAID 5 with Fast/Write cache.

Links to see/download current level of fileset:

- Adapters:
 - [devices.pci.14104500.*](#)
 - [devices.pci.14109100.*](#)
- Disks:
 - [devices.ssa.disk.rte.*](#)
 - [devices.ssa.IBM_raid.rte.*](#)
- Microcode:
 - [Adapter, disks, spare tool and AIX](#)
 - [Microcode Revision history](#)
- Doc:
 - [Install, technical & MIM](#)

Others searches:

- [Dave Adams Web Site](#)
- [Boulder PTF WWW Site](#)

Single Adapter - RAID 0.

Two Adapters - RAID 5 and Non Fast/Write.

- Hot Spare: **Yes**
- Fast Write Cache Option: **32MB**
- RAID/Spares Span Loops: **No.**
- Boot Support: [Yes](#)
- Dump tool: **Requires Hot Spare**

- [VPD Sample](#)

**Note 1) Two adapters per loop with RAID and non Fast Write Cache,
Eight adapters per loop non-RAID and non Fast Write Cache.**

7133 models D40 and T40 require enclosure microcode level 11 or greater.

- Up to Eight Adapters - Non RAID and Non Fast/Write
- From 3 to 16 drives for RAID 5 arrays.
- From 2 to 16 drives for RAID 0 arrays.
- Array member drives and spares must be on same loop (can not span A and B loops) on the adapter.
- IPL boot not supported.
- Supports dump tool.

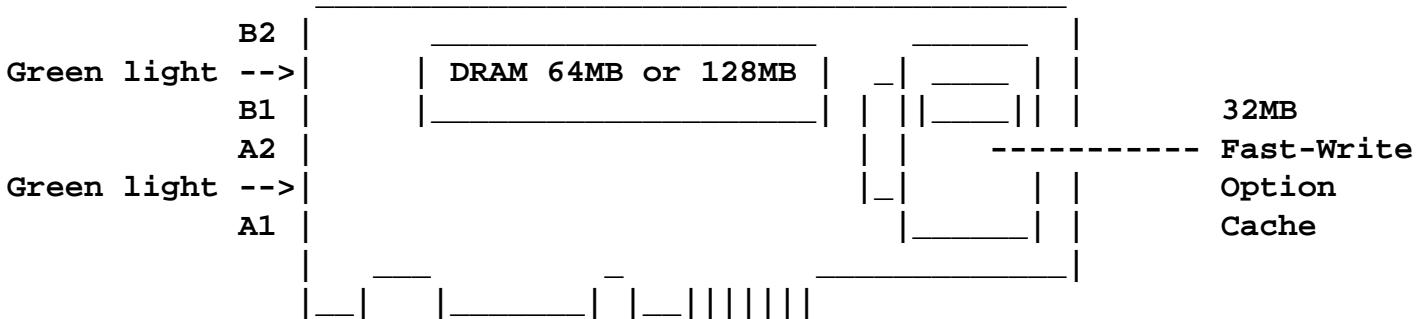
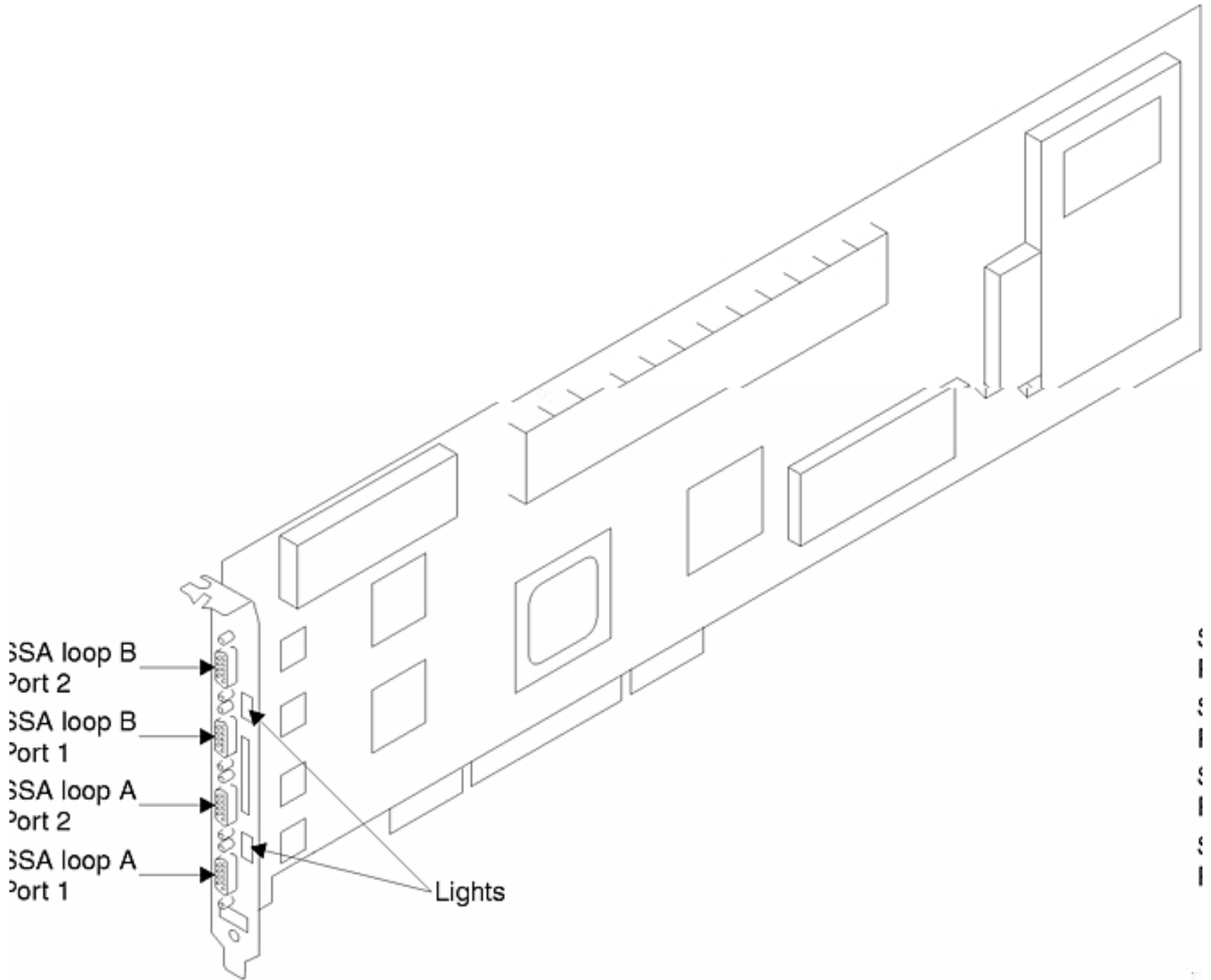
If you are using FC 6225 (4-P Advanced SerialRAID Adapters) with a current microcode level below 5000 with RAID

arrays that have fastwrite enabled, then you need to run a tool to prepare these resources prior to upgrading the firmware to level 8300. Please see: www.storage.ibm.com

Updated May 2003 by Bruno Croft

#6230 PCI SSA Advanced SerialRAID Plus Adapters Type 4-P

Minimum support AIX 4.2.1 and 4.3.2 - A99-1653



FC	DESCRIPTION	FRU
----	-------------	-----

```

-----
#6230 Base Card..... 34L5388 (no DRAM)
      64MB DRAM Standard... 09L2104
#6231 128MB DRAM Option.... 09L5585 (Replaces 64MB)
#6235 32MB Fast-Write Cache 09L2105
      Fast-Write battery... 44L0305

```

COMMAND	RESULT
ssa_format -l ssaX -b changed)	Resets counter - don't do that unless battery is
ssa_fw_status -a ssaX state)	Shows ALL: size, expectancy, powered on and battery
ssa_fw_status -a ssaX -l	Shows battery life expectancy)
ssa_fw_status -a ssaX -p	Shows how long it had been powered on)
ssa_fw_status -a ssaX -c	Shows if cache is active)

Specs:

- AIX: 4.2.1, 4.3.2 or above
- RAID support:
 - Non-RAID, 0, 1, 5, 10.
- Option 32MB Fast-Write Cache: improves performance
 - with RAID 5, RAID-10 and non-RAID applications.
- Initiators:
 - Non-RAID = 8
 - RAID-0 = 1
 - RAID-1 with Fast-Write option = 2
 - RAID-5 with Fast-Write option = 2
 - RAID-10 with Fast-Write option = 2
- Number of disks:
 - 2-16 per RAID-0 Array.
 - 2 per RAID-1 Array.
 - 3-16 per RAID-5 Array.

Links to see/download current level of fileset:

- Adapters:
 - [devices.pci.14104500.*](#)
 - [devices.pci.14109100.*](#)
 - Disks:
 - [devices.ssa.disk.rte.*](#)
 - [devices.ssa.IBM_raid.rte.*](#)
- Microcode:
- [Adapter, disks, spare tool and AIX](#)
 - [See Microcode Revision history](#)
- Documentation:
- Download / Read [SSA General Doc Page](#)
 - Read [PDF User's Guide and Maintenance](#)
 - Read [PDF Technical Reference](#)
 - Read [PDF Planning Guide](#)

Others searches:

- [Dave Adams Web Site](#)
- [Boulder PTF WWW Site](#)
- [VPD Sample](#)

4-16 per RAID-10 Array (in pairs)

- Bus width: **32**
- Busmaster: **Yes**
- Adapter Type: **Long**
- Data transfer rate: **20MB/40MB SSA link speed**
automatically negotiated
- 7133-D40/T40 require enclosure microcode level **>=11**
- Loops: **2**
- Max disks/loop: **48**
- Adapter Compatibility: **4M, 4N and 4P (Note 1)**
- Hot Spare: **Yes**
- Fast Write Cache Option: **32MB**
- RAID/Spares Span Loops: **No.**
- Boot Support: **Yes**
- Dump tool: **Requires Hot Spare**

**Note 1) Two adapters per loop with RAID and non Fast Write Cache,
Eight adapters per loop non-RAID and non Fast Write Cache.**

7133 models D40 and T40 require enclosure microcode level 11 or greater.

- **Up to Eight Adapters - Non RAID and Non Fast/Write**
- **From 3 to 16 drives for RAID 5 arrays.**
- **From 2 to 16 drives for RAID 0 arrays.**
- **Array member drives and spares must be on same loop (can not span A and B loops) on the adapter.**
- **IPL boot not supported.**
- **Supports dump tool.**

Updated May 2003 by Bruno Croft



SSA

SSA Options

- [7025-F40 SSA Backplane Option](#)
- [7025-F50 SSA Backplane Option](#)

Other

- [Check/Download Enclosure microcode](#)

Updated: Nov 16 2000 by Bruno Croft

Ethernet Info

How to change adapter speed without rebooting

1) `ifconfig enX down detach`

3) make changes in `smitty / devices / communications / Ethernet Adapter / Adapter / Change Show Charac../`

(`smitty eadap`)

or by `chdev -l entX -a media_speed='100_Half_Duplex'`

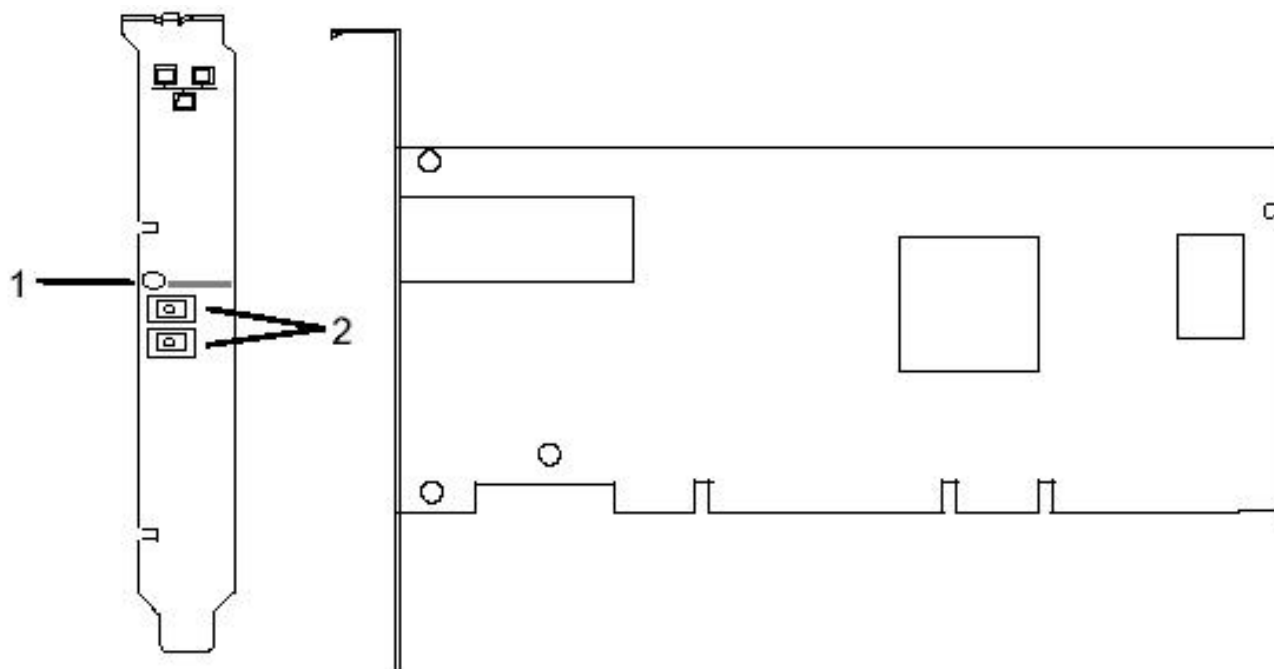
5) `smitty tcpip inet /Change Show / (select interface) and change Current STATE to up.`

(Don't do `ifconfig enX up` - this will put an IP address of 0.0.0.0)

6) `mkdev -l inet0` (to activate all routes)

Created Oct 2002 by Bruno Croft

Gigabit Ethernet-SX PCI-X Type 5700 - #5700



- 1 LED
2 Multimode Fiber LC Receptacle

Links:

- [See current level of device driver devices.pci.14106802.rte](#)
- [More info from Adapters Devices & Cable Manual SA38-0516](#) See Chap 1 Adap 5700
- [Installation and Using Guide PDF](#)

FRU Adapter	00P3055
IO bus architecture	PCI 2.2 and PCI-X V1.0a compliant
Busmaster	Yes
ADAPTER SIZE	PCI short form
CONNECTOR	LC fiber optic
WRAP PLUG	11P3847 LC Fiber Optic
CABLE	Customer supplied, 11P1374 Optional LC-SC converter cable #2459

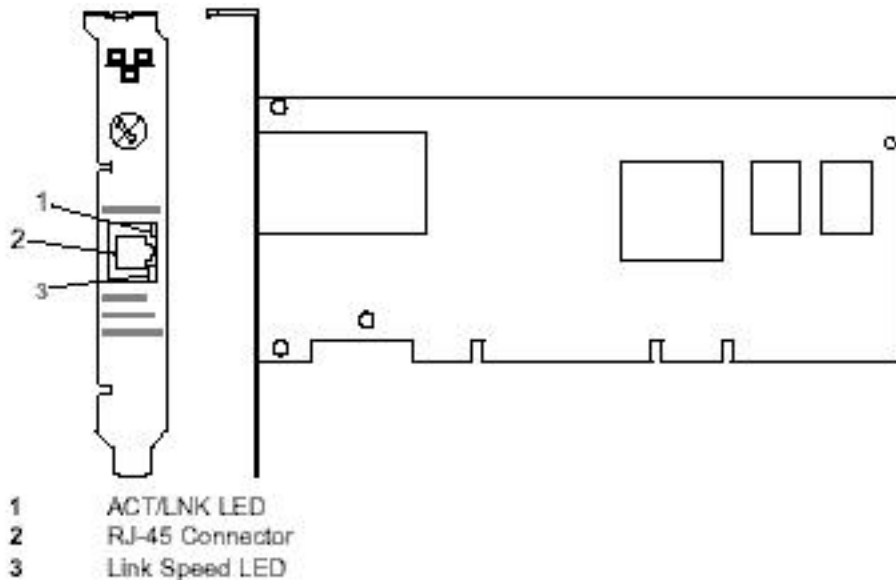
LED

OFF	- No Link/No Activity
ON Green	- Link, No Activity
Flasing Green	- Link, Activity

Created Feb 2003 by Bruno Croft

Last Updated: Jan 2004

10/100/1000 Base-TX Ethernet PCI-X Type 5701 - #5701



Links:

- 1 [See](#) current level of device driver `devices.pci.14106902.*`
- 2 [More info from Adapters Devices & Cable Manual](#) See Chap 1 Adap 5701
- 3 Installation and Using Guide [PDF](#)

FRU Adapter	00P6130, 00P4501, 00P3056
IO bus architecture	PCI 2.2 and PCI-X V1.0a compliant
Busmaster	Yes
ADAPTER SIZE	PCI short form
CONNECTOR	RJ-45
WRAP PLUG	RJ-45 00G2380
CABLE	Customer supplied, CAT-5 twisted pair bulk cables (TIA/EIA 568A recommended)

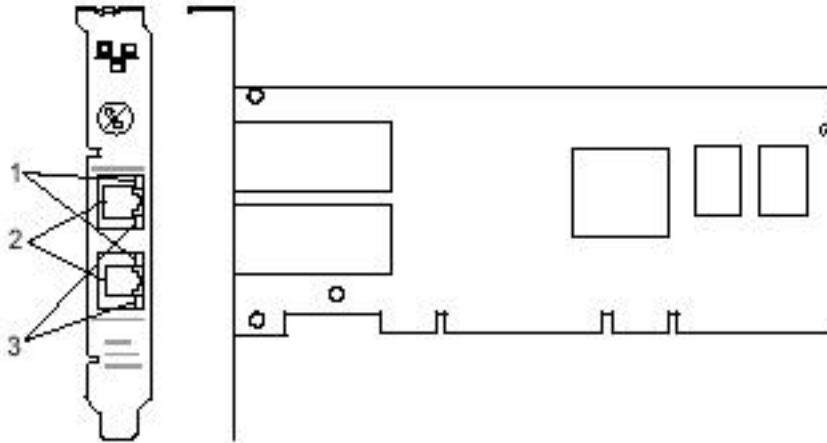
LED	Status	Description
1	GREEN	Good link
1	OFF	No link. Could be the result of a bad cable, bad connector, configuration mismatch, or not selected.
1	BLINKING	Data activity

3	OFF	10	Mbps
3	GREEN	100	Mbps
3	ORANGE	1000	Mbps

Created Feb 2003 by Bruno Croft

Last updated: May 2004 by Jef Goupil

Dual Port 10/100/1000 Base-TX Ethernet PCI-X Type 5706 - #5706 - Duval



Links: 1 [See current level of device driver devices.pci.14108902.*](#) 2 [More info from Adapters Devices & Cable Manual](#) See Chap 1 Adap 5706 3 [Installation and Using Guide PDF](#)

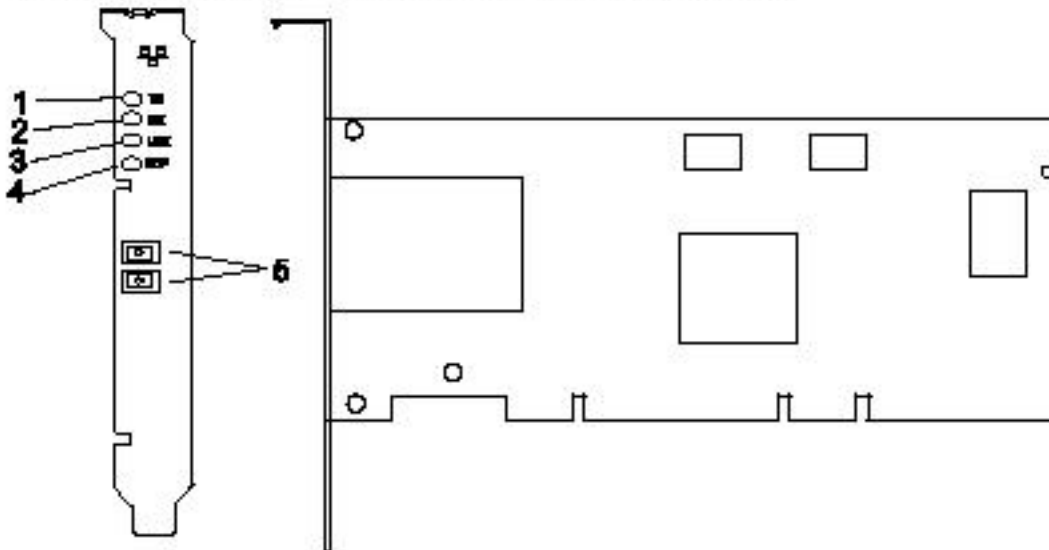
Software requirement: 5100 ML04 5200 ML01 FRU Adapter 00P4289 IO bus architecture PCI 2.2 and PCI-X V1.0a compliant Busmaster Yes ADAPTER SIZE PCI short form CONNECTOR 2 x RJ-45 WRAP PLUG RJ-45 00G2380 CABLE Customer supplied, CAT-5 twisted pair bulk cables (TIA/EIA 568A recommended)

LED Status Description

1 GREEN Good link 1 OFF No link. Could be the result of a bad cable. bad connector, configuration mismatch, or not selected. 1 BLINKING Data activity 3 OFF 10 Mbps 3 GREEN 100 Mbps 3 ORANGE 1000 Mbps *Created July 2003 by Bruno Croft Updated April 2004 by Bruno*

Type 5718 - #5718

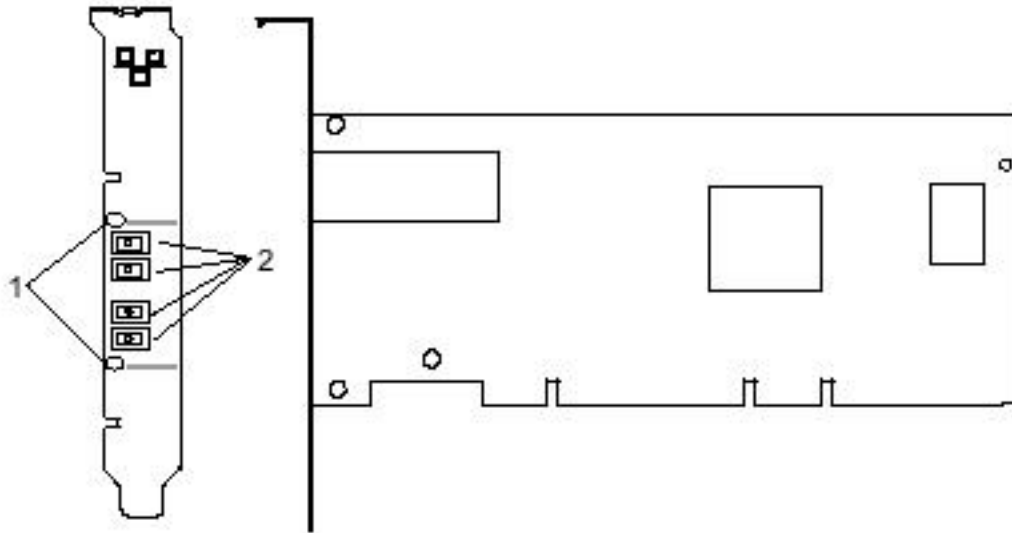
10 Gigabit Ethernet-SR PCI-X Adapter



1. TX Activity LED
2. RX Activity LED
3. Link LED
4. SDP LED
5. Multimode Fiber LC Receptacle

Links: [See](#) A04-0947 Announce Fileset: devices.pci.1410BA02.* Required: AIX 5.2 - No V4 support HACMP: ES 4.5, 5,1, 5,2 IEEE 802.3ae Slot: PCI-X only FRU Adapter 16R0599 - Thanks to Harald ! Wrap plug: 11P3847 LS-SC Cable converter 62.5 micron 11P1374 2 meters Publication: SA23-1331 *Created Oct 2004 Bruno Croft*

Dual Port Gigabit Ethernet-SX PCI-X Type 5707 - #5707



Links: [See current level of device driver devices.pci.14108802.*](#) [More info from Adapters Devices & Cable Manual](#) See Chap 1 Adap 5706 Installation and Using Guide [PDF](#)

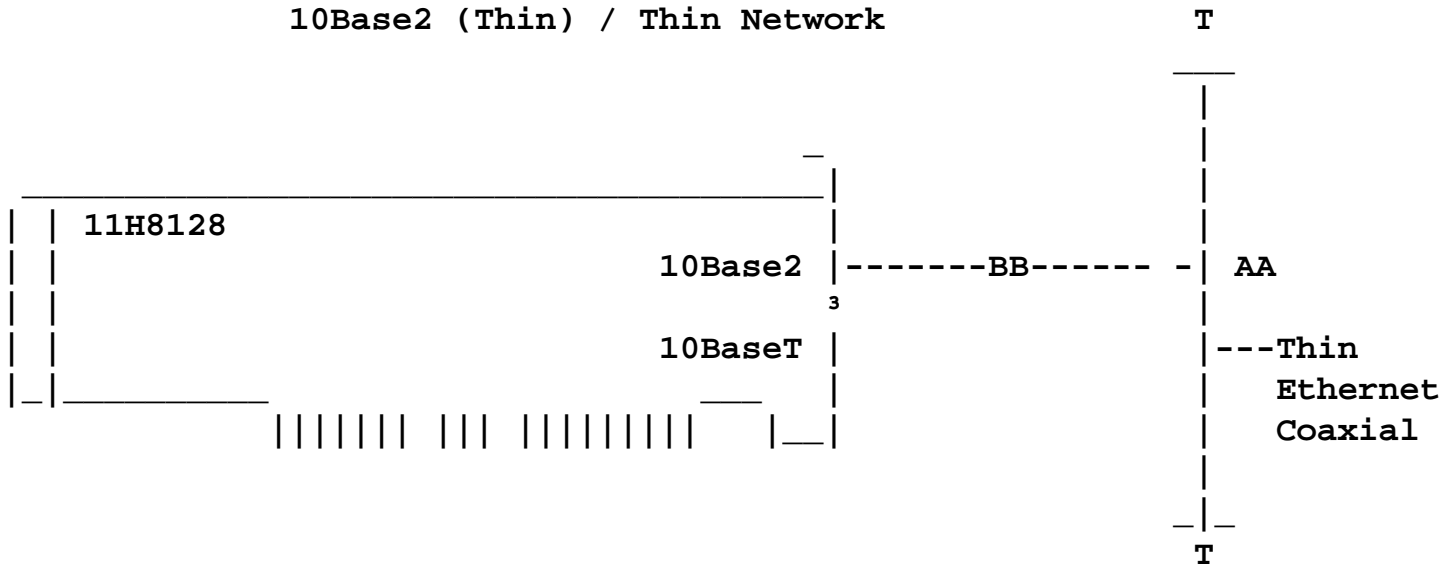
Software requirement: 5100 ML04 5200 ML01 FRU Adapter 00P4290 IO bus architecture PCI 2.2 and PCI-X V1.0a compliant Busmaster Yes ADAPTER SIZE PCI short form CONNECTOR LC fiber optic WRAP PLUG 11P3847 CABLE Customer supplied, LC-SC 62.5 CAT-5 twisted pair bulk cables (TIA/EIA 568A recommended)

Green LED status Description

Off No link / No activity Solid link, no activity Flashing Link and activity *Created July 2003 Bruno Croft Updated August 2003*

Ethernet PCI T2 Adapter Type 8-Y - #2985

10Base2 (Thin) / Thin Network



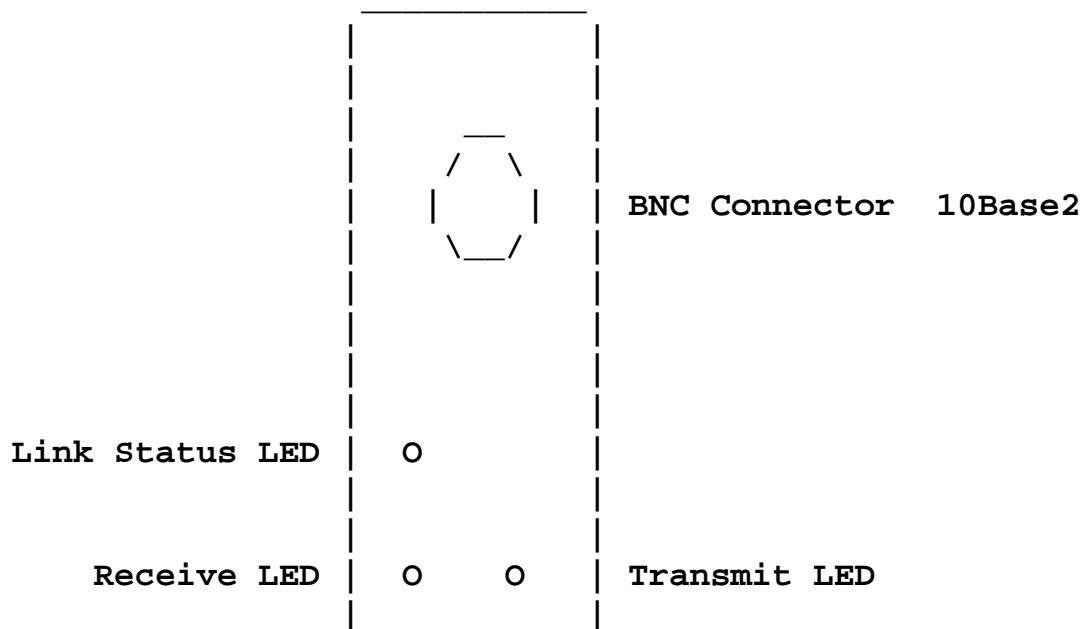
BB Coax Cable 16.4ft.....6245998

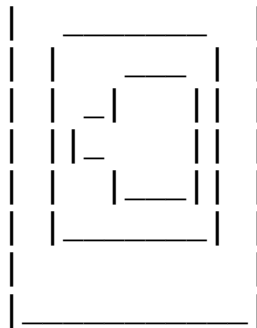
WW Wrap Plug Thin BNC 25ohms..... 70F9626

AA T or L-Connector Customer-supplied

T Terminator 50ohm, Customer-supplied

Connector View





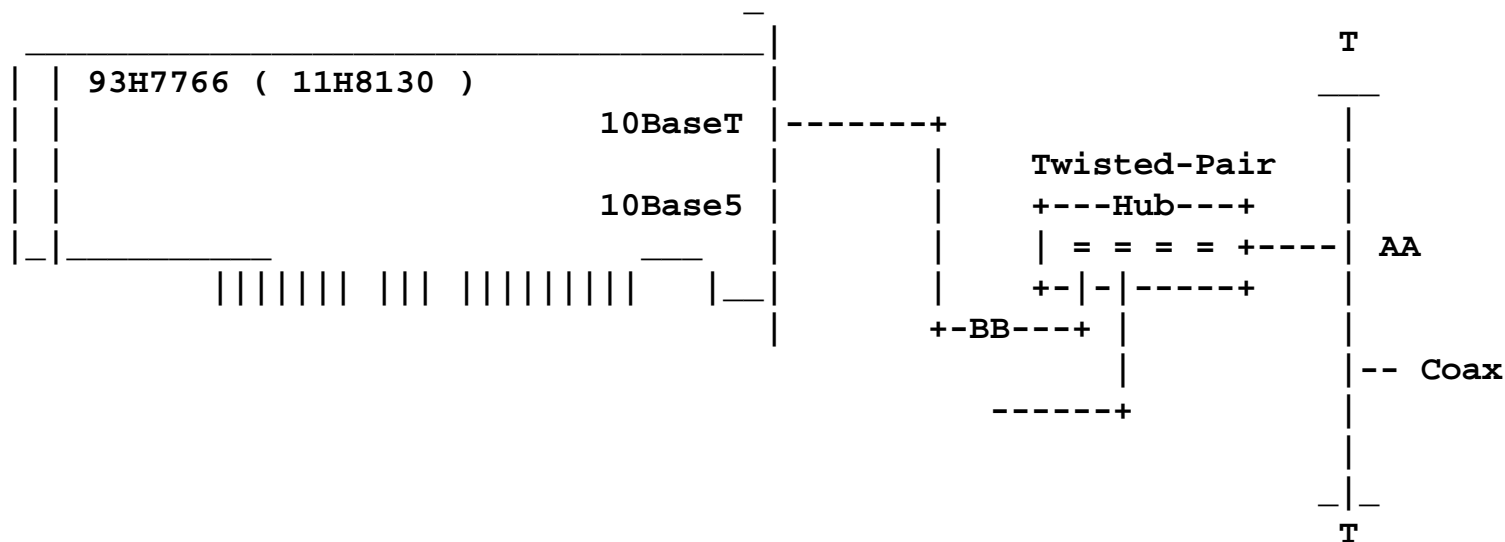
RJ-45 Connector 10BaseT

Updated Dec 18 2000 by Bruno Croft

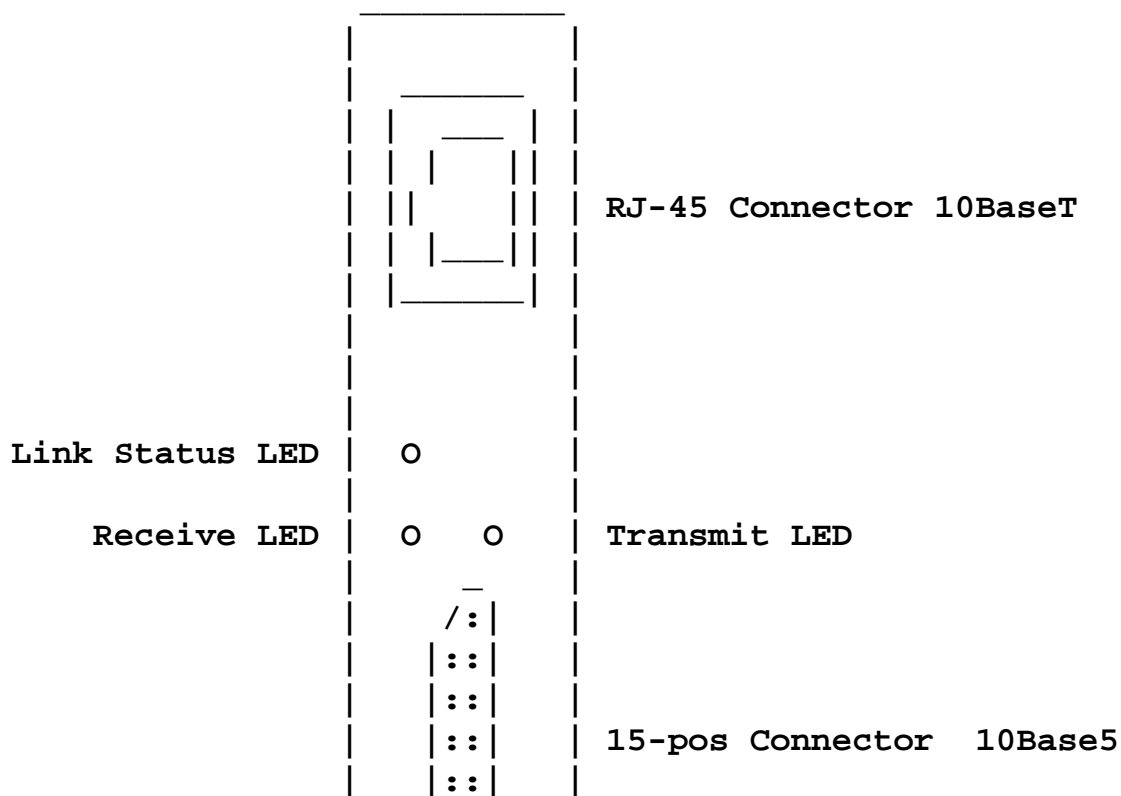
Ethernet PCI T5 Adapter Type 8-Z - #2987

- Fileset: devices.pci.22100020.*

10BaseT - Twisted-Pair Network

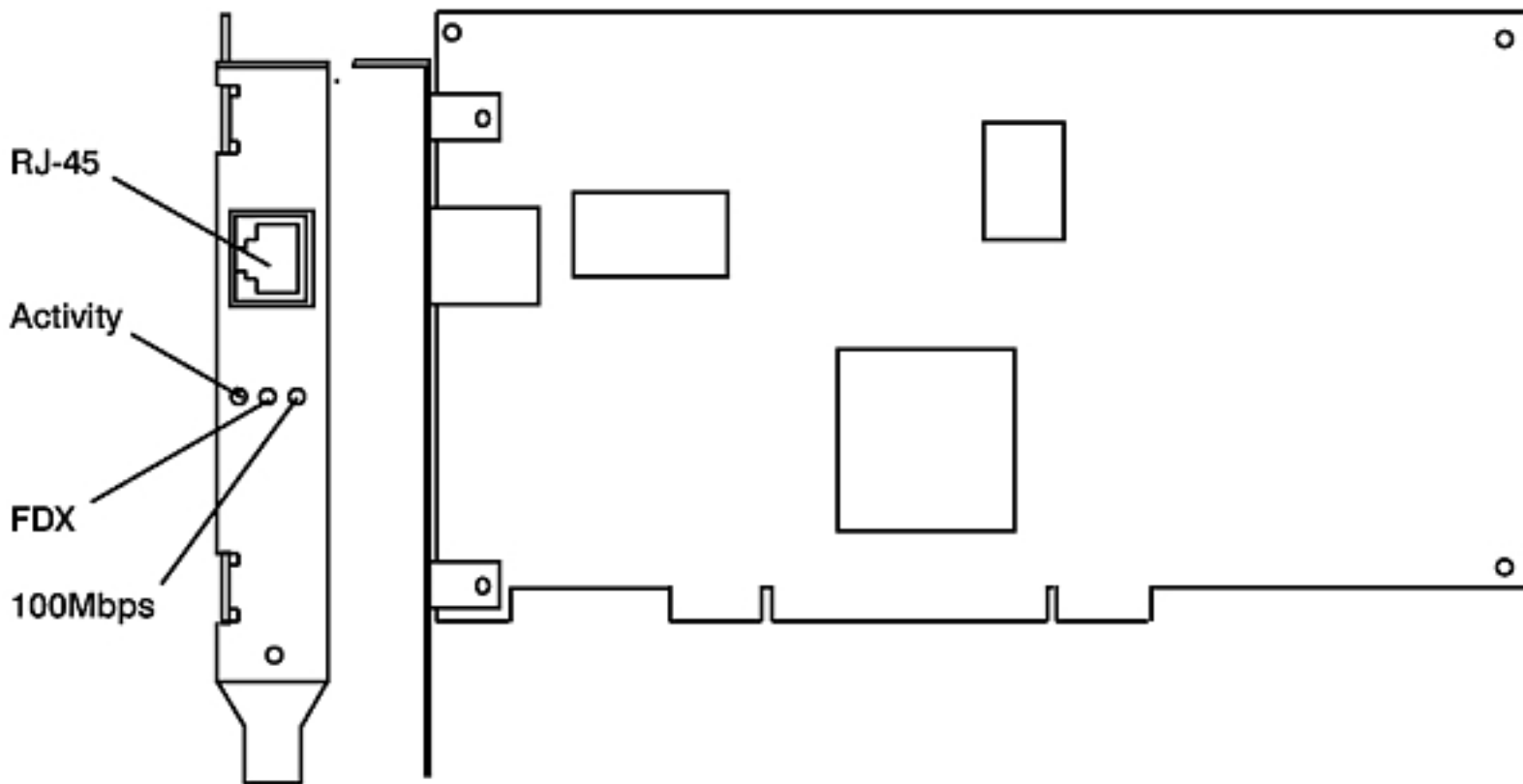


Connector View





10/100 Ethernet Tx PCI Type 9-P #2968



Filesets: [devices.pci.23100020.*](#)

[Browse/Download Adapters Devices & Cable Manual](#)

(Expand Chapter 1 Adapter Information then select 9-P)

Adapter FRU	94H0823 (91H0397)
Busmaster.....	Yes
Cables.....	Customer supplied
Wrap Plugs RJ-45..	00G2380

LED

Activity (green)	->	Transmit or receive activity
FDX (green)	->	full duplex operation
100 Mbps (yellow)	->	100 Mbps operation

To change speed without rebooting:

```
ifconfig enX down detach
ifconfig enX down detach
rmdev -l enX
rmdev -l etX
```

smitty adapter

adapter

Change/Show...

Do change and ENTER

mkdev -l enX

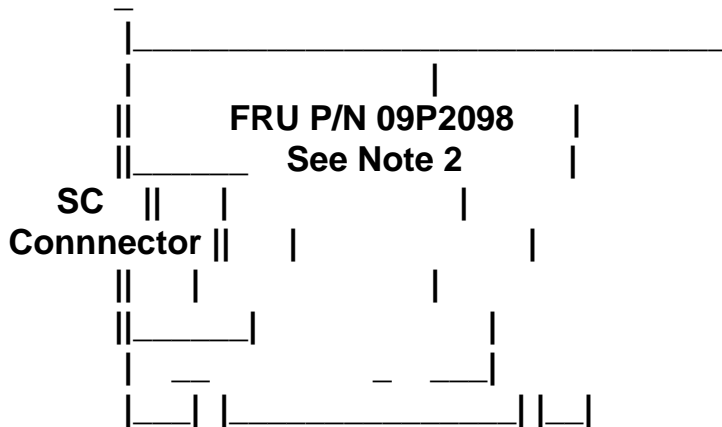
mkdev -l etX

Created: 07/06/98

Updated: May 2003 Bruno Croft

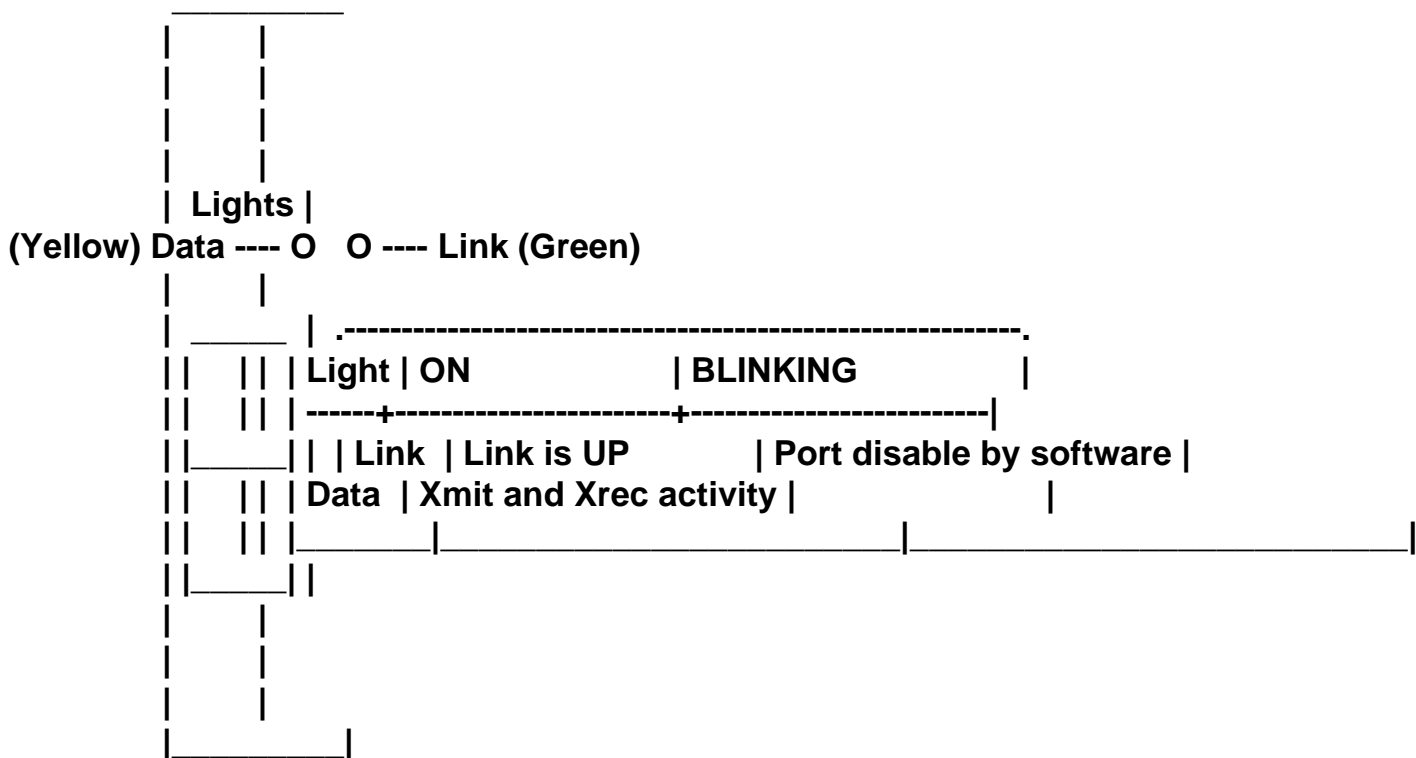
Gigabit Ethernet-SX PCI Adapter Type 9-U #2969 (#1117 for SP2)

[See](#) current level of fileset device driver devices.pci.14100401.*



FRU: 09P2098, 41L6396, 07L8916
07L8918

Connector View



I/O bus architecture PCI 2.1 compliant**Busmaster Yes****Maximum Number:****7025-F50..... 2 - 32-bit only, 1 per PCI bus****7026-H50..... 2 - 32-bit only, 1 per PCI bus****7043-260..... 2 - 64-bit only PCI slots****7017-S70/S7A.... 64-bit only, 1 per PCI bus,
4 per I/O drawer, 8 per system****Adapter size PCI short form****Connector info SC Fiber optic****Wrap plug SC Fiber optic - 21H3547****Cables Customer supplied****Cable Length**

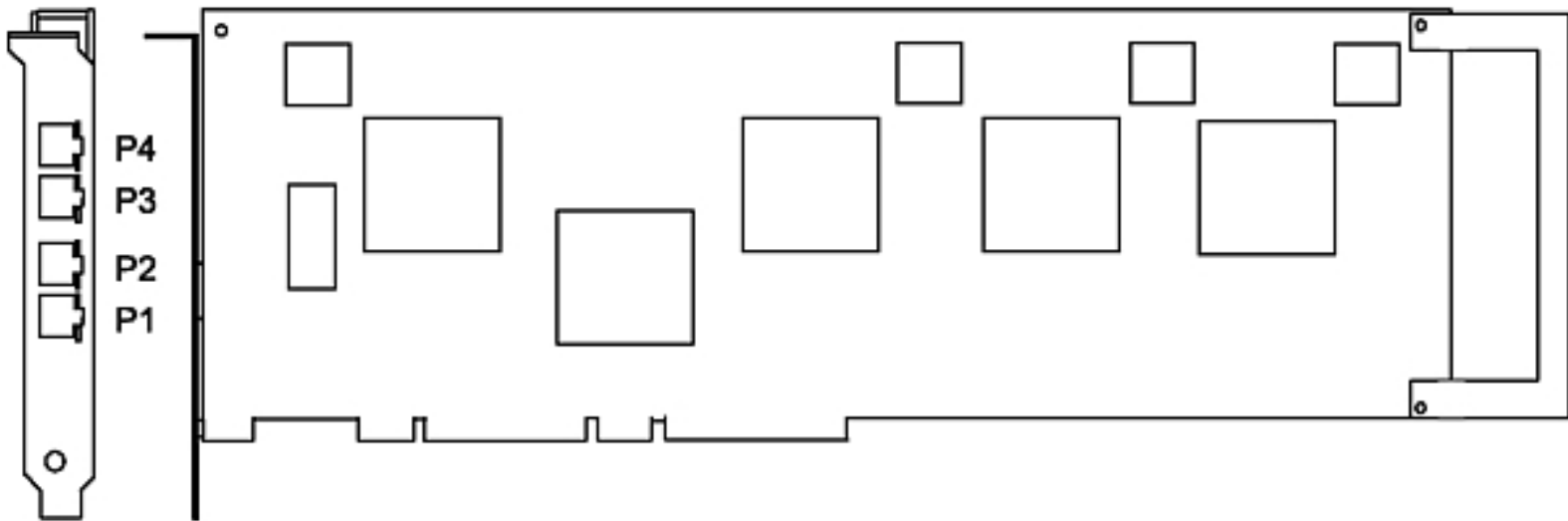
Fiber Type	Model bandwidth(MHZ-km)	Range
62.5 um MMF	160	2 to 200
62.5 um MMF	200	2 to 275
50 um MMF	400	2 to 500
50 um MMF	500	2 to 500

**NOTE 2: Some VPD erroneously reports the P/N 07L8918 in the FRU field.
07L8918 is not a valid FRU, 07L8916 is and it subs to 09P2098**

Created: September 09 1999 by Bruno Croft

Last Updated: Oct 2002 by Bruno Croft

4-Port 10/100 Bas-TX Ethernet Type 9-Z #4951



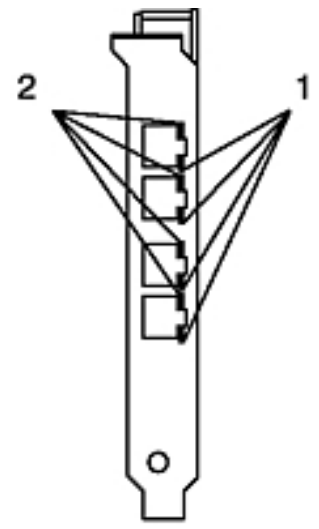
- [See](#) current level of device driver `devices.pci.23100020.*`
- [More info from Adapters Devices & Cable Manual](#)
- Installation and Using Guide [html](#) | [pdf](#)

FRU Adapter 03N3952
Wrap Plug 00G2380
Busmaster Yes
Connector 8pos RS-45

LED
1 Green - 100Mbps operation
2 Yellow - Xmit Xrec activity

IY05235 `devices.pci.23100020.rte.4.3.3.10` minimum

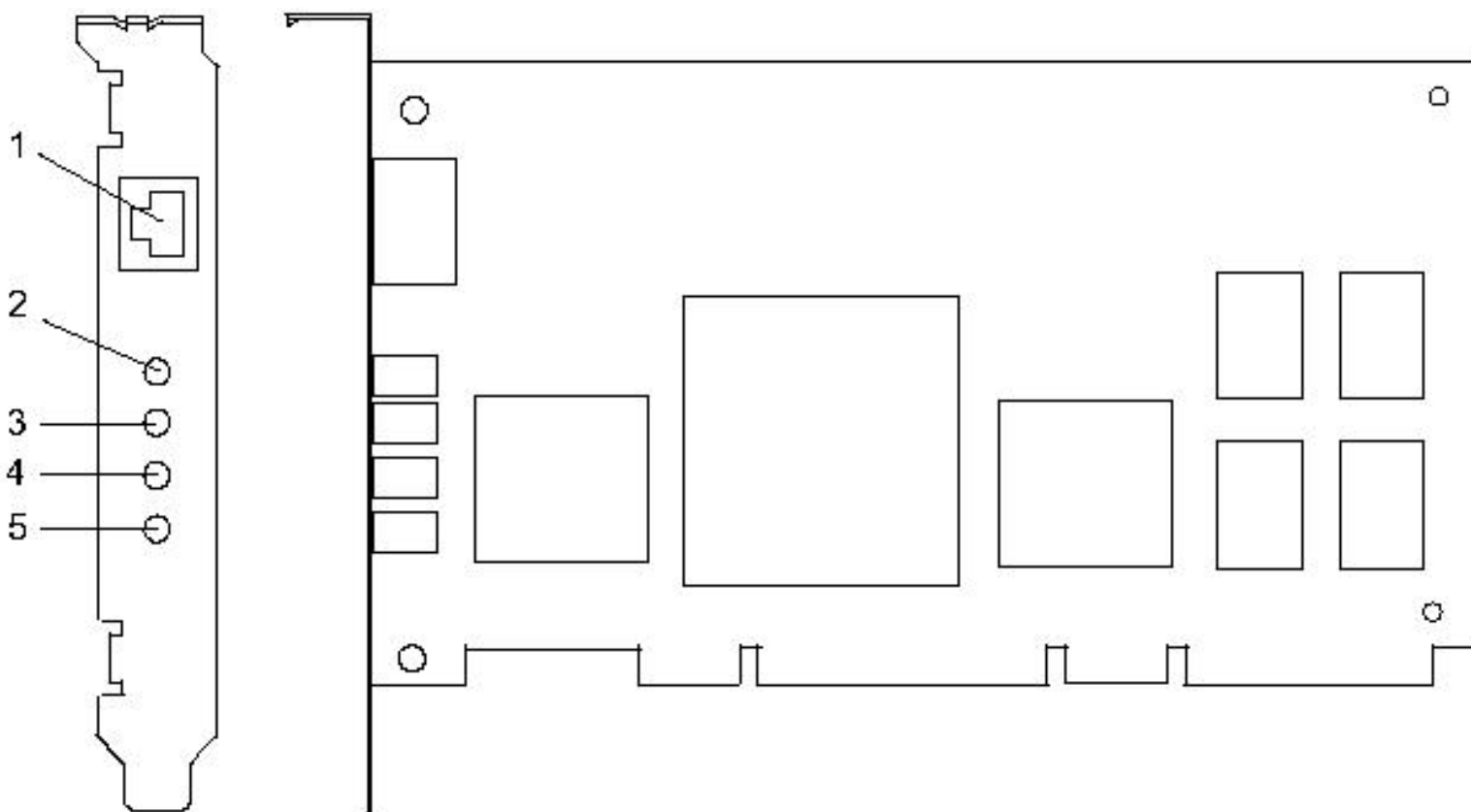
Supported on: 7043-140/150 7046-B50 and some newer models



Updated Nov 24 2000 by Bruno Croft

10/100/1000 Base-T Ethernet Type A-A #2975

- Software requirement: [devices.pci.14100401.4.3.3.25](#)
- [Announcement letter](#)
- Installation and Using Guide in [PDF](#)



FRU Adapter 00P1690

wrap plug: 00P1689 Busmaster Yes

Connector 8pos RS-45

LED

1 RJ-45

2 Yellow - data activity

3 Green - 1000 Mbps

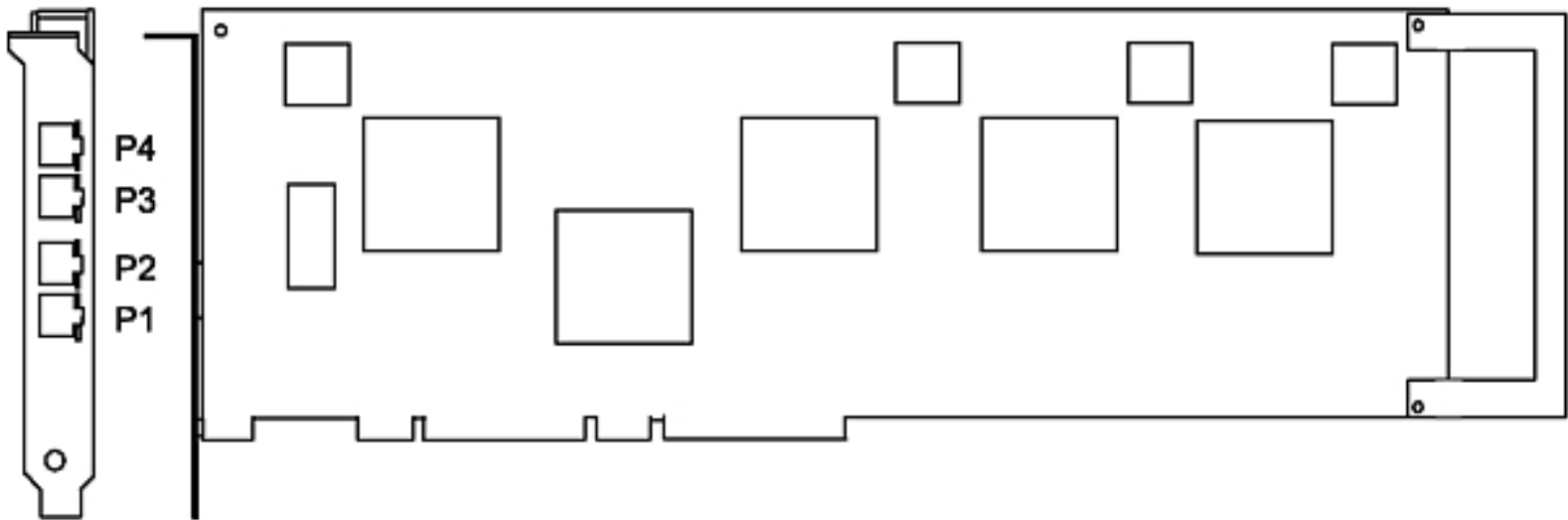
4 Green - 100 Mbps

5 Green - 10 Mbps

Created April 26 2001 by Bruno Croft

Updated Dec 2003 by BJ Croft

4-Port 10/100 Ethernet Base-TX Type A-E - #4961

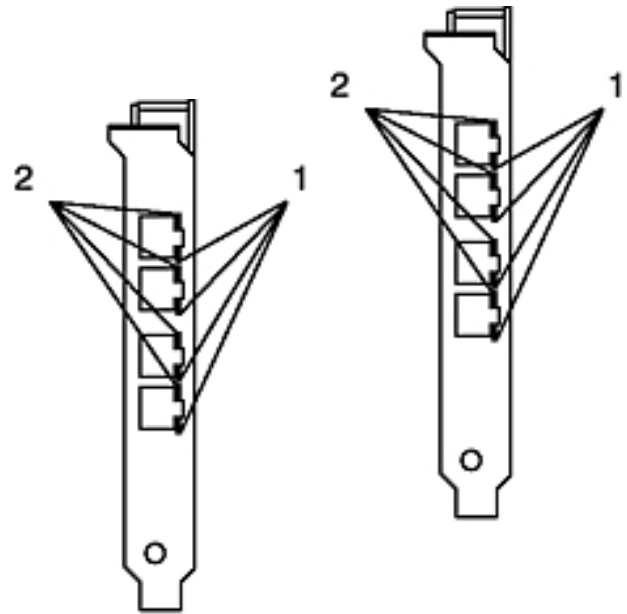


- `devices.pci.23100020.*` at [Fix Central](#)
- Installation and Using Guide in [PDF](#)

FRU Adapter 09P1421
Wrap Plug 00G2380
Busmaster Yes
Connector 8pos RS-45

LED

1 Green - 100Mbps operation
2 Yellow - Xmit Xrec activity



replacement for the #4951

Updated Nov 2004 by Bruno Croft

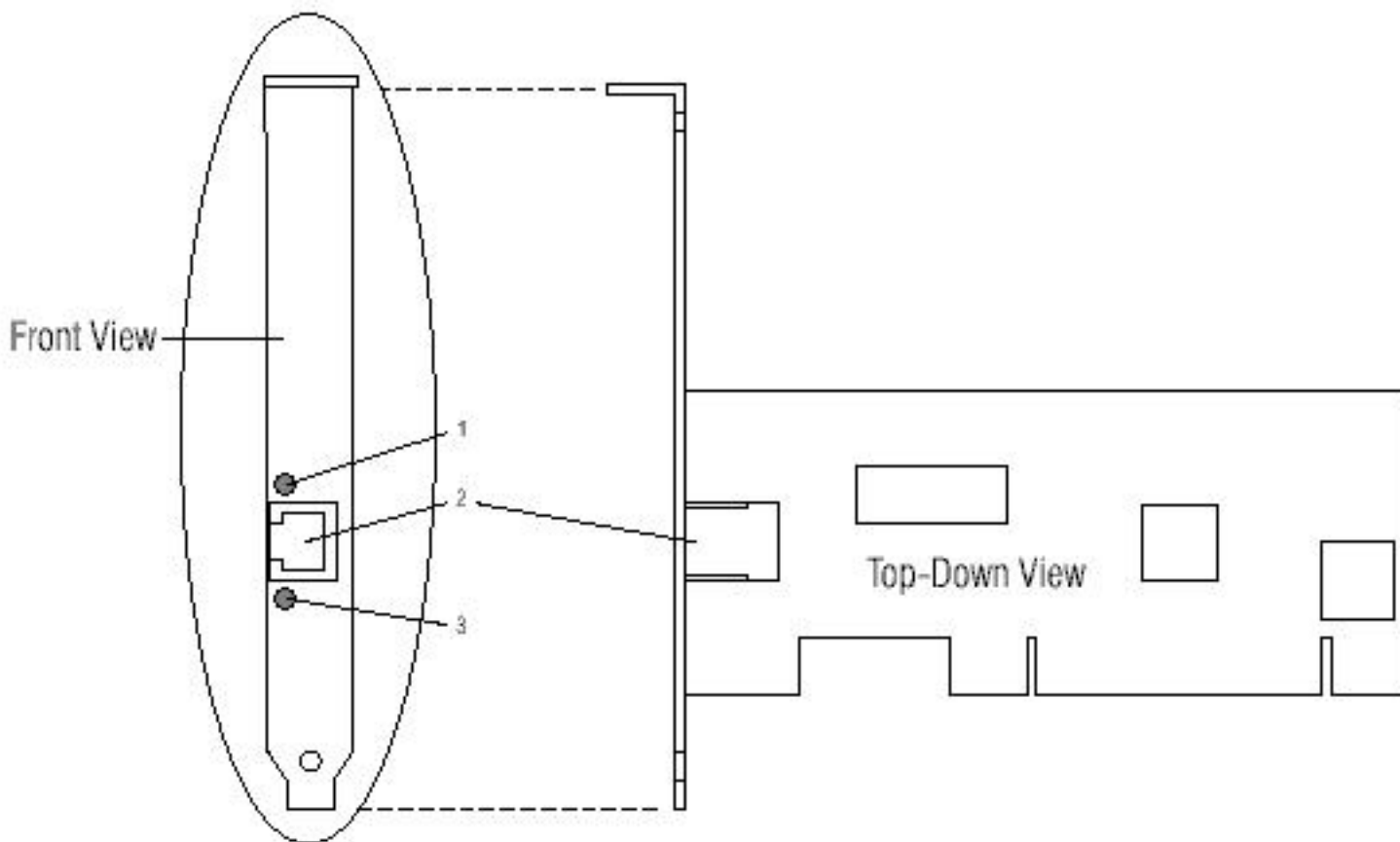
10/100 Ethernet II Type A-F #4962 - Scurry - FFC 2530

- See current level of: [devices.pci.1410ff01.*](#)

NOTE: This fileset is not included on the AIX Base CD 4.3.3 LCD4-0286-06.

Use LCD4-0286-07 released september 2001

- [More info from Adapters Devices & Cable Manual](#)



- 1 ACT/LINK LED
- 2 RJ-45 connector
- 3 100 TX LED

Adapter FRU 09P5023, 09P3196

Busmaster..... Yes

Cables..... Customer supplied

Wrap Plugs RJ-45.. 00G2380

Created: Oct 17 2001

Updated: Dec 27 2001

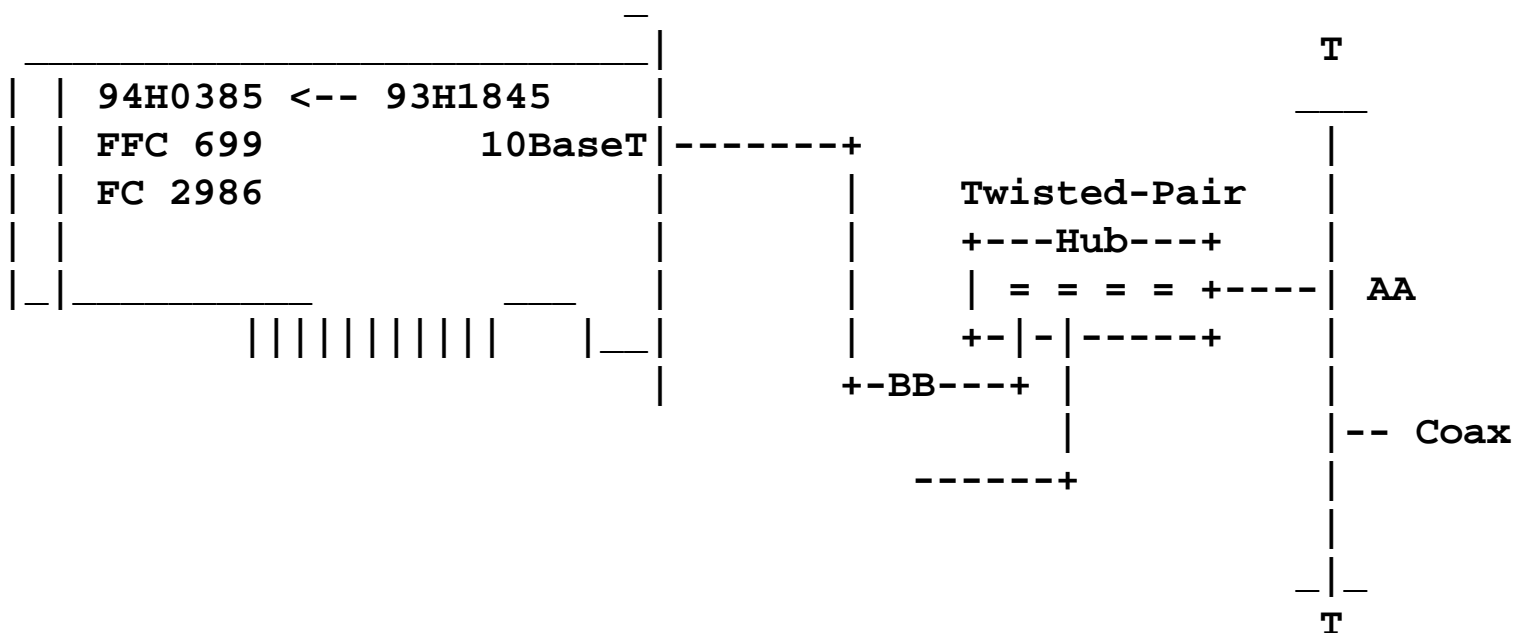
3Com 3C905 Fast EtherLink XL PCI 10/100 Ethernet Adapter #2986

Shipped diskettes

AIX 4.1 / 4.2 / 4.3 Files --> /usr/lpp/devices.pci.b7105090.rte
/usr/lpp/devices.pci.b7105090.diag
/etc/drivers/pci/v3boomdd

7025-F40 RETAIN tip H161079 Must be installed in slot 1-3

Supported on all RS/6000 machines that use the PCI bus
except the Model 43P Series 7248-100, 120 and 132

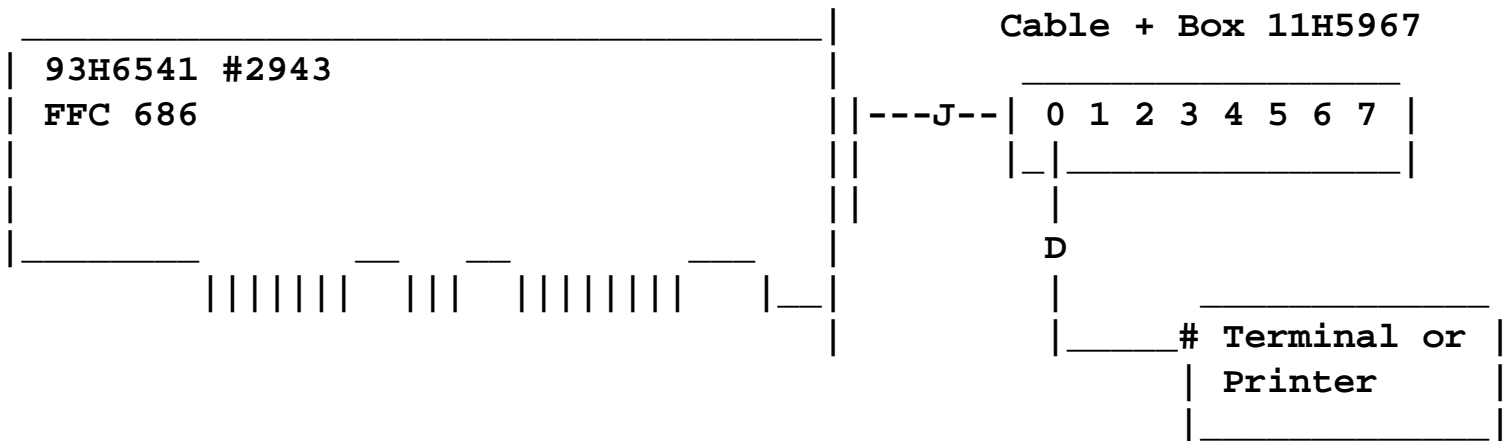


Device driver Web Site:3 [OEM device driver](#)(See the README)

8-Port Asynchronous EIA-232E/RS-422A PCI Type 3-B #2943

Fileset: devices.pci.4f111100

This adapter is not supported on the 64-bit kernel of AIX 5.2

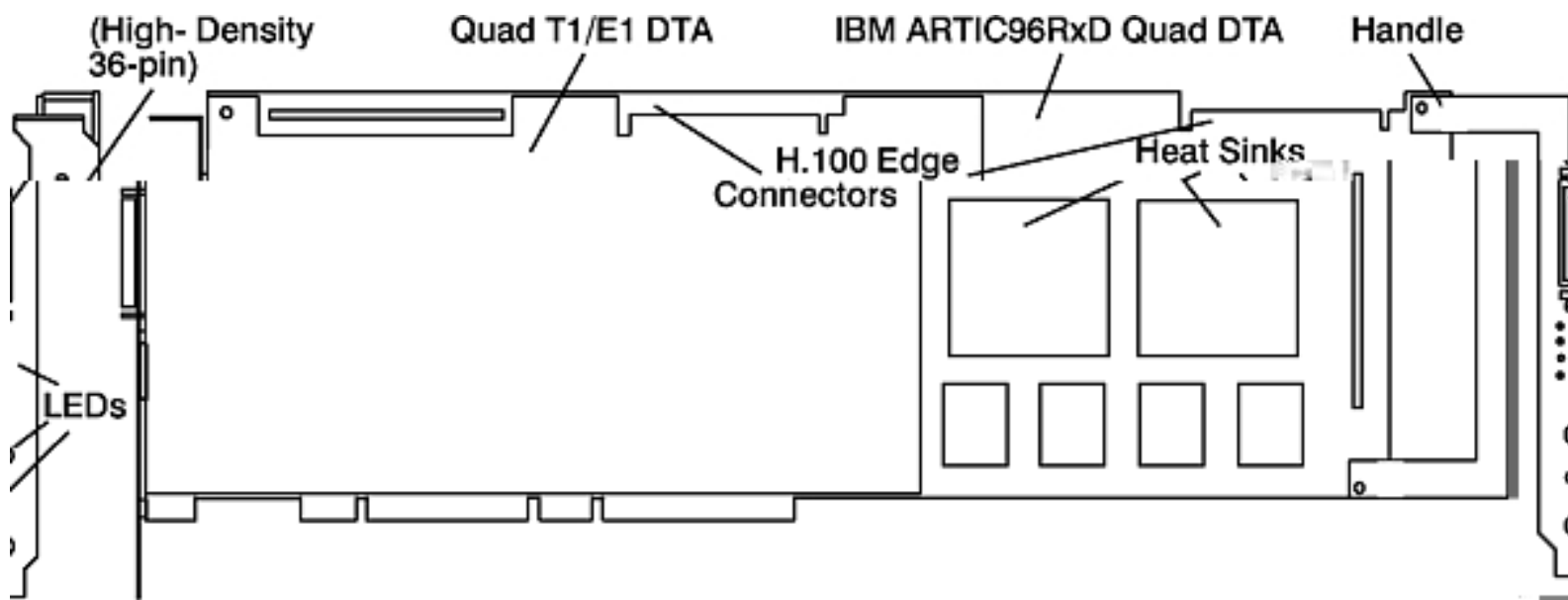


- D- Cable Terminal.... 12H1204 (10ft) #2934
- Modem..... 6323741 (10ft) #2936
- J- Cable + Box..... 11H5967 included with adapter #2943
- Wrap Plugs: 78pin.... 22F9694 (Card)
- 25pin. 6298964 (Port)

Update March 2004

PCI ARTIC960RxD Quad Digital Trunk Type 6-E - #6310

Provides attachment to T1 or E1.



Fileset: [devices.pci.artic960.rte](#)

Ignore any other names when running cfmgr like:
devices.pci.1410d200 or devices.pci.86806019.
They are bogus non-ibm fileset names.

Component	FRU
RxD Quad DTA....	87H3734
Quad T1/E1 DTA..	09J8829
Wrap Plug.....	87H3502
Busmaster.....	Yes

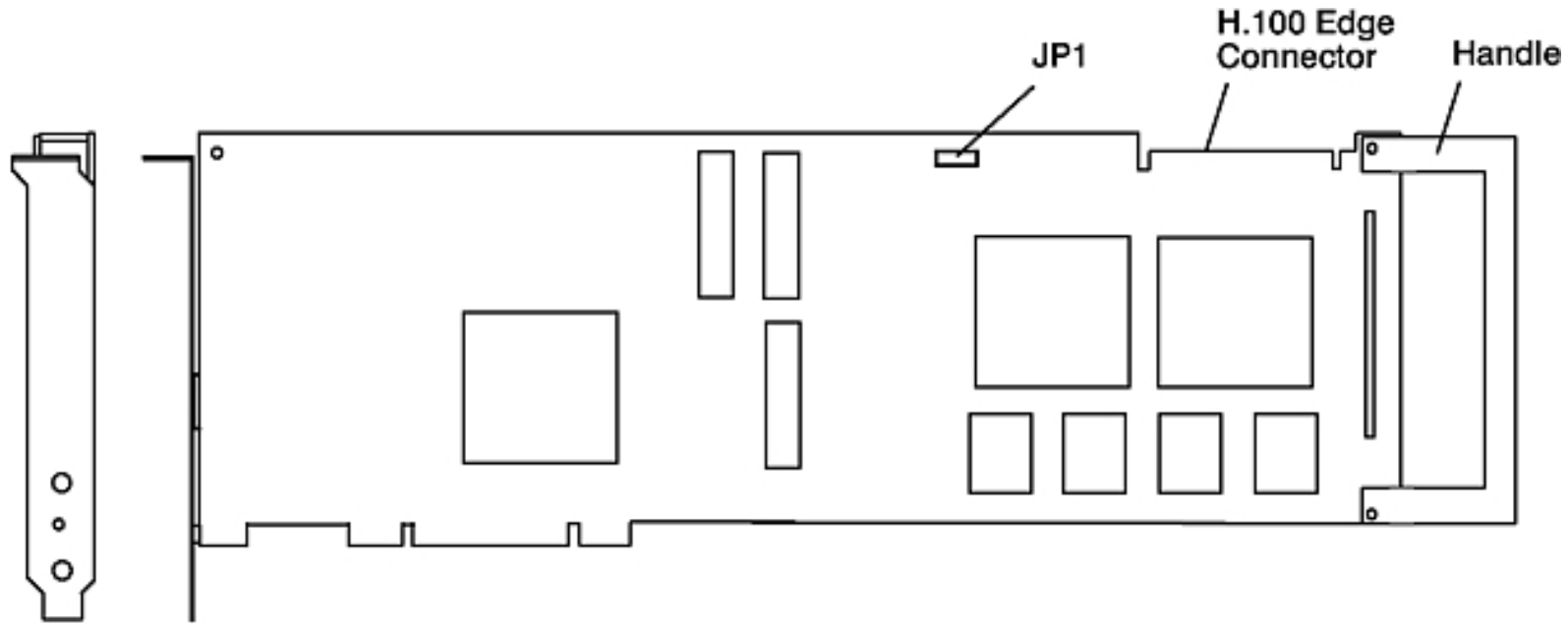
Cabling:

#2809	PS	T1, RJ-48	87H3518	1.8m	6ft
#2710	E1,	RJ-48	87H3515	1.8m	6ft
#2871	RP	T1, 100ohms	87H3793	3m	10ft
#2872	RR	T1, extension	87H3791	15m	50ft
#2873	RS	E1, 120ohms	87H3790	3m	10ft
#2874	RT	E1, 120ohms	05F2045	7.5m	25ft
#2875	RU	E1, 75 ohms	87H3521	1.8m	6ft
#2876	RV	E1, 75 ohms	87H3629	1.8m	6ft
#2877	RW	H.100, 4-drop	08L1215	0.127m	3-inch
#2878	RX	SC-Bus, 5-drop	08L1217		

#2879 Ry H.100 4-Drop 08L1219 0.176 7-inch

Updated: Nov 2003 by Bruno Croft

PCI ARTIC960Rx F Digital Trunk Resource Type 6-G - #6311



- [More info from Adapters Devices & Cable Manual](#)

Adapter..... 47L8851

Busmaster..... Yes

Cabling:

#2877	RW	H.100, 4-drop	08L1215	0.127m	3-inch
#4353		H.100, 8-drop	03N3493		

Updated Nov 16 2000 by Bruno Croft

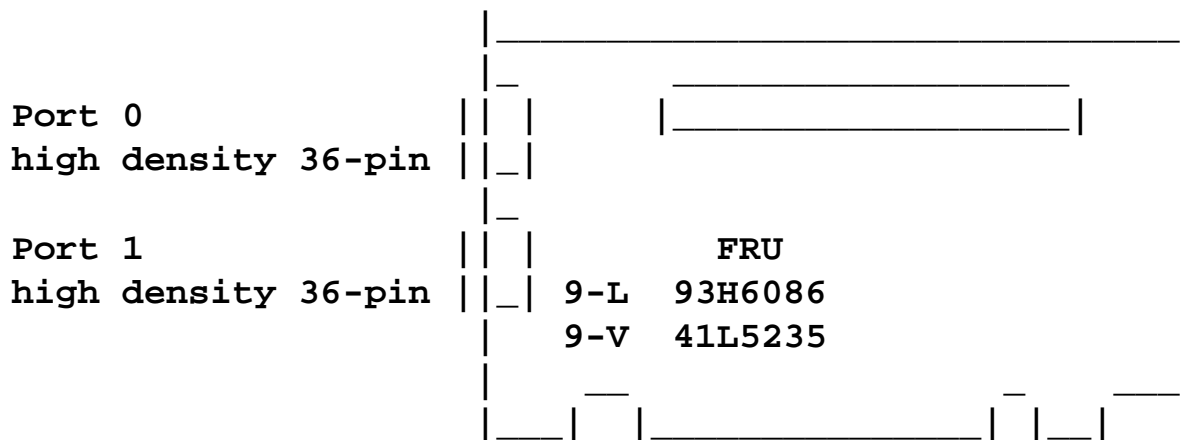
2-Port Multiprotocol PCI Adapter/A

Type 9-L and 9-V #2962

NOTE: Excerpt from the Supplemental Information for: Adapters, Devices and Cable Information for Multiple Bus Systems SN32-9065-01: "Attention: There are two versions of this adapter. They do the same function and share the same feature code. However, they require different device driver so they are not plug replacable. For more information on the 2-Port Multiprotocol Adapter see the 2-Port Multiprotocol PCI Adapter Installation and User,s Guide, which is a customer-installable option booklet that came with your system unit or or the adapter."

... So I'm not sure if the below filesets also applied to the 9-V.

Filesets: devices.pci.331121b9.* AIX 4.2 / 4.3
 devices.common.IBM.hdlc.* (for SNA)
 bos.dlc.sdlc



Cable Name	Protocol	P/N	F/C	Connector Adpt<----->device
PA	V.24/EIA-232	93H5263	#2951	36-pin to DB-25 male
PB	V.35	93H5264	#2952	36-pin to 34-pin male
PC	V.36/EIA-449	93H5265	#2953	36-pin to 37-pin male
PD	X.21	93H5267	#2954	36-pin to DB-15 male
				Wrap Plug 93H3662

LED

Off

Port not loaded. Config of protocol and

interface not

read by device driver.

Flash

Up xmit and xrcv

On

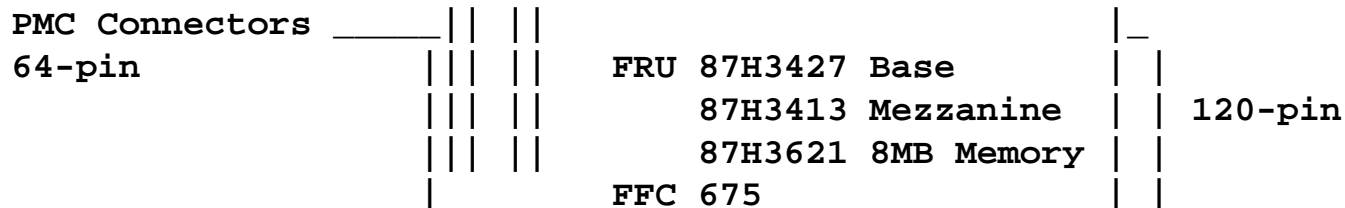
Connection Good

ARTIC960Hx 4-Port Selectable PCI Adapter/A

Type 9-R #2947

Fileset: devices.artic960.rte 1.2.0.0 Installation and User's Guide 07L8796

Web Site: <http://www.radisys.com/products/artic>



PMC = PCI Mezzanine Card

Wrap Plugs: for 120-pin connector..... 87H3311
 for 25-pin EIA-232 or EIA-530.... 87H3439
 for 34-pin V.35 DTE..... 87H3442
 for 37-pin RS-449..... 87G3440
 for 15-pin X.21..... 53G0638

Cables for Mezzanine Card

Electrical Interface	FRU P/N	FC	Type	Maximum Speed / port
EIA-232 (ISO 2110)	87H3405	#2865	25pin	38.4Kbps USA Only 19.2Kbps Outside USA
EIA-530 (ISO 2110)	87H3402	#2861	25pin	2.048Mbps
V.35DTE (ISO 2593)	87H3399	#2864	34pin	2.048Mbps USA only 64Kbps Outside USA
RS-449 (ISO 4902)	87H3396	#2862	37pin	2.048Mbps
X.21 (ISO 4903)	87H3408	#2863	15pin	2.048Mbps

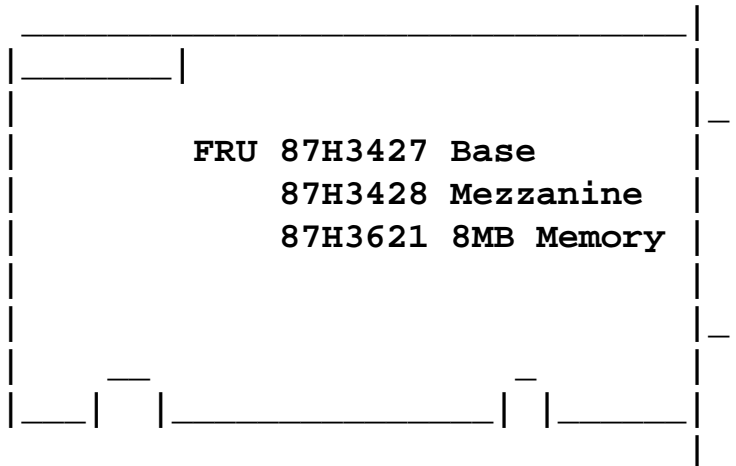
ARTIC960Hx 4-Port T1/E1 PCI Adapter/A

Type 9-S #2948

Fileset: ?

?

SC Bus Connector P3
26-pin SC-Bus



36-pin D-Shell

Wrap Plugs:

- for 36-pin connector..... 87H3502
- for RJ-48..... 87H3588

Cables for Mezzanine Card

Electrical Interface	FRU P/N	FC
T1 RJ-48	87H3518	#2709
E1 RJ-48	87H3515	#2710
Surge Protection - RJ48	87H3651	

ARTIC960Hx DSP Resource - Type 9-7- #2949

Adapter Name: ARTIC960Hx DSP Resource

Type: 9-P

FRU Number: 87H3427 Base Adapter

DSP Resource : 87H3701

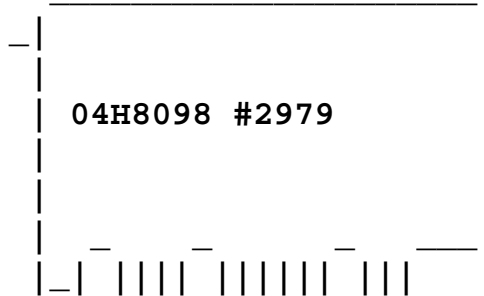
DRAM Memory See Adapter 9-S

Auto LANstreamer Token-Ring PCI Adapter

Type 8-T #2979

AIX fileset: devices.pci.14101800.*

RJ-45
Connector



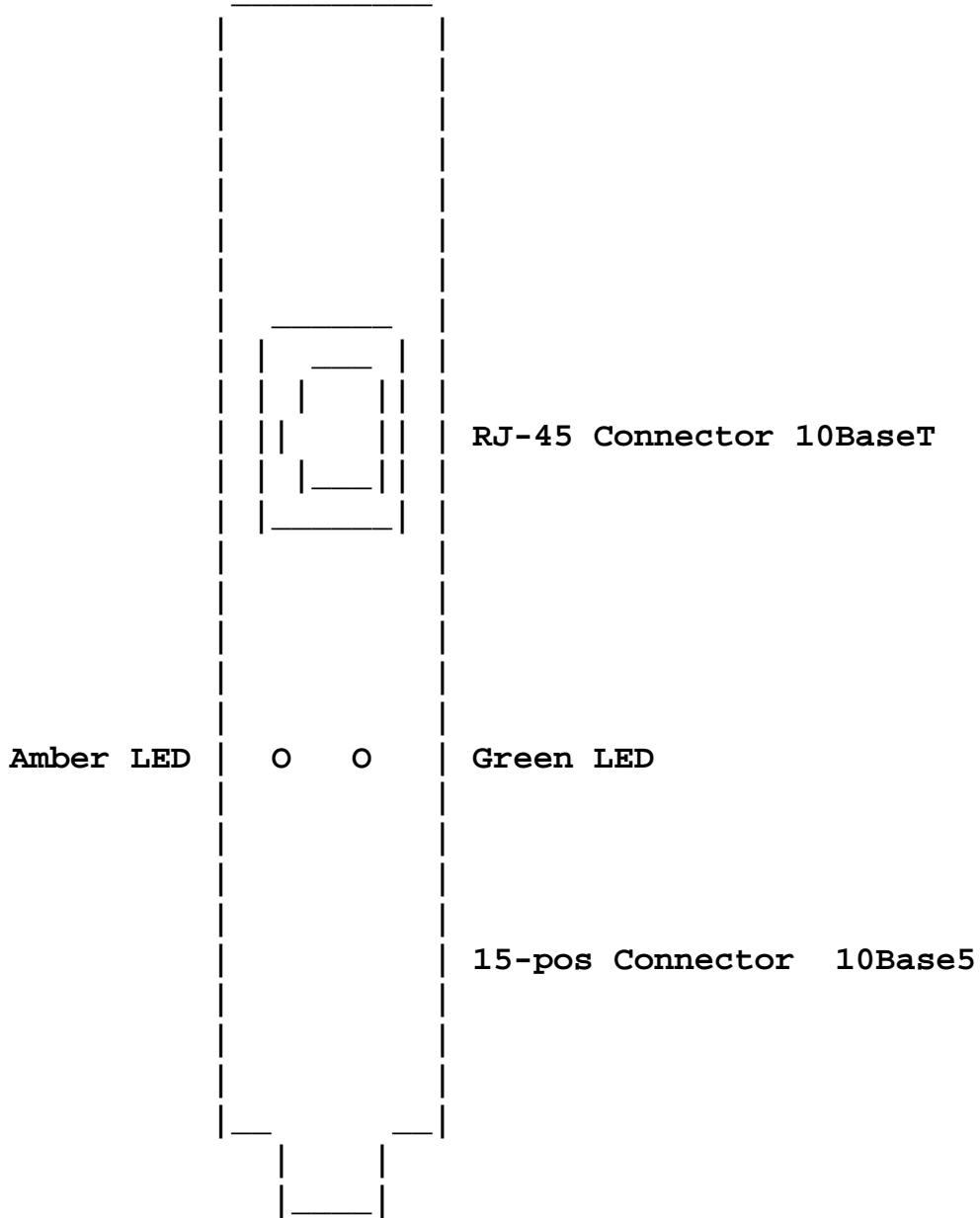
4Mbits or 16Mbits auto detected by program

C A B L E S

P/N	Length	Description Adapter end to network end
60G1063	10ft	RJ-45 8pos to STP (square block connector)
60G1066	1ft	RJ-45 to STP/D D-Shell 9pos female (supplied with adapter)

| 6339098 | | 9pos D-Shell male to STP

Connector View



Amber

Green

Blink

Blink

The adapter is waiting for initialization

Off

Off

The adapter initialization is in progress or the system unit is powered off.

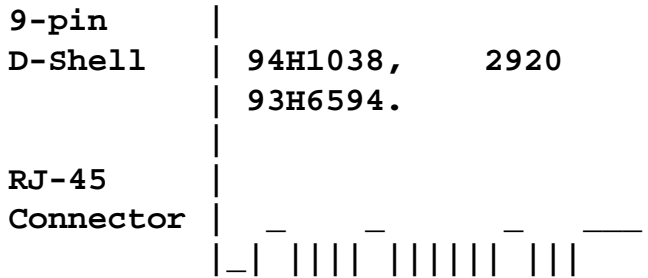
Off	Blinkink	The adapter did not detect any problems during its
		self-diagnostic tests and is waiting to open.
Off	On	The adapter is opene and operating correctly
On	Off	The adapter self-diagnostic tests failed
Blinkink	On	The adapter has detected beaconing or a hard error.
On	On	THE adapter has failed

Updated: August 01 2000 b Bruno Croft

Token-Ring Adapter

Type 9-O #2920

AIX fileset: devices.pci.14103e00.*

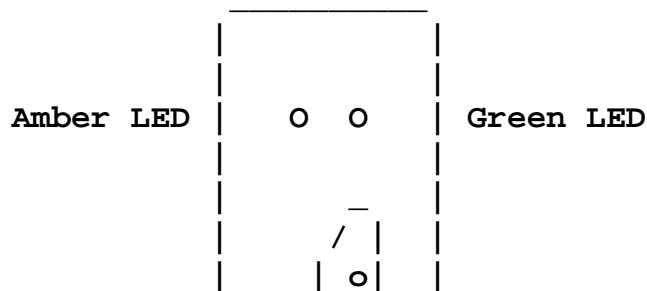


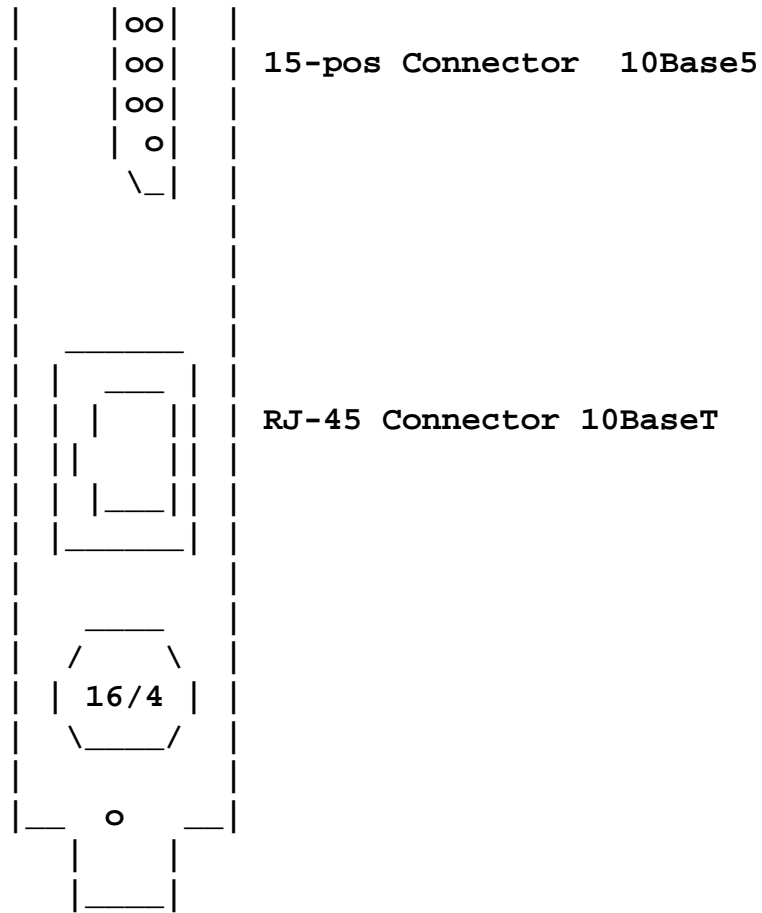
4Mbits or 16Mbits auto or manual by program

C A B L E S

P/N	Length	Description Adapter end to network end
60G1063	10ft	RJ-45 8pos to STP (square block connector)
60G1066	1ft	RJ-45 to STP/D D-Shell 9pos female (supplied with adapter)
6339098		9pos D-Shell male to STP

Connector View





Amber	Green	
Blinkink	Blinkink	The adapter is waiting for initialization
Off	Off	The adapter initialization is in progress or the system unit is powered off.
Off	Blinkink	The adapter did not detect any problems during its self-diagnostic tests and is waiting to open.
Off	On	The adapter is opene and operating correctly
On	Off	The adapter self-diagnostic tests failed
Blinkink	On	The adapter has detected beaconing or a hard error.
On	On	THE adapter has failed

Created 06/26/98 Last Update March 2004

100Mbps Token-Ring PCI Adapter

Type 9-Y #4959

AIX fileset: devices.pci.14103e00

[Microcode Update](#)

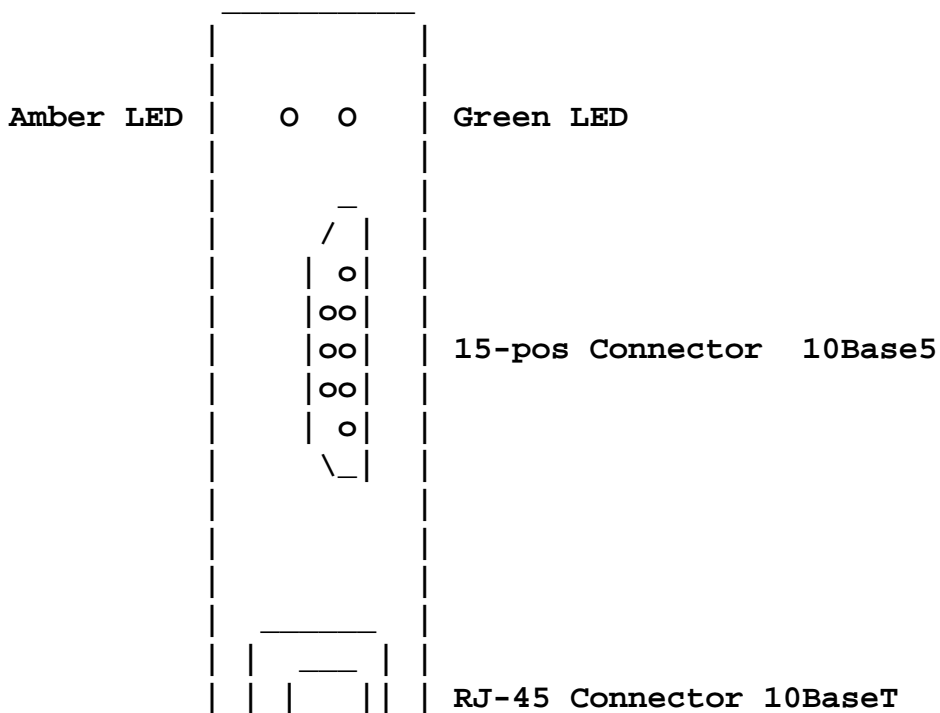
9-pin	FRU	09P4146	#4959
D-Shell		00P1476	#4959
		03N3554	
RJ-45 Connector			

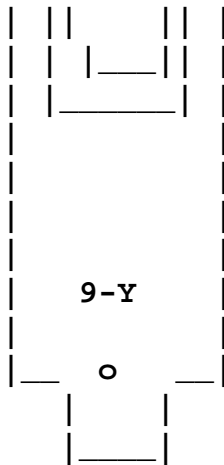
- Automatic ring speed selection 100, 16, 4 Mbps
- Half or Full Duplex

C A B L I N G

FRU	Length	Description Adapter end to network end
6339098		9pos D-Shell male to STP
04H7648, 6165899.		Wrap plug for diagnostics

Connector View



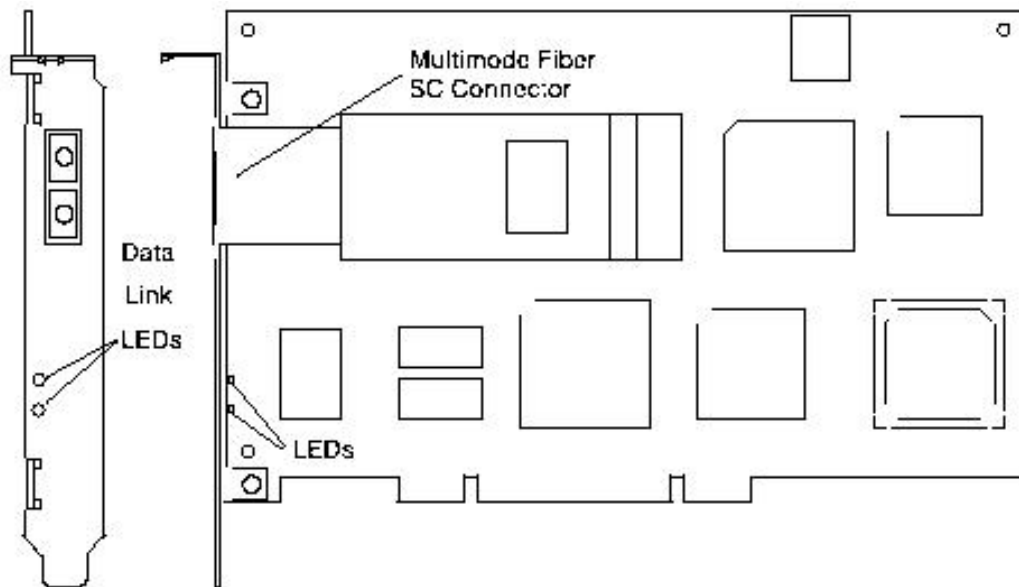


Amber	Green	
Blinkink	Blinkink	The adapter is waiting for initialization
Off	Off	The adapter initialization is in progress or the system unit is powered off.
Off	Blinkink	The adapter did not detect any problems during its self-diagnostic tests and is waiting to open.
Off	On	The adapter is opene and operating correctly
On	Off	The adapter self-diagnostic tests failed
Blinkink	Off	The adapter is closed. One of the following condition exists. <ul style="list-style-type: none"> - The adapter open failed - The adapter detect a wire fault - The adapter failed the auto-removal test.
Blinkink	On	The adapter has detected beaconing or a hard error.
On	On	THE adapter has failed

Created 10/13/99

Last Update: Mar 2004 by BJ Croft

Gigabit Fiber Channel Adapter Type 4-S #6227



Announcement Letter [A98-1426](#)

Needed: AIX4.3 + IX81852 (includes in 4320 ML02)

Adapter FRU..... 09P1173 <- 00P1882 <- 03N4167 <- 24L0023

Bus Archi..... PCI 2.1

Wrap Plug..... 16G5609

Cables..... 50 or 62.5 micron multi-mode fiber-optic, customer provided

Filesets: [devices.pci.df1000f7.*](#)

[devices.fcp.disk.rte.*](#)

[devices.fcp.disk.array.*](#)

[devices.common.IBM.fc.rte.*](#)

Link to [PCI Adapter Placement Reference](#) to determine right slot position for this adapter in various RS/6000 models (requires Acrobat reader)

Needed: AIX 4.3.3

HACMP: 4.3 needs APAR IY05196

Check [here](#) for the current microcode level

[Installation Guide](#)

Resource name: fcs0

Green	Yellow	LED meaning
OFF	OFF	Wakeup failure (adapter is defective)
OFF	ON	POST failure (adapter is defective)
OFF	Slow blink (1HZ)	Wakeup failure
OFF	Fast blink (4HZ)	Failure in POST

OFF	Flashing (irregularly)	POST processing in progress
ON	OFF	Failure while functioning
ON	ON	Failure while functioning
ON	Slow blink (1HZ)	Normal - inactive
ON	Fast blink (4HZ)	Normal - busy
ON	Flashing (irregularly)	Normal - active
slow blink	OFF Normal	Link down or not yet started
slow blink	Slow blink (1HZ)	Off-line for download
slow blink	Fast blink (4HZ)	Restricted off-line mode (waiting for restart)

Note the difference in fileset name
 devices.pci.df1000f7.* --> IBM
 devices.pci.df1001f7.* --> Emulex

Jumpers : JX1 JX2

1 2 3 1 2 3

.=. . . .=. emulation IBM

. .=. .=. . emulation EMC/Emulex

For the emulex version of this adapter:

[Emulex Web Site](#)

Created: March 23 2000

Last Updated: May 2003 Bruno Croft

2 Gigabit Fiber Channel 64-bit Type 4-W #6228

- Software level needed: AIX 4330-08 (IY20367) / AIX5.1 / SP: PSSP3.1.1 or later
- Announcement Letter [A01-0486](#)
- Documentation: PDF Guide [SA23-2550](#)
- Microcode [Check](#)
- Flipper [Web site](#)

DRIVERS: Update can be obtained from: [Fix Central](#)

1) Adapter: `devices.pci.df1000f9.rte`

pre-requisites for the above:

`devices.common.IBM.fc.rte.*`
`devices.pci.df1000f7.com`

2) Adapter Diagnostics `devices.pci.df1000f9.diag`

pre-requisites for the above:

`devices.common.IBM.fc.rte.*`
`devices.pci.df1000f7.com`
`devices.pci.df1000f7.diag`

3) Attached devices: `devices.fcp.disk.rte*`

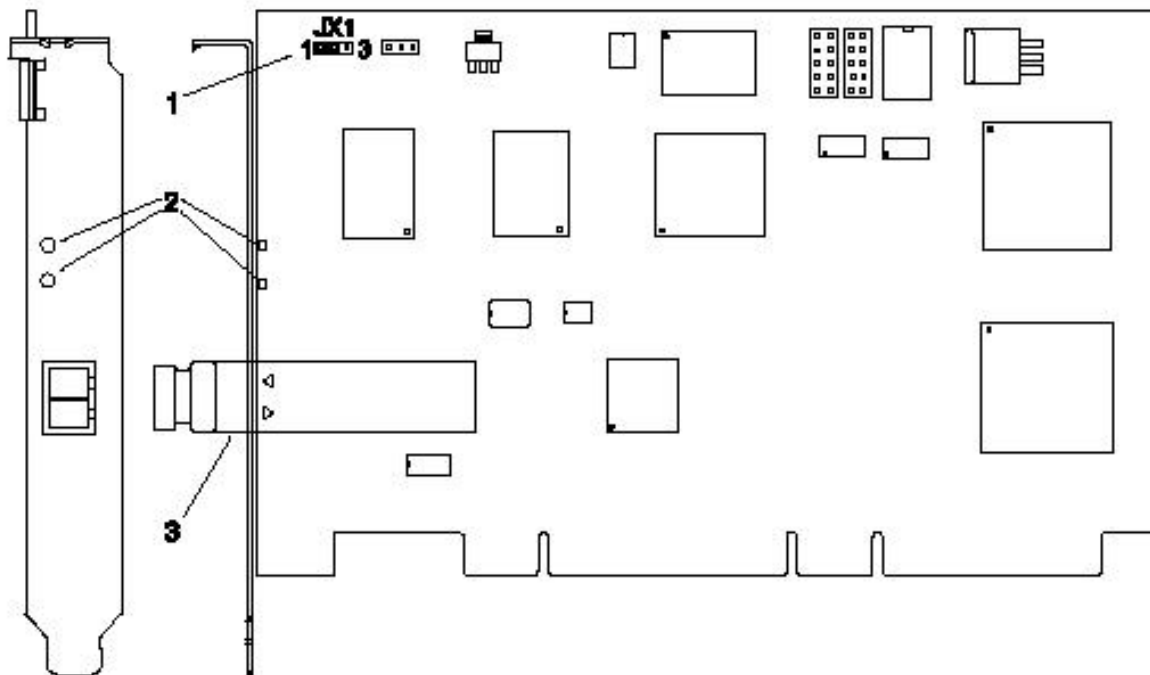
`devices.fcp.disk.array.*`
`devices.fcp.tape.rte`

To get the device driver CD:

1(800) IBM-CALL

Product number: 5765-C34

Form number: LCD4-0995-12



PARTS:

Adapter	80P2676, 00P4495*, 00P2996, 09P5080, 09P0102
LC-SC Fibre Channel Converter Cable	11P1373 #2456
Wrap Plug	11P3847, 05N6768
Cables P/N	See Guide above
Architecture	PCI 2.2
Slot	PCI 2.2 64-bit 66-MHz recommended. PCI 2.1 32-bit 33-MHz

1. Jumper JX1, Pins 1 to2 only
Jumper JX2 (Right to JX1) pin 2 and 3 need to be jumpered.
2. Data Link Status LEDs
3. Multimode Fiber LC Connector

Resource name: fcsX X=number
64-bit 66MHz

2 Gigabit Fibre Channel Adapter for 64-bit PCI Bus (Type 4-W)		
Green LED	Yellow LED	State
Off	Off	Wake up failure (dead board)
Off	On	POST failure (dead board)
Off	Slow blink	Wake up failure monitor
Off	Fast blink	Failure in POST
Off	Flashing	POST processing in progress
On	Off	Failure while functioning
On	On	Failure while functioning
On	Slow blink	1 Gb link rate - normal, link up
On	Fast blink	2 Gb link rate - normal, link up
Slow blink	Off	Normal, link down
Slow blink	On	Not defined

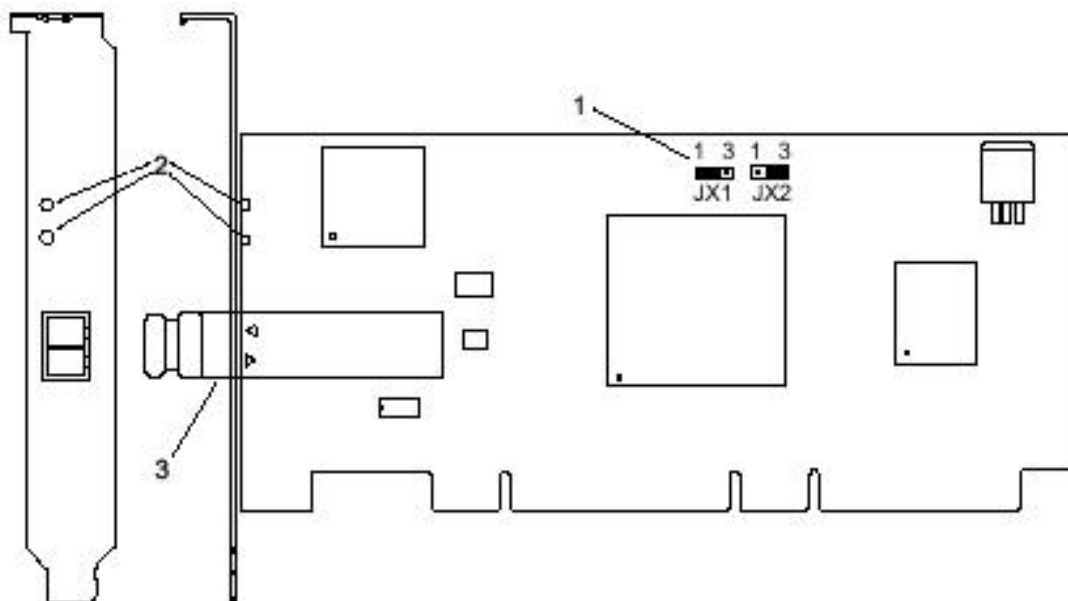
2 Gigabit Fibre Channel Adapter for 64-bit PCI Bus (Type 4-W)		
Green LED	Yellow LED	State
Slow blink	Slow blink	Off line for download
Slow blink	Fast blink	Restricted off-line mode, waiting for restart
Slow blink	Flashing	Restricted off-line mode, test active
Fast blink	Off	Debug monitor in restricted mode
Fast blink	On	Not defined
Fast blink	Slow blink	Debug monitor in text fixture mode
Fast blink	Fast blink	Debug monitor in remote debug mode
Fast blink	Flashing	Debug monitor output active

* Note: Some customer received 4-W labeled FC 2765. This is the AS/400 FC. Product Engineering has confirmed that the FC 2765 used for AS/400 is equivalent to the FC 6228 for the pSeries. The FRU of this version is 00P4495 (Part Number 00P4494). At this moment, The 2 cards doesn't sub each other. More info to come as it will be available.

Created: Apr 27 2001

Last Updated: Oct 2004 by Bruno Croft

2 Gigabit Fiber Channel PCI-X Type 5704 #6239



1. Jumper JX1, Pins 1 to 2 only and Jumper JX2, Pins 2 to 3 only
2. Data Link Status LEDs - See below
3. Multimode Fiber LC Connector

Software requirement: AIX 5.1/5.2

CDN Announcement Letter [A03-0545](#)

Customer Setup ? Yes: 7025, 7026-B80, 7028, 7311, 7044, 9112

No: 7026-6H0/6H1/6M1, 7038, 7039, 7040

- Documentation: PDF Guide [SA23-2550](#)

- Microcode [Check](#)

DRIVERS: Update can be obtained from: [Fix Central](#)

1) Adapter: `devices.pci.df1080f9.rte`

co-requisites for the above:

`devices.common.IBM.fc.rte.*`

`devices.pci.df1000f7.com`

2) Adapter Diagnostics `devices.pci.df1080f9.diag`

pre-requisites for the above:

`devices.common.IBM.fc.rte.*`

3) Attached devices: `devices.fcp.disk.rte*`

`devices.fcp.tape.rte*"`

`devices.fcp.disk.array.*`

PARTS:

Adapter 00P4297
Architecture PCI-X 1.0a, PCI 2.2
Slot PCI 2.2 64-bit 133-MHz recommended.
 PCI 2.1 32-bit 33-MHz

Resource name: fcsX X=number
 64-bit 133MHz

2 Gigabit Fibre Channel Adapter for 64-bit PCI Bus (Type 4-W)		
Green LED	Yellow LED	State
Off	Off	Wake up failure (dead board)
Off	On	POST failure (dead board)
Off	Slow blink	Wake up failure monitor
Off	Fast blink	Failure in POST
Off	Flashing	POST processing in progress
On	Off	Failure while functioning
On	On	Failure while functioning
On	Slow blink	1 Gb link rate - normal, link up
On	Fast blink	2 Gb link rate - normal, link up
Slow blink	Off	Normal, link down
Slow blink	On	Not defined

2 Gigabit Fibre Channel Adapter for 64-bit PCI Bus (Type 4-W)		
Green LED	Yellow LED	State
Slow blink	Slow blink	Off line for download
Slow blink	Fast blink	Restricted off-line mode, waiting for restart
Slow blink	Flashing	Restricted off-line mode, test active
Fast blink	Off	Debug monitor in restricted mode
Fast blink	On	Not defined
Fast blink	Slow blink	Debug monitor in text fixture mode
Fast blink	Fast blink	Debug monitor in remote debug mode
Fast blink	Flashing	Debug monitor output active

Created: July 2003 BJ Croft

Last Updated: July 2003 by BJ Croft

2 Gigabit Fiber Channel PCI-X Type 5716 #5716



Software requirement: AIX 5.2/5.3
CDN Announcement Letter [104-245](#)

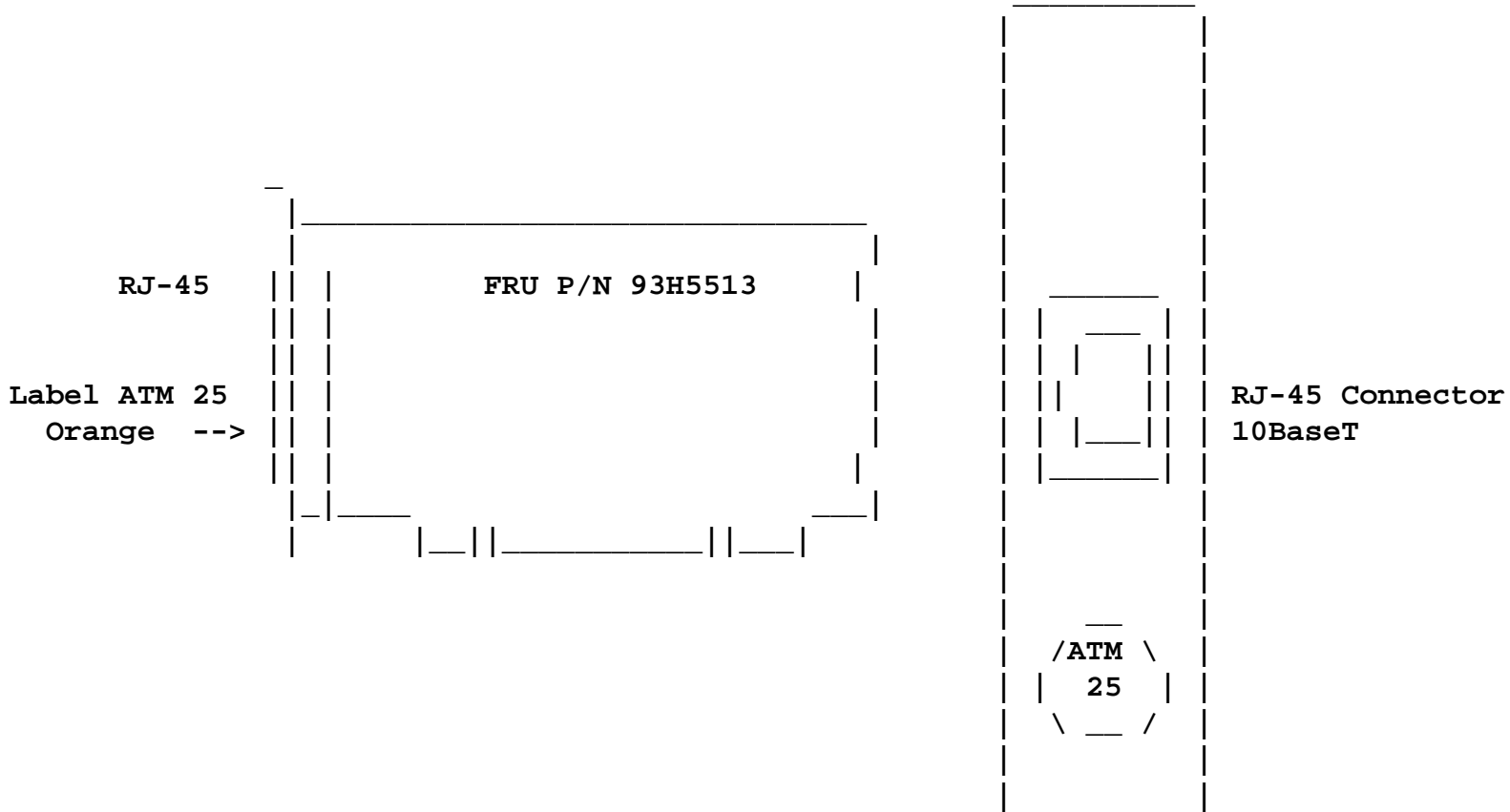
PARTS: Adapter 80P4544
Resource name: fcsX X=number
Fileset: devices.pci.df1000fa.*
More info to come

Created: Nov 2004 BJ Croft

TURBOWAYS 25 ATM PCI Adapter

No Type - #2998 - FFC 691

Fileset: devices.pci.14105300 Connector View



04/02/98

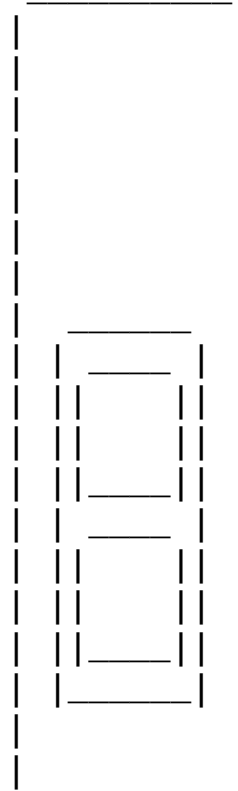
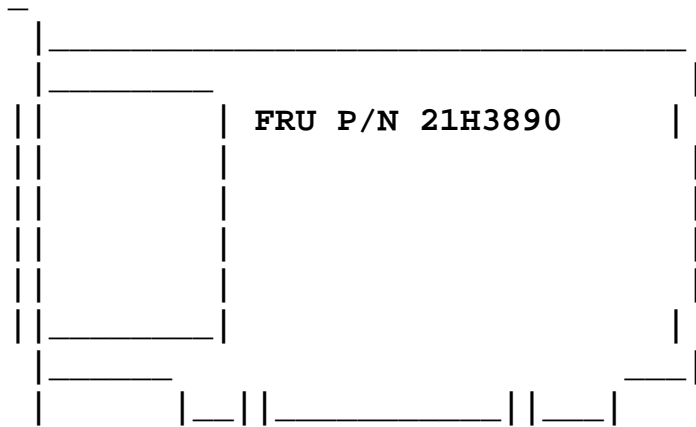
Updated Nov 02 2001 BJ Croft

TURBOWAYS 155 PCI MMF ATM Adapter

9-F - #2988 - FFC 697

Fileset: devices.pci.

Connector View



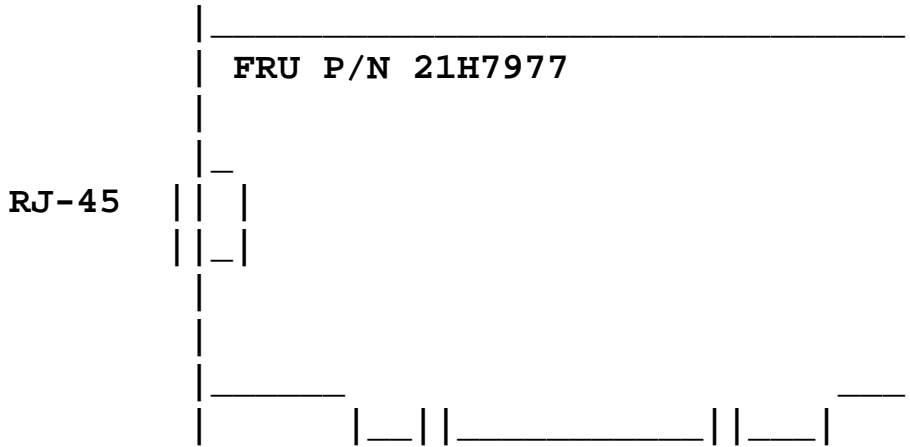
ANSI
Specified
SC
Duplex

06/26/98

TURBOWAYS 155 PCI UTP ATM Adapter

9-J - #2963

Fileset: devices.pci.10104e00

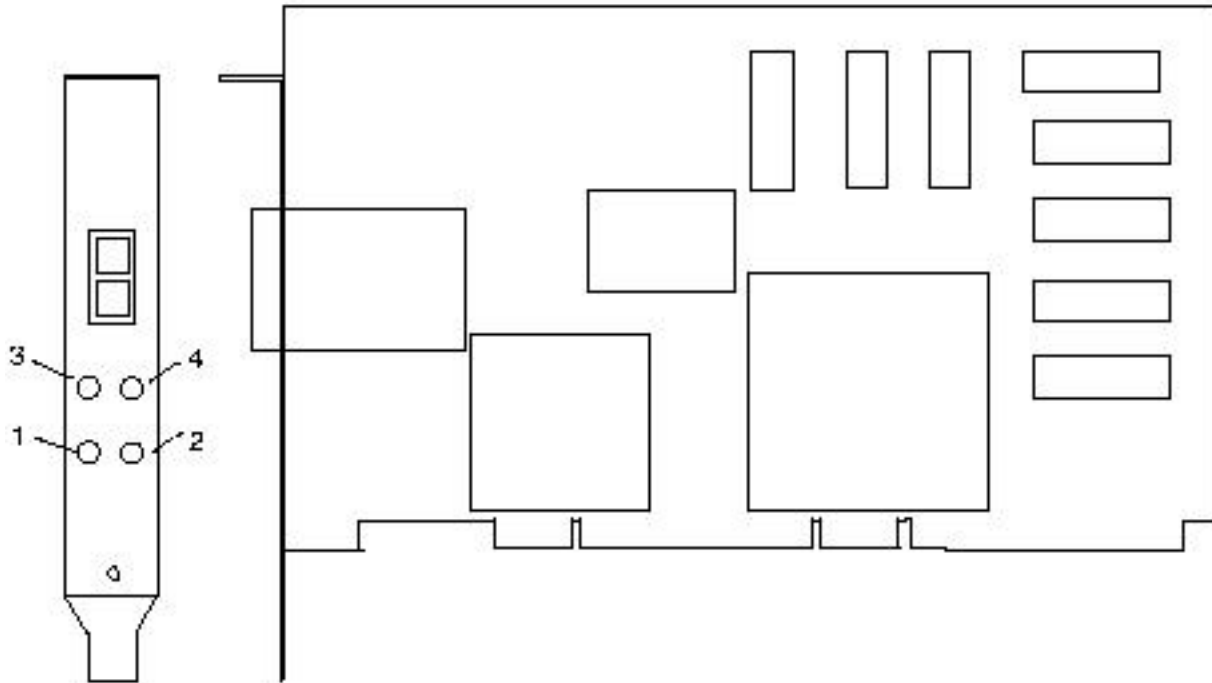


Updated: Feb 28 2001

TURBOWAYS 622 PCI MMF ATM

A-B - #2946

- Software requirement: AIX 4.3.3 or later
- Fileset: [devices.pci.14105e01.*](#)
- Installation and Using Guide [PDF](#)



FRU: 97H7782
Wrap plug:
04P9438

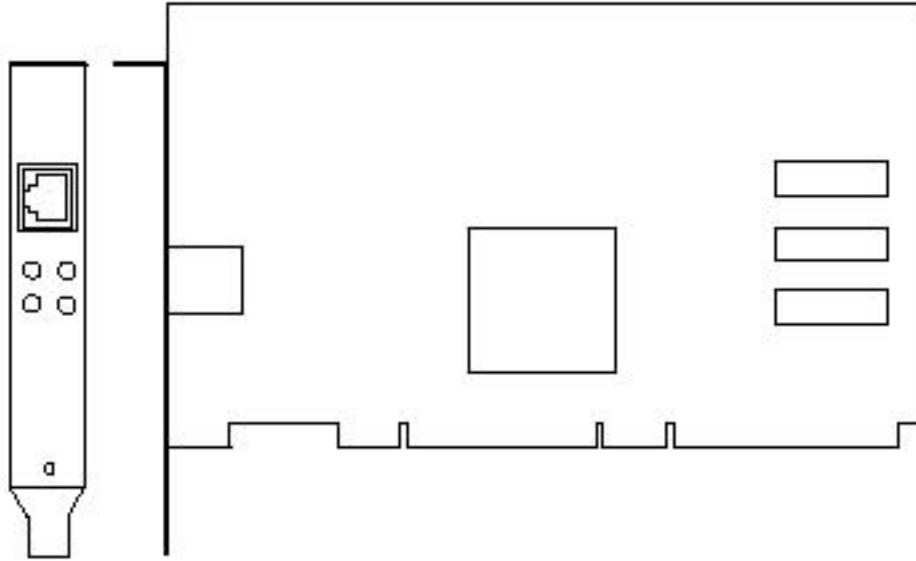
Created: April 24 2001 by Bruno Croft

Last Updated: Feb 2003 by BJ Croft

64-bit/66MHz PCI ATM 155 UTP Adapter A-C - #4953

Fileset: devices.pci.1410c101.*

Current AIX Level: [4.3.3](#) | [5.1](#)



FRU 21P4112

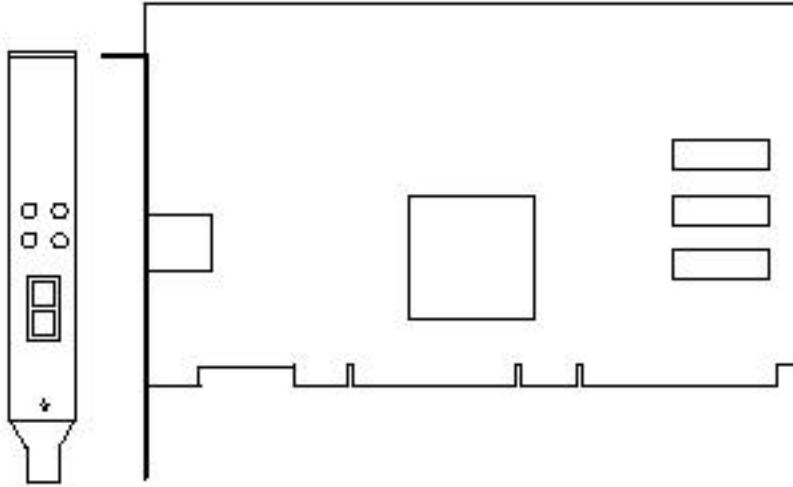
Wrap Plug 21P8009 or 42H0540

Created: Aug 01 2002 by Bruno Croft

64-bit/66MHz PCI ATM MMF Adapter A-D - #4957

Fileset: devices.pci.14106001.*

Current AIX Level: [4.3.3](#) | [5.1](#)



FRU 21P4106 or 53P1154

Wrap Plug 21P33547 or 04P9438

Created: Aug 01 2002 by Bruno Croft

PCI FDDI Adapter

#2741 / #2742 / #2743

Filesets:

[devices.pci.4811040.rte](#) (See README and download skfddi.dd.bin)
devices.pci.48110040.diag

FC	P/N	FFC	
2741	73H3405	795	SK-NET FDDI LP SAS Adapter (single fiber)
2742	73H3401	795	SK-NET FDDI LP SAS Adapter (dual fiber)
2743	73H3413	795	SK-NET FDDI LP SAS Adapter (single copper)

We have very few information about this adapter at this moment. I put the following basic information for the adapter LED from SysKconnect until we have the official documentation.

There is also an internet site you may want to look at:

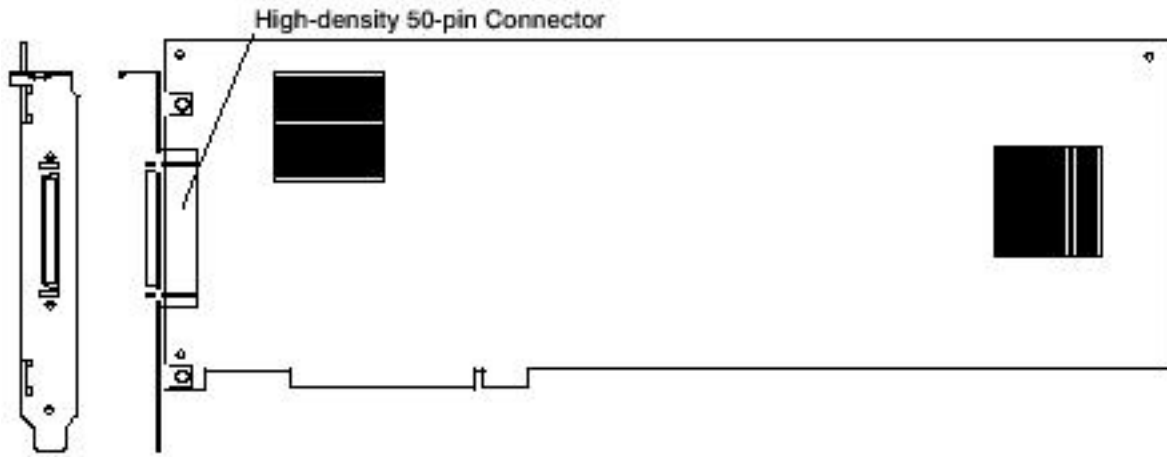
<http://www.syskconnect.com>

Amber Green Meaning

Off Off Device driver not loaded
On Device driver loaded but cannot reach network
On On Device driver loaded and network reached.

Last Updated June 18 2002 by Bruno Croft

SP System Attachment Adapter PCI Type 6-F #8396



Used on: 7017-S7X/S8X, 7026-6Hx/6M1/H80/M80, 7040-670/681

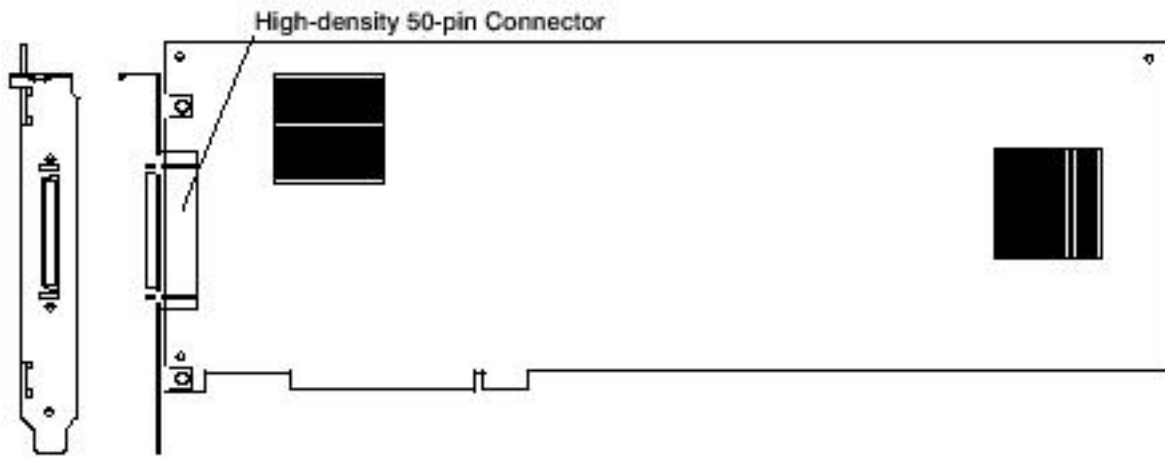
Architecture	PCI 2.1
Busmaster	Yes
Card Type	Full size
Wrap plug	77G0818
Resource name	cssX

PARTS:

Adapter	08L0398	
Cables:	46H9699	10m
	46H9700	15m
	46H9701	20m

Created: July 2003 BJ Croft

SP Switch2 PCI Attachment Adapter Type 6-L #8397



Used on: 7017-S7A/S8X, 7026-6Hx/6M1/H80/M80, 7028-6C4, 7040-61D

PARTS:

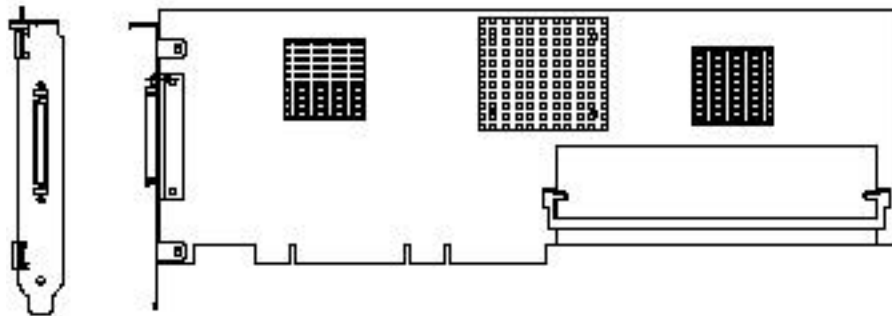
Adapter	00P3127	7017/7026
	11P4087	7040

Cables:	46H9699	10m
	46H9700	15m
	46H9701	20m

Architecture	PCI 2.2
Busmaster	Yes
Card Type	Full size, double wide
Wrap plug	77G0818
Resource name	cssX

Created: July 2003 BJ Croft

SP Switch2 PCI-X Attachment Adapter Type 276A #8398



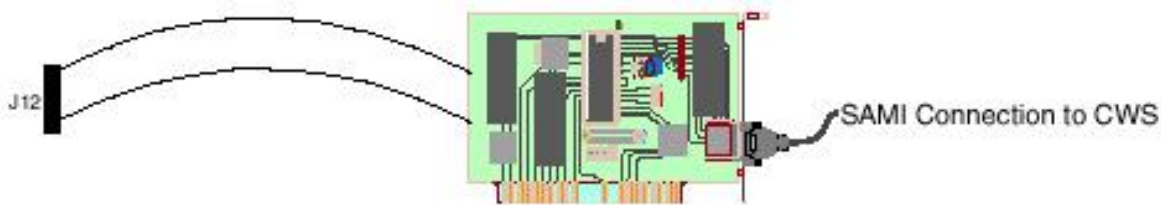
Used on: 7028-6C4, 7038-6M2, 7039-651, 7040-61D, 7311-D20

PARTS:

Adapter	44P4021	
Wrap plug	77G0818	
Cables:	46H9699	10m
	46H9700	15m
	46H9701	20m
Architecture	PCI-X	
Busmaster	Yes	
Card Type	Full size	
Resource name	cssX	

Created: July 2003 BJ Croft

SP SAMI Serial System Attachment 6-K - #3154 Used in 7026 SP-Attached - #3154



FRU: 21P5041 adapter
21P6323 Internal Sami cable to J12
#9125 external cable 31L7196 from 6-K Adapter to CWS

- The 3154 SAMI adapter must be placed in slot 7
- Fileset: `ssp.css` - (see note below)
NOTE: This card uses no signal or power from the PCI slot. All its power and signals come from the ribbon cable connected internally to the J12 port. Therefore, it does not appear in the output of the `lsdev` or `lscfg` commands.
- The device driver to support this adapter is part of PSSP fileset (`ssp.*`). More precisely `ssp.css`.

Only one SAMI adapter per server is allowed.

This adapter will provide all functions from `hardmon`, `sysmon`, `Perspectives` and `slterm`.

The other end of the serial cable is attached to a serial port on the CWS (could be a RAN)

Created: October 1 2001 by Bruno Croft

Update: Oct 2002

ESCON Channel PCI Adapter

Type 5-5 - #2751

Prereq:

AIX Version 4.2.1 + APAR IX84351
AIX Version 4.3.0 or later

Microcode filenames:

esconCU.00.00
esconCU.3088.n.00
esconCU.3088.r.00
esconCU.3088.s.00
esconCU.CLAW.n.00
esconCU.mcm.con
esconCU.mcm.dmp
esconCU.mcm.exe
esconCU.mcm.por

Diags:

ec8fd.00.03
00d00000d.00.01

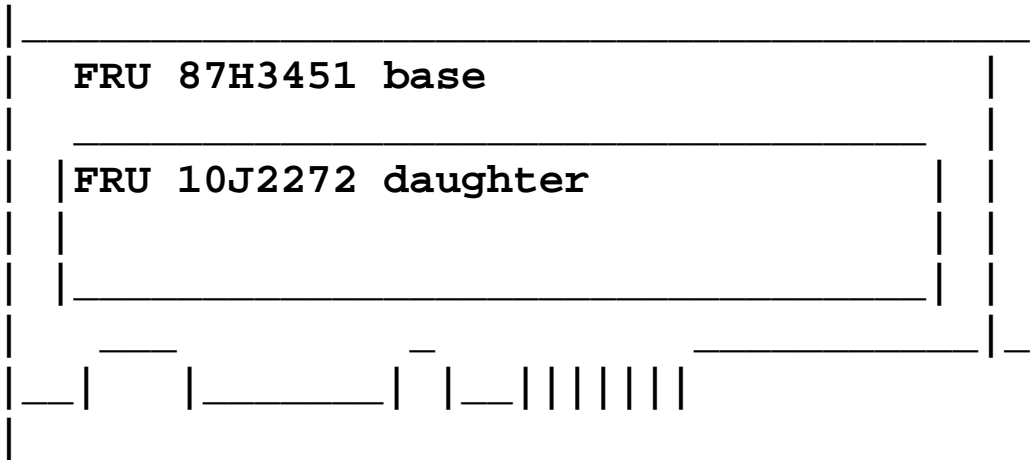
FRU: 31L7567 for 7017-S70/S7A/S80, 7205-F50, 7026-H50,H70

Updated: Fev 2003

PCI Digital Trunk Quad Adapter

Type 6-B - #6309

Provides attachment of the 9295 or 9291 to T1 or E1.

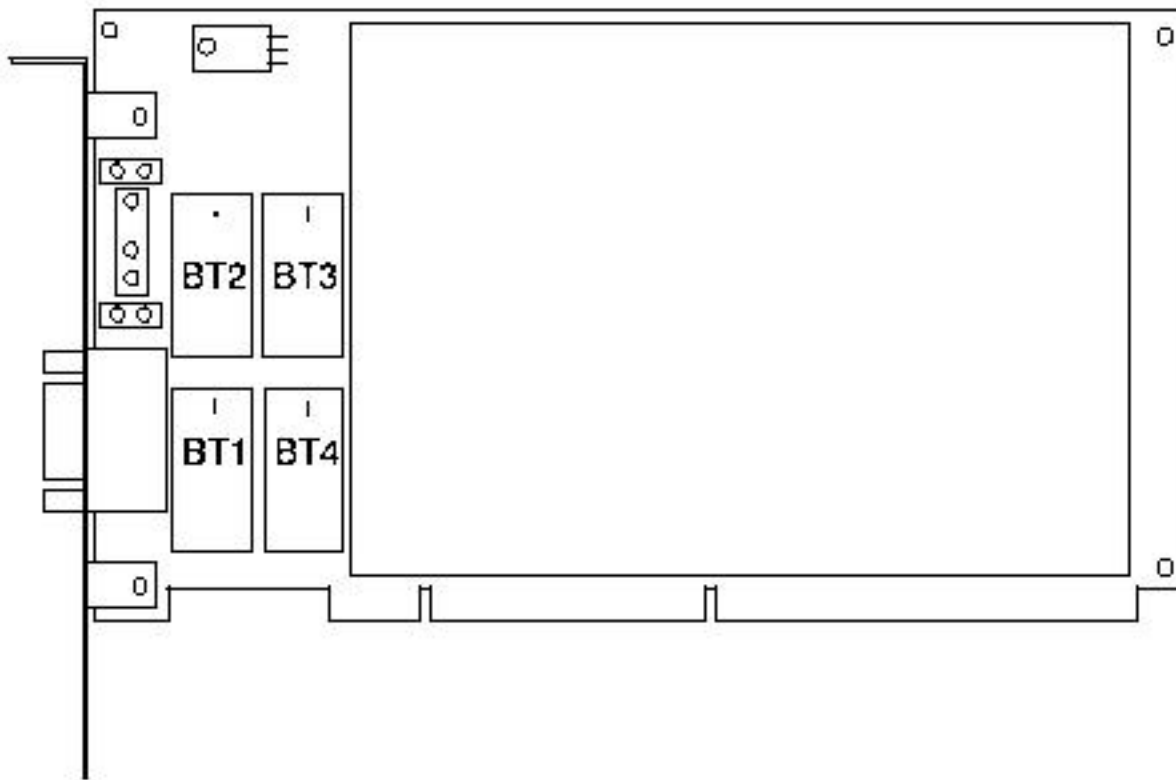


Memory SIMM 70F9973

Quad Cable Kit. 51H4325 included wrap plug

SCBUS..... 10J2252

Cryptographic Processor Type 6-H - #4958 - FFC 67B



FRU 10J0593
Battery Kit 09J8199

- Announcement Letter [Announcement letter A01-0469](#)

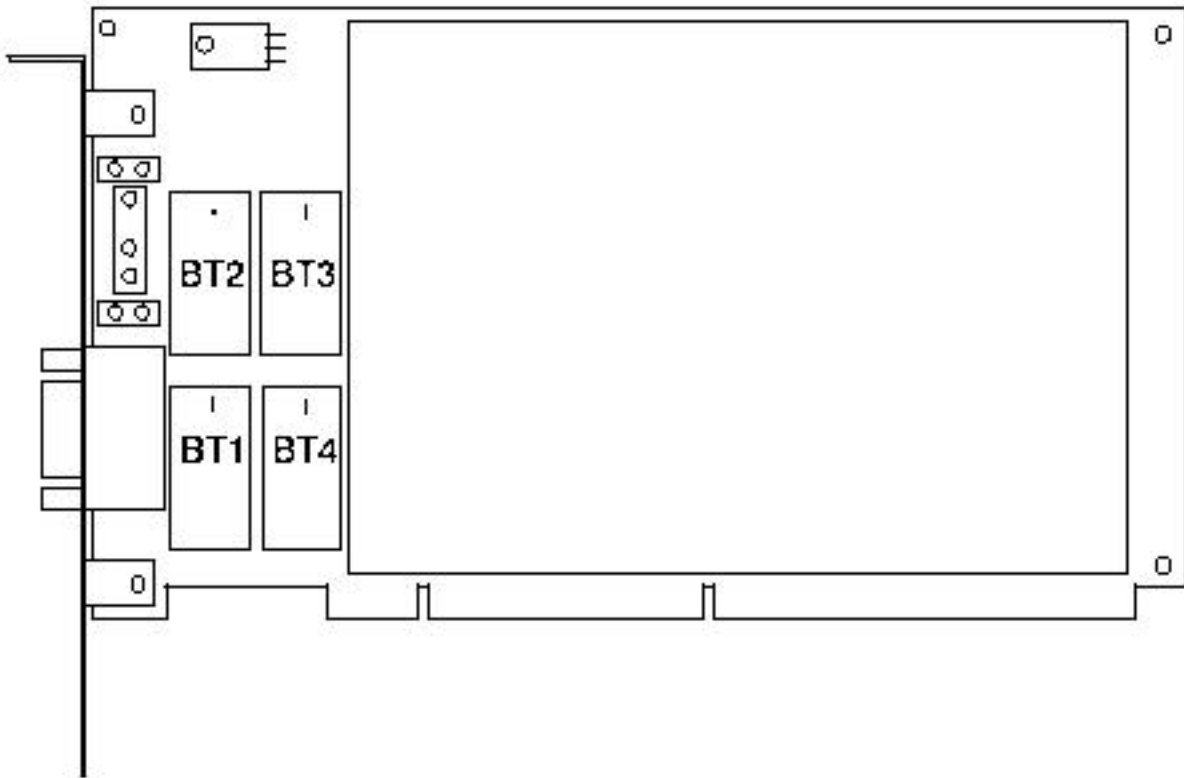
- [More info from the Supplemental Manual](#)

IBM Internet site on [cryptography for this adapter](#) <-----

- AIX 64-bit kernel does not support this adapter

Created May 11 2001 BJ Croft Updated Nov 02 2001 BJ Croft

Cryptographic Processor Type 6-I - #4963 - FFC XXX



FRU 10J0357
Battery Kit 09J8199

- Announcement Letter [Announcement letter A01-0469](#)

- [More info from the Supplemental Manual](#)

IBM Internet site on [cryptography for this adapter](#) <-----

- AIX 64-bit kernel does not support this adapter

Created May 11 2001 BJ Croft Updated April 2003 BJ Croft

Cryptographic Processor Type 6-J - #4960 - FFC 2570

Fileset: devices.pci.



FRU 11P1856

Links:

- [cryptography for this adapter](#)

- [SSL Web Site Info](#) <-----

Created April 2003 BJ Croft

Eicon ISDN DIVA Pro 2.0 S/T Type 9-N - #2708

FRU 93H5839

- **Announcement Letter** [Announcement letter A01-0469](#)

Created June 14 2001 by BJ Croft

I/O Filler for PCI slot (cover)..... 03K8992



The Ethernet Corner

- [2-1 ETHERNET AUI and 10Base2 #2980](#)
- [8-U ETHERNET AUI and 10BaseT #2992](#)
- [8-V ETHERNET 10Base2 #2993](#)
- [9-Q ETHERNET 10/100 Mbps #2964](#)
- [9-K ETHERNET 10/100 Mbps #2994](#)

NETWORK TERMINAL ACCELERATOR:

- [8-5 NETWORK TERMINAL ACCELERATOR 256](#)
- [8-6 NETWORK TERMINAL ACCELERATOR 2048](#)

INTEGRATED INTERNET:

- [7011 / 7006 / 7008](#)
- [Some 7012 and 7030](#)

RISER CARDS with JUMPERS:

- [2-8 THICK/THIN - 10Base5 10Base2 - #9000 #4221](#)
- [2-9 TWISTED-PAIR -10BaseT - #9001 4222](#)

Updated Feb 26 2000 by Bruno Croft



The SCSI Jungle

MISC

- [SCSI Info](#)
- [1-Connector or 2-Connector ?](#)

SINGLE-ENDED

- [4-1 #2835 SCSI-1 8-bit Bluebonnet](#)
- [4-4 #2410 SCSI-2 8-bit Lace](#)
- [4-7 #2415 SCSI-2 FW Corvette](#)

DIFFERENTIAL

- [4-2 #2420 SCSI-2 8-bit - Lace](#)
- [4-6 #2416 SCSI-2 FW - Corvette](#)
- [4-C #2412 SCSI-2 FW Enhanced - Corvette](#)

INTEGRATED SCSI

- [SCSI-1 7012/7013/7015](#)
- [SCSI-2 7006/7008/7009/7011](#)
- [SCSI-2 7012/7030](#)

Updated March 16 2001 BJ Croft

Token-Ring High-Performance Network Adapter (Type 2-2)

Token-Ring High-Performance Network Adapter (Type 2-2)

AIX 4.1 devices.mca.8fc8

02G7165/00G2652 #2970	Cable Y PN6339098 10FT
FFC 850	PN53F3930 20FT
	_____Y_____
	<-----+FCC Class A 16/4
	| See manual

Interrupt level 2,3,4,5,7,10,11,12

Bit rate 4M or 16Mbits per second (set by program)

Maximum number 4

X.25 Interface CO-Processor/2 (Type 2-4)

X.25 Interface CO-Processor/2 (Type 2-4)

```

+---+-----+-----+-----+-----+-----+-----+-----+-----+
| | 51G9060 #2960 | # | | |
| | FFC 849 | # | 37-pos D-shell |
| | | | # | #----Q,R or S----# |
| | | | # |
+---+-----+-----+-----+-----+-----+-----+-----+-----+
##### ##### ##### #---|

```

Filesets AIX 4.1:

devices.mca.eff0.rte and devices.mca.eff0.diag

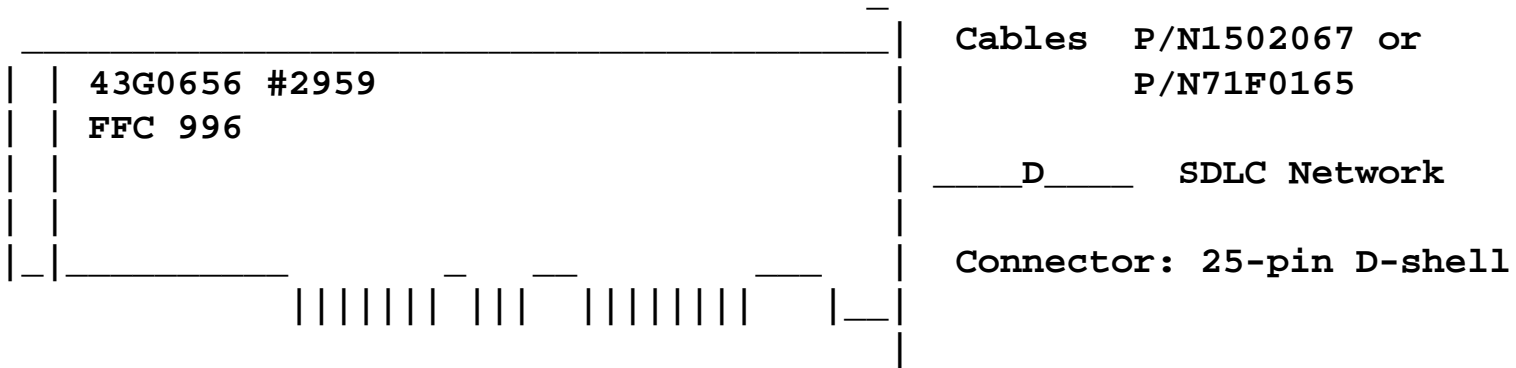
										Wrap
Plug |										
Cable	FFC	Leng	P/N	FC	Leng	P/N	FC			P/N
Q- X.21	271	10ft	07F3151	2965	20ft	53F3926	2976			07F3153
R- V.24	272	10ft	07F3161	2966	20ft	53F3927	2977			07F3163
S- V.35	273	10ft	07F3171	2967	20ft	53F3928	2978			07F3173

Wrap plug: Adapter 37-pos... 07F3132

Memory DRAM SIP.... 68X5706

Multiprotocol Adapter/A (MP/A) (Type 2-P) # 2959

Multiprotocol Adapter/A (MP/A) (Type 2-2) # 2959



Interrupt level 3 or 4
Maximum number 1

What product to install ?

AIX 3.2.4 order #5058 Multiprotocol Adapter Connectivity

AIX 4.1 devices.mca.deff
bos.dlc.sdsc must also be installed

SSA 4-Port MCA Adapter Type 4-D #6214 - Mayflower

FRU 11H3614 #6214	-loop B port 2	9-position
VPD p/n 32H3974	-loop B port 1	female
FFC E07	-loop A port 2	connector
	-loop a port 1	

Specs:

- Data transfer rate: **20MB/s per loop**
- Loops: **2**
- Max disks/loop: **48**
- Max Adapters/Loop: **2**
- Adapter Compatibility: **4D and 4G**
- RAID support: **NO**
- Boot Support: **YES**
- Dump tool: **NO**

Links to see/download current level of fileset:

- Adapters:
 - AIX V4.X: [devices.mca.8f97.*](#)
 - AIX V3.2: [ssa.rte.obj](#)
- Disks:
 - AIX V4.X: [devices.ssa.disk.rte.*](#)
 - AIX V3.2: [ssadisk.obj](#)
- Microcode:
 - [Adapter, disks, spare tool and AIX](#)
- Other Search:
 - [4-D On Dave Adams Site](#)
 - [Boulder PTFs WWW Site](#)

Other information:

To determine the level of adapter microcode, use the command
`lscfg -vl ssa0` for `ssa0`.

The field ROS level and ID ... is the microcode level.

To determine the level of disk drive microcode, use the command
`lscfg -vl pdisk*`

The field ROS level and ID ... is the microcode level.

Updated: Nov 30 2000 by Bruno Croft

SSA Enhanced Adapter MCA Type 4-G #6216 - Mayflower 2

FRU 40H5707 #6216 FFC E07	-loop B port 2	9-position
(96H9882 F08348 VPD)	-loop B port 1	female
(89H5667 E48513 VPD)	-loop A port 2	connector
(32H3975 E48439 VPD)	-loop a port 1	

Specs:

- Data transfer rate: **20MB/s per loop**
- Loops: **2**
- Disks per loop: **48**
- Max Adapters/Loop: **8**
- Adapter Compatibility: **4D and 4G**
- RAID support: **No**
- Boot Support: **Yes**
- Dump tool: **No**

Links to see/download current level of fileset:

- Adapters:
 - AIX V4.X: [devices.mca.8f97.*](#)
 - AIX V3.2: [ssa.rte.obj](#)
- Disks:
 - AIX V4.X: [devices.ssa.disk.rte.*](#)
 - AIX V3.2: [ssadisk.obj](#)
- Microcode:
 - [Adapter](#)
 - [Disks, spare tool and AIX](#)
- Doc **Other searches:**
 - [Dave Adams Web Site](#)
 - [Boulder PTFs WWW Site](#)

Other information:

To determine the level of adapter microcode, use the command
lscfg -vl ssa0 for ssa0.

The field ROS level and ID ... is the microcode level.

To determine the level of disk drive microcode, use the command
lscfg -vl pdisk*

The field ROS level and ID ... is the microcode level.

AIXTOOLS PACKAGE: SSAFLASH
ECA212 (not updated for a while)

Updated: 4 Jan 2000

SSA 4-Port RAID MCA Adapter Type 4-I #6217 - Sarratoga

FRU 89H5617 #6217	-loop B port 2 9-position ----- Green light
DRAM 73G3233	-loop B port 1 female|
	-loop A port 2 connector ----- Green light
	-loop a port 1

Specs:

- Supported only at AIX V4.X - Not AIX 3.2
- Single adapter in a loop.
- Array member drives can be in either loop on the adapter.
- From 3 to 16 drives per RAID Array.
- Busmaster: **Yes**
- Data transfer rate: **20MB/s per loop**
- Loops: **2**
- Disks per loop: **48**
- Max Adapters/Loop: **1**
- Adapter Compatibility: **None**
- RAID support: RAID 5
- Hot Spare: **Yes**
- Fast Write Cache Option: **No**
- RAID/Spares Span Loops: **Yes**
- Boot Support: **Only in Non-RAID mode**
- Dump Tool: **No**

Links to see/download current level of fileset:

- Adapters: [devices.mca.8f97.*](#)
- Disks: [devices.ssa.disk.rte.*](#)
[devices.ssa.IBM_raid.rte.*](#)
- Microcode: [Adapter, disks, spare tool and AIX](#)
- Doc: [Install, technical & MIM](#)
- Search: [Other](#)
[Dave Adams Web Site](#)

GREEN LIGHT

OFF Both SSA connectors are inactive. If disk drive modules or other SSA adapters are connected to these connectors, either those modules or adapters are failing, or their SSA links are not active.

ON Both SSA link are active (normal operating condition).

SLOW FLASH Only one SSA link is active.

AIXTOOLS: SSAFLASH

Updated: Oct 29 2001

SSA Multi-Initiator/RAID EL MCA Adapter Type 4-M #6219 - Fremont

FRU NOT FRU
84H9706 <----- 25L5817

<pre>FRU Base 84H9706 #6219 Cache Option Card 74G7719 #6222 FFC E07 DRAM 16MB 89H5651 Qt:2</pre>	<pre>-loop B port 2 9-position ----- Green light -loop B port 1 female -loop A port 2 connector ----- Green light -loop a port 1</pre>
---	--

Specs:

- Not mandatory to configured drives as RAID array.
- From 3 to 16 drives per RAID Array.
- Busmaster: **Yes**
- Data transfer rate: **20MB/s per loop**
- Loops: **2**
- Disks per loop: **48**
- Max Adapters/Loop: **8 (Note 1)**
- Adapter Compatibility: **4M, 4N and 4P (Note 2)**
- RAID support: **RAID 5**

Links to see/download current level of fileset:

- Adapters:
 - [devices.mca.8f97.*](#)
- Disks:
 - [devices.ssa.disk.rte.*](#)
 - [devices.ssa.IBM_raid.rte.*](#)
- Microcode:
 - [Adapter, disks, spare tool and AIX](#)
- Doc:
 - [Install, technical & MIM](#)
- Search:
 - [Any other search on Boulder](#)
 - [Dave Adams Web Site](#)

- **Hot Spare: Yes**
- **Fast Write Cache: 4MB (Note 3)**
- **RAID/Spares Span Loops: Yes.**
- **Boot Support: Non-RAID only.**
- **Dump tool: Required Hot Spare**

Note 1: If more than 2 adapters are connected, RAID and Fast-Write Cache cannot be used.

- 2) Two adapters per loop with RAID and non Fast Write Cache, Eight adapters per loop non-RAID and non Fast Write Cache.
- 3) Members of a RAID array must be on the same loop.
If Hot Spare is enabled for the array, the spare disk must be on the same loop as the array.

GREEN LIGHT

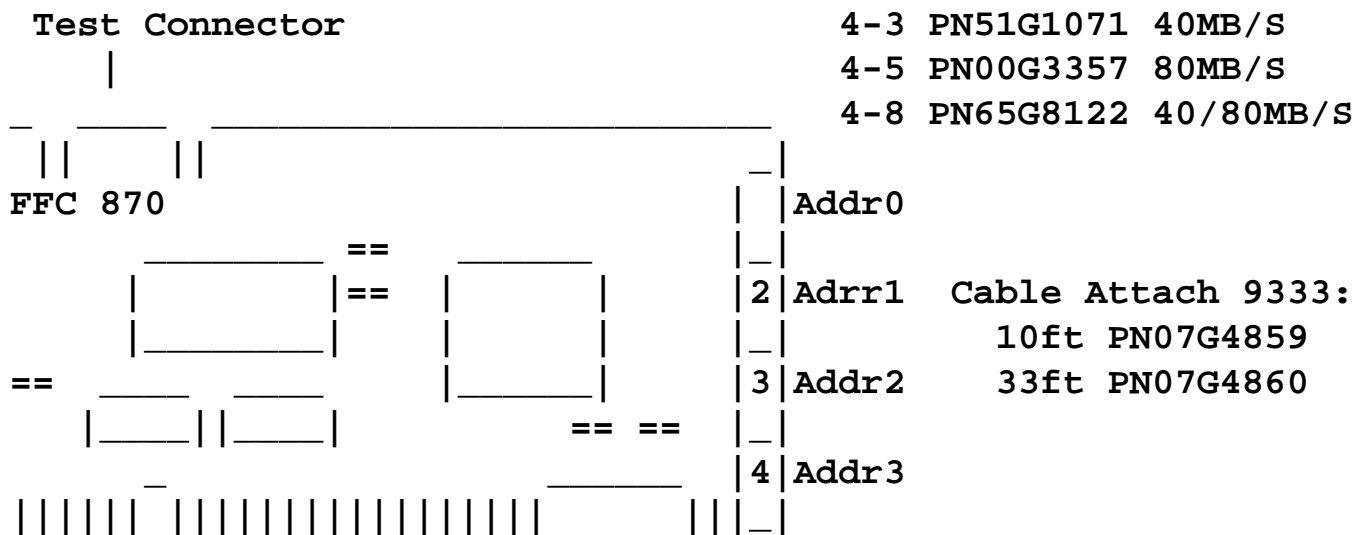
OFF Both SSA connectors are inactive. If disk drive modules or other SSA adapters are connected to these connectors, either those modules or adapters are failing, or their SSA links are not active.

ON Both SSA link are active (normal operating condition).

SLOW FLASH Only one SSA link is active.

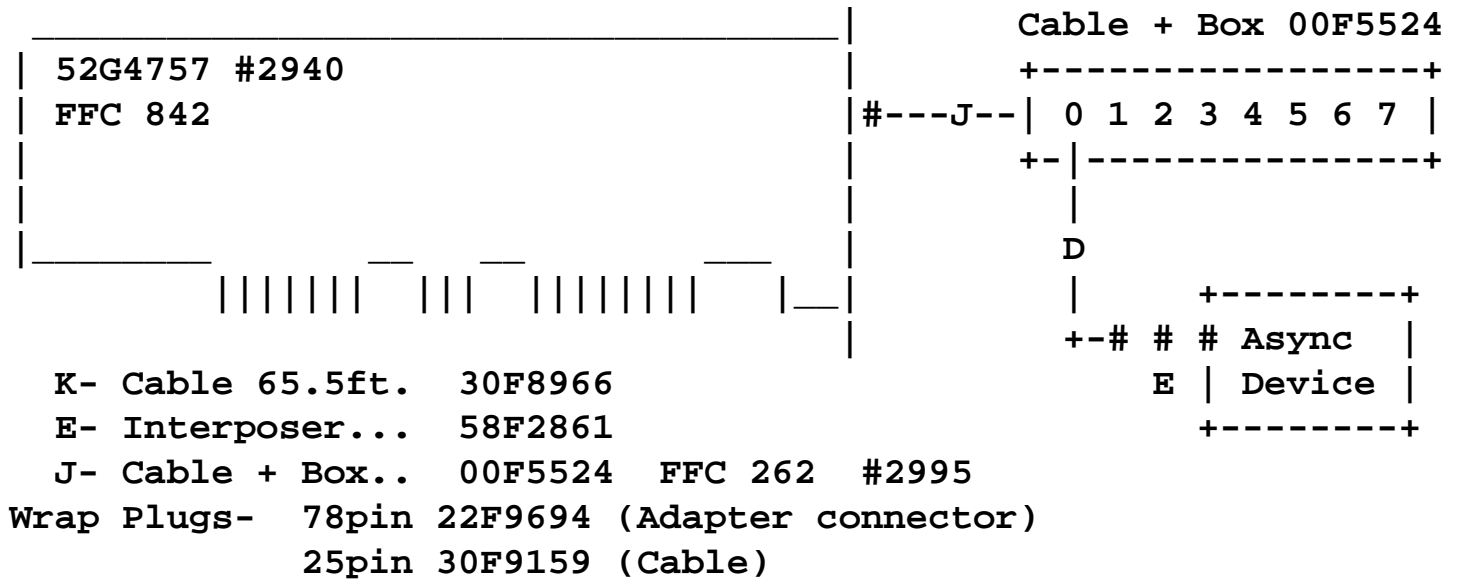
Updated Oct 29 2001 by Bruno Croft

High Performance Disk Drive Subsystem (Type 4-3, 4-5 & 4-8)



Microcode filename 8f78.xx.xx

8-Port Async Adapter EIA-422A (Type 3-2) #2940



64-Port Asynchronous Controller Type 3-6 #6400 - FFC 834

AIX fileset: devices.mca.61fd (AIX 4.1 not available until 4.1.4 !)
(Also supported on AIX 4.2 and 4.3)

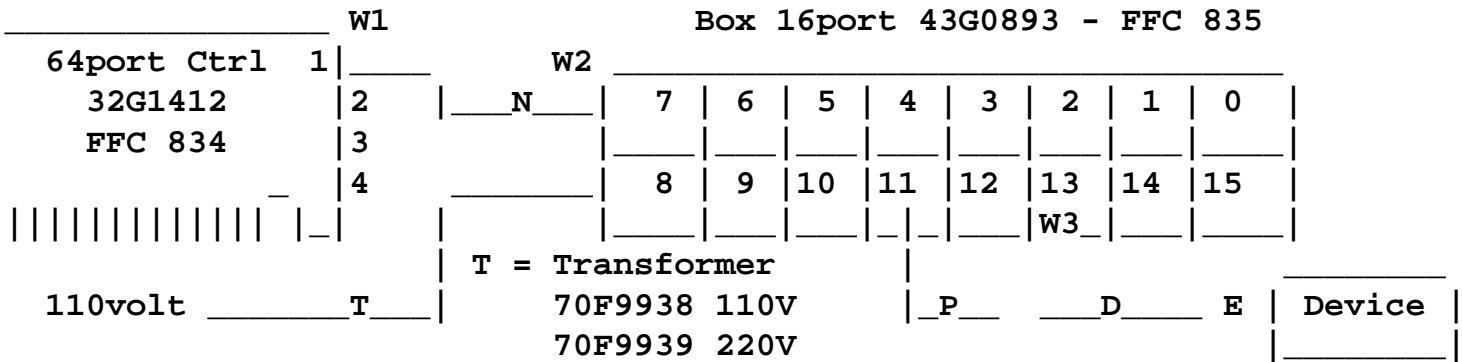
Adapter Resource Name: sa2 for the adapter
(First 64-port when sa0 and sa1 are the first 2 integrated serial ports)

Concentrator Resource Name: None (not like the 128-port adapter)

Example tty location:

_____concentrator or port (1 to 4)

	Relative location	Absolute location
00-01-01-XX	XX always 00 to 15 - In tty config port	00 to 15
00-01-02-XX	XX always 00 to 15 - In tty config port	16 to 31
00-01-03-XX	XX always 00 to 15 - In tty config port	32 to 47
00-01-04-XX	XX always 00 to 15 - In tty config port	48 to 63



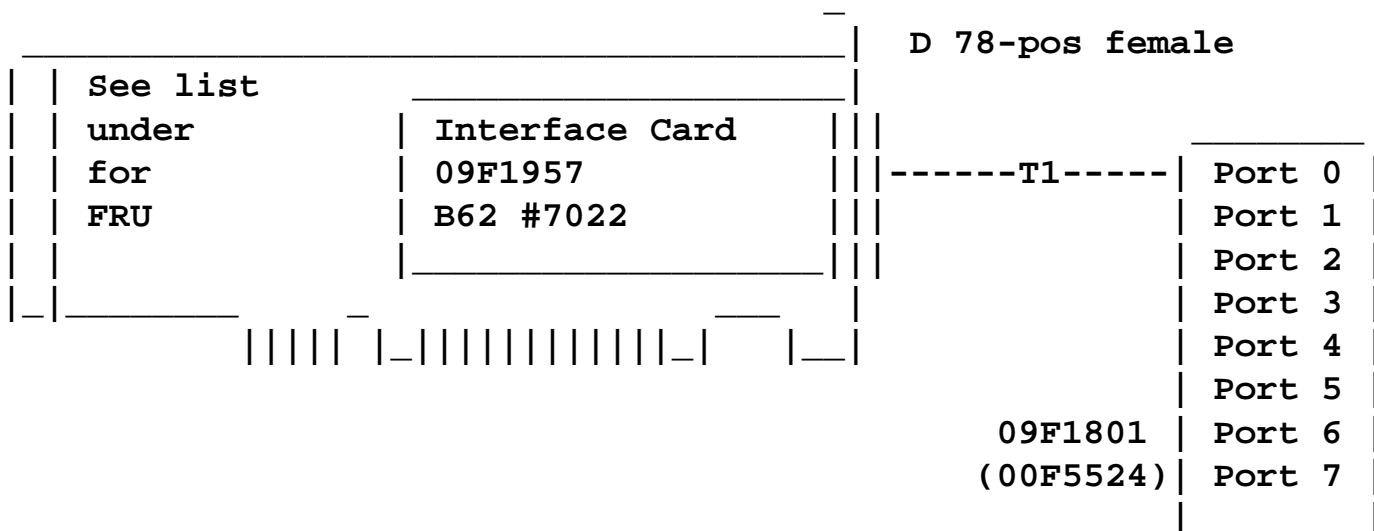
Cables	PN	FFC	FC
D	6323741	259	#2936
E	58F2861	261	#2937
N	00G1109,	265	N/A
	53F3368		
P	53F3432	266	#6402

Wrap Plugs	P/N	Where
------------	-----	-------

W1	53F3623	Controller
W2	53F3205	Cable-N
W3	53F3624	Box Port

Update: Feb 2003

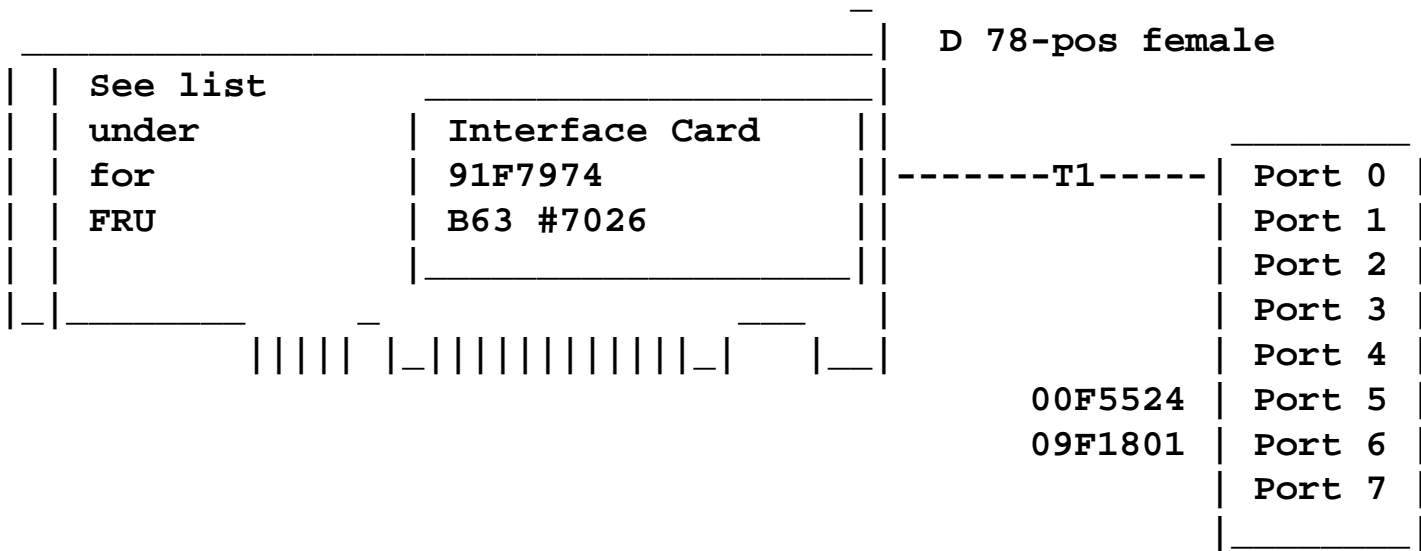
4-Port EIA-232C Multiport/2 Adapter Type 2-C #7002 #7004 #7022



	FRU	FFC	FC
Empty base cards:			
with label for 512KB.,.....	09F1888	B60	
with label for 1MB.....	09F1962	B61	
Filled Base card:			
with 512KB installed.....	85F0255		#7002
With 1MB installed.....	16F1824		#7004
Interface card.....	91F7974, 09F1957.		#7022
Memory modules:			
(2 required per card)			
256KB (for 512KB card 09F1888).....	16F2267		
512KB (for 1MB card) 09F1962).....	04G5834, 16F2265		
T1- Cable-Box 4/8-Port.....	09F1801, B79 - 3.1m 00F5524.		#7102

Update: 25 fev 2000

8-Port EIA-232C Multiport/2 Adapter Type 2-D #7002 #7004 #7026



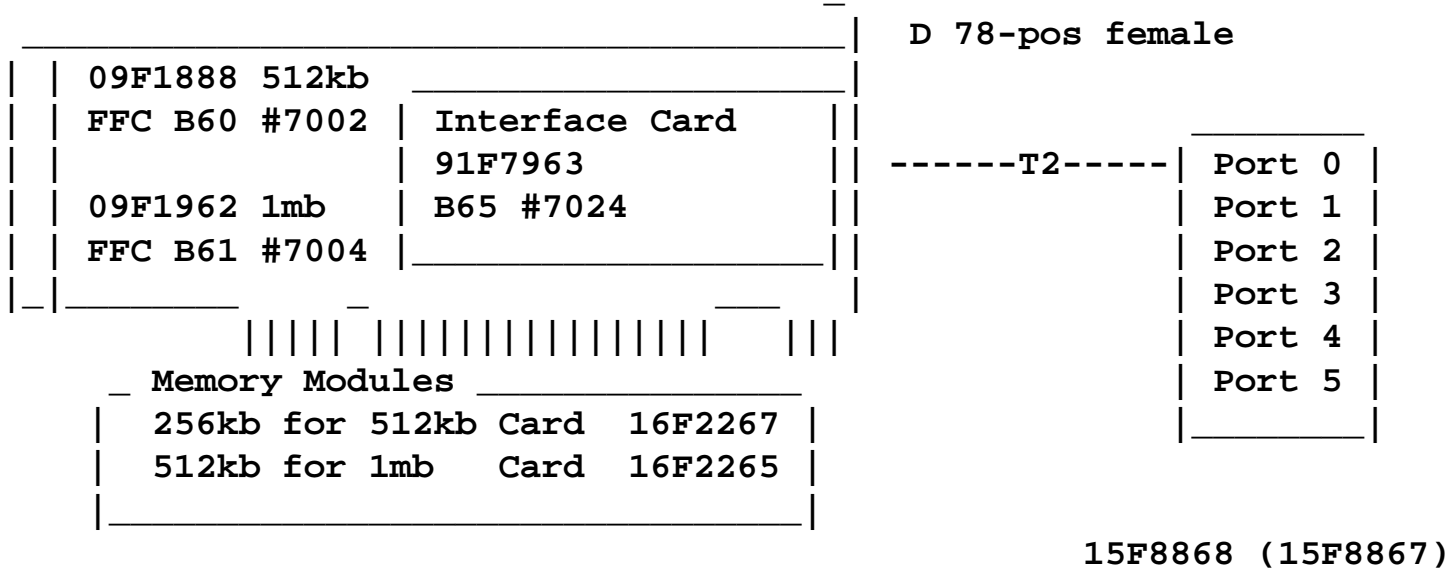
Description	P/N	FFC
Empty base card with 512KB label....	09F1888	B60
Empty base card with 1MB label.....	09F1962	B61
Base card + 512KB installed.....	85F0255	#7002
Base card + 1MB installed.....	16F1824	#7004
Interface card.....	91F7974	#7026
Memory modules:		
(2 per card)		
256KB (for 512KB card 09F1888)..	16F2267	
512KB (for 1MB card) 09F1962)...	04G5834, 16F2265	

T1- Cable and Box 4/8P 232/422 Multiport - B79 - 3.1m #7102

Updated: 9 mars 2000 Bruno Croft

6-Port Synchronous EIA-232C Multiport/2 Adapter Type 2-E #7002 #7004 #7024

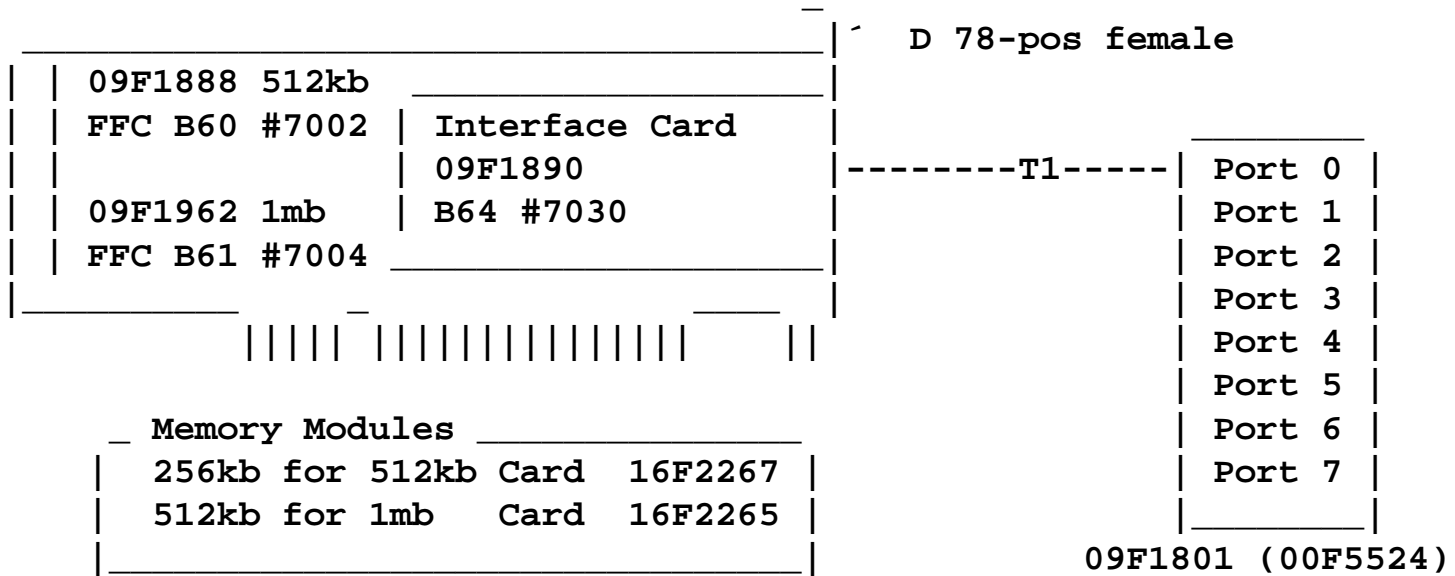
Multiport/2 Adapter (Type 2-E)



T2- Cable and Box 6-Port Sync Multiport/2 - B80 - 3.1m #7104

Updated: 9 mars 2000 Bruno Croft

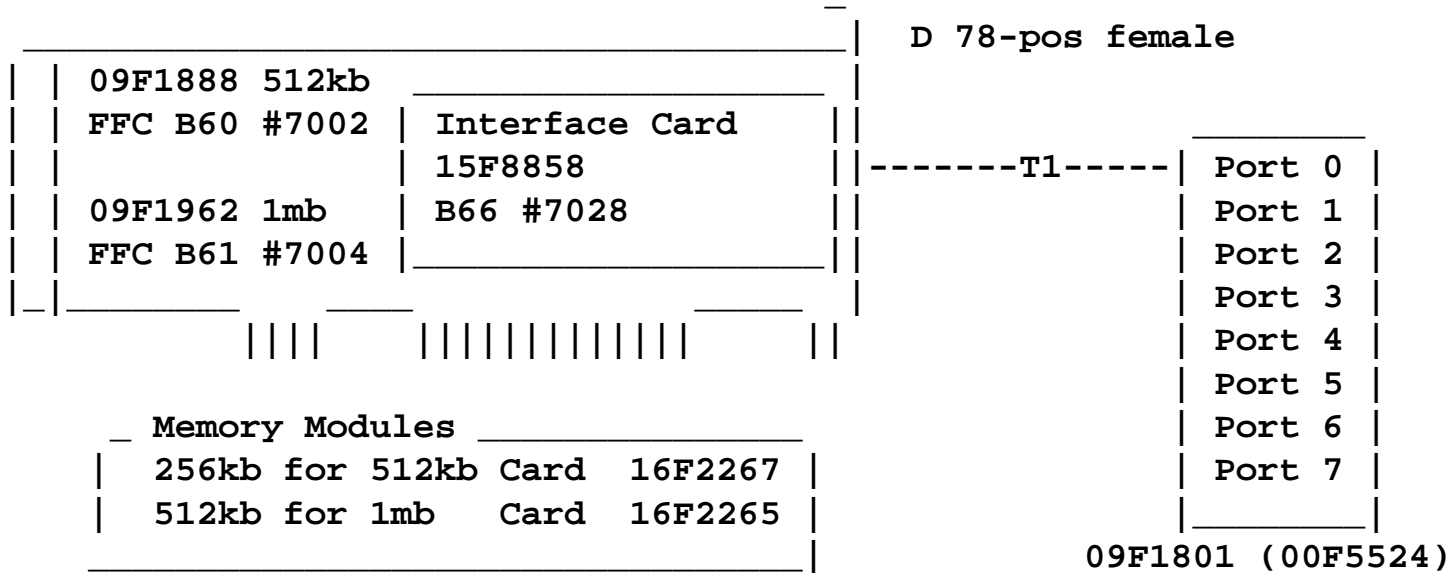
4-Port EIA-232C / 4-Port EIA-422A Multiport/2 Adapter Type 2-F #7002 #7004 #7030



T1- Cable and Box 4/8-Port 232/422 Multiport - B79 - 3.1m

Updated: 9 mars 2000 Bruno Croft

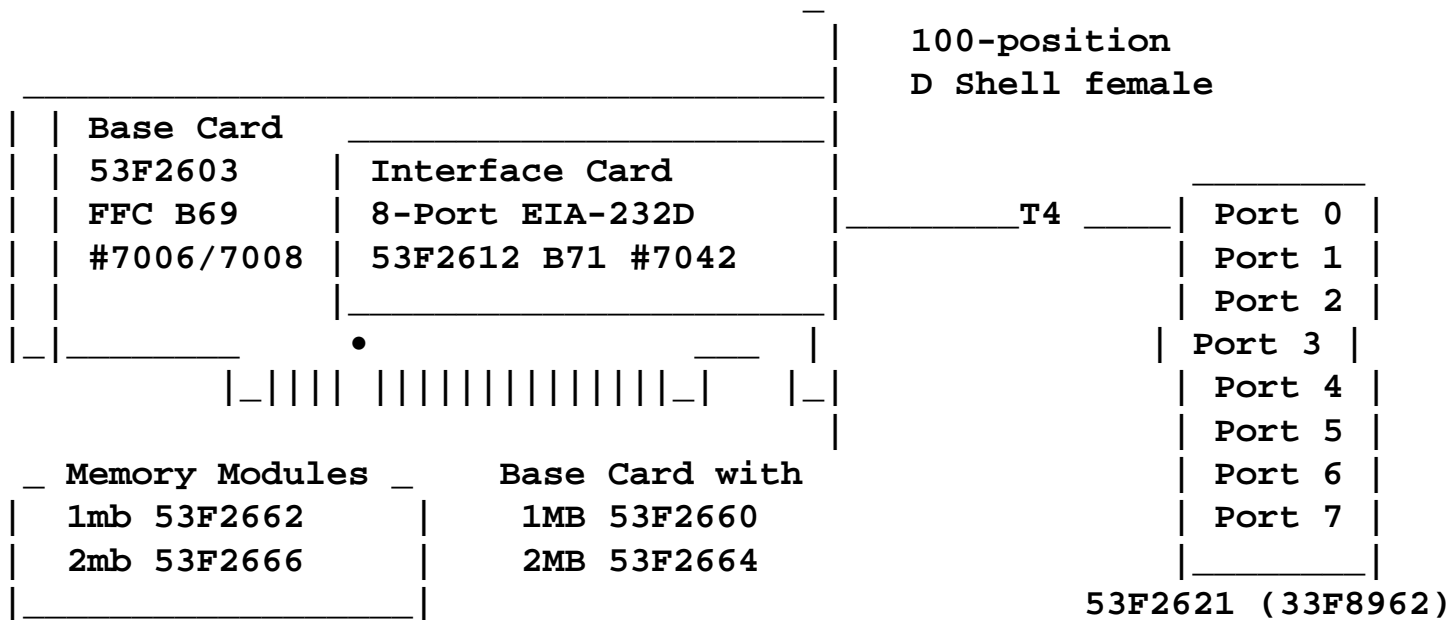
8-Port EIA-422A Multiport/2 Adapter Type 2-G #7002 #7004 #7028



T1- Cable and Box 4/8-Port 232/422 Multiport - B79 - 3.1m #7102

Updated: 9 Mars 2000

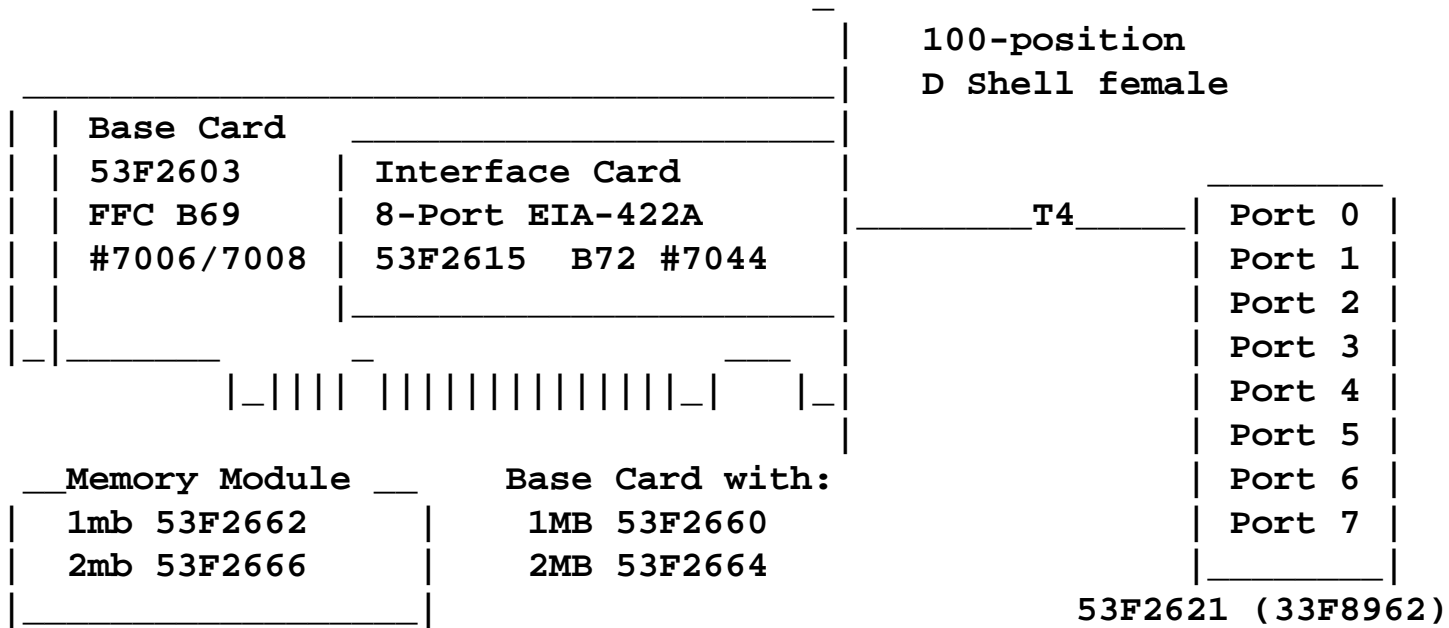
8-Port EIA-232D Portmaster Adapter/A Type 2-H #7006 #7008 #7042



T4- Interface Cable & Box 8-Port 232/422 B81 - 1.2m #7108

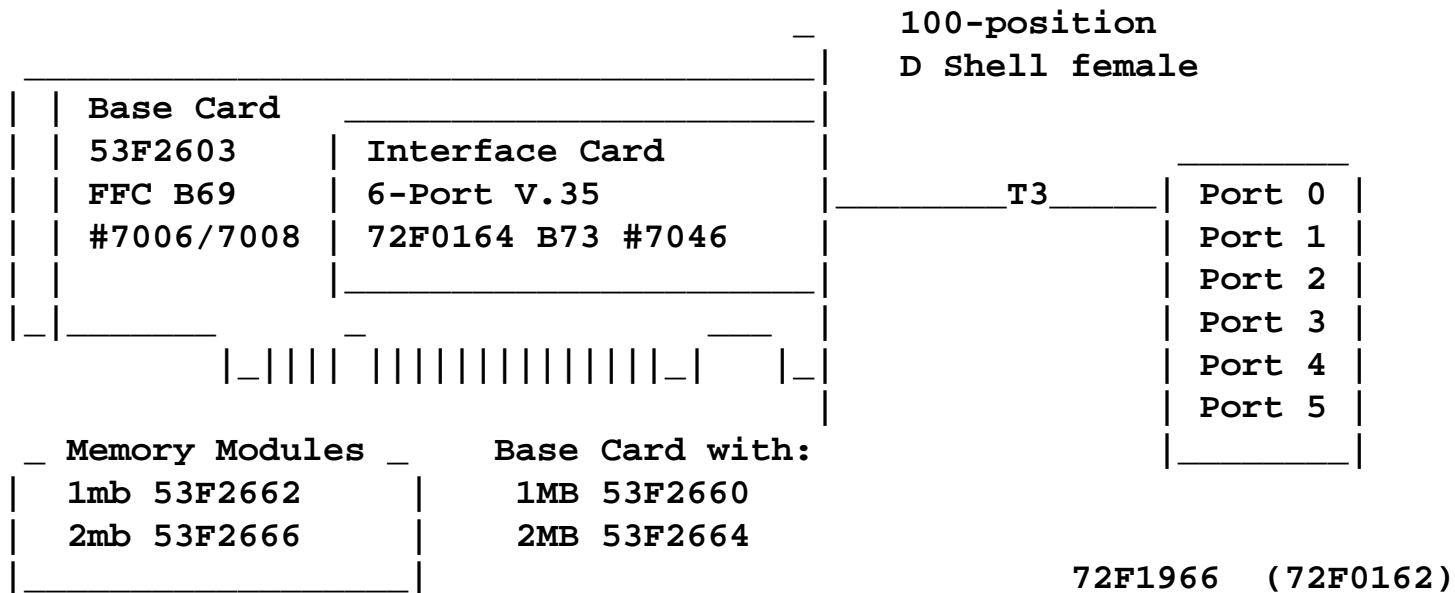
Updated: 9 mars 2000 Bruno Croft

8-Port EIA-422A Portmaster Adapter/A Type 2-I - #7006 7008 7044



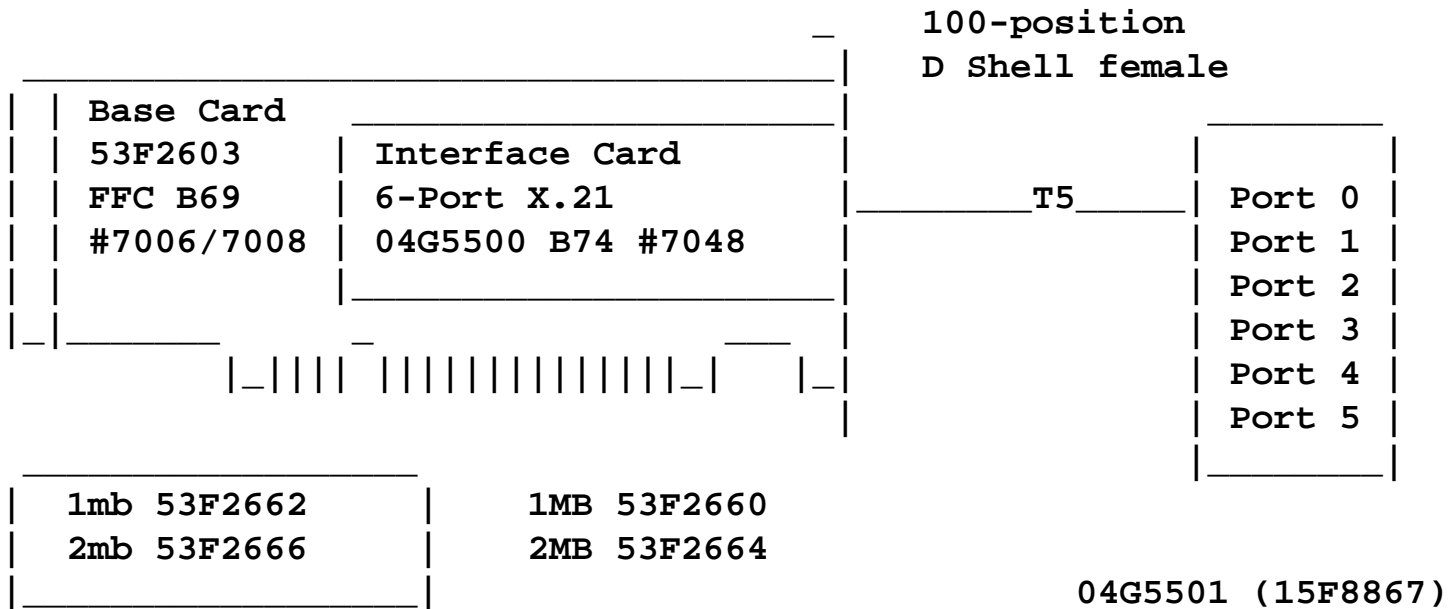
T4- Interface Cable & Box 8-Port 232/422 B81 1.2m #7102

6-Port V.35 Portmaster Adapter/A Type 2-J



T3- Interface Cable & Box 6-Port V.35 B82 1.2m #7106

6-Port X.21 Portmaster Adapter/A Type 2-K #7048

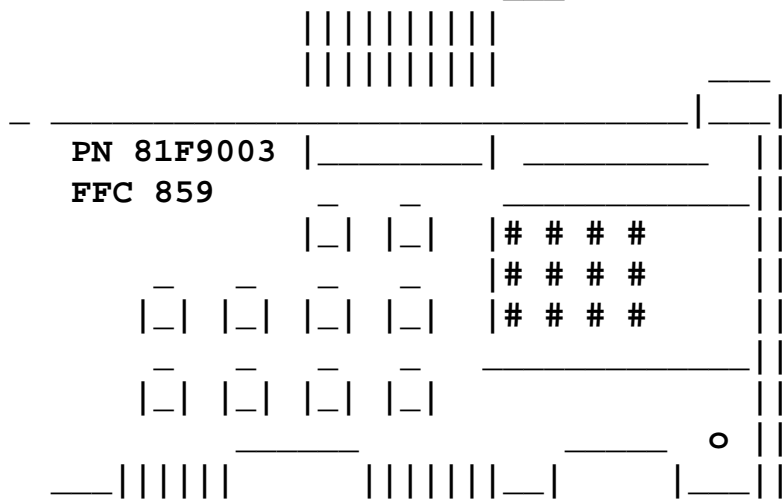


T5- Interface Cable & Box 6-Port X.21 B83 1.2m #7104

FDDI Single Ring Adapter Type 2-6 #2720

Crossover Cable PN81F9012 to...

___ FDDI Dual Ring Upgrade Kit Adapter Type 2-7



Connector..... Media Interface
Connector (MIC)

Jumper Cables..... Fiber Optic,
Cust provided

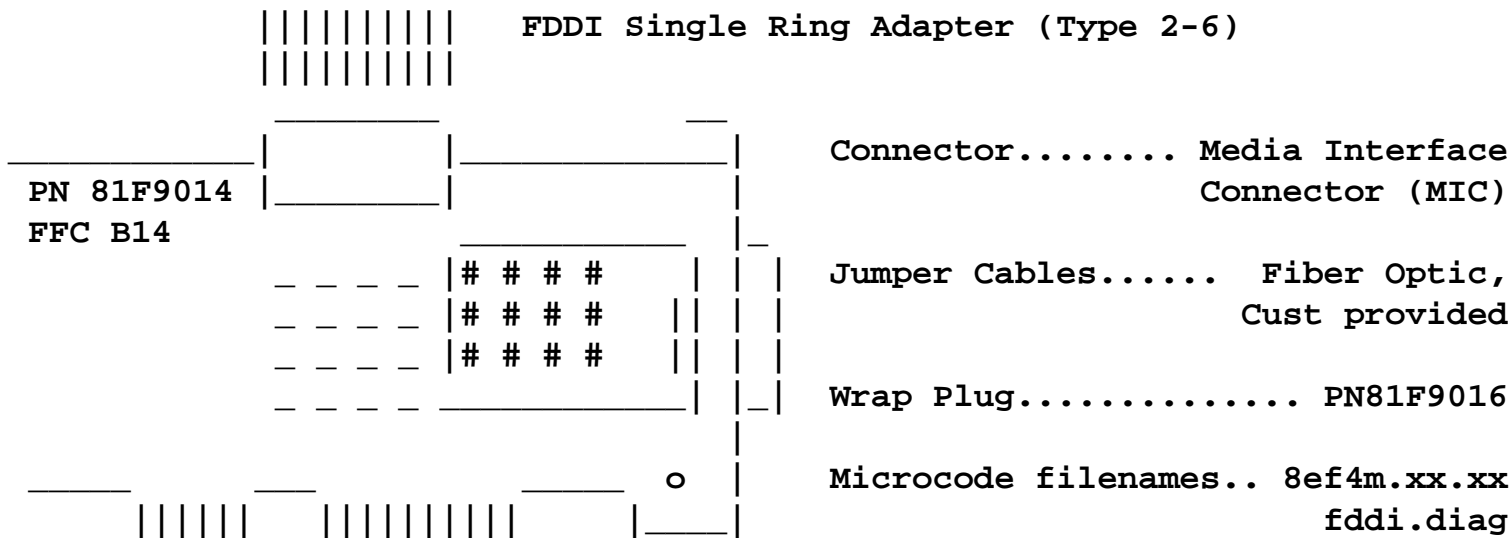
Microcode filenames.. 8ef4m.xx.xx
fddi.diag

Max number 7 (7013/7016) in combination with dual ring upgrade kit.
4 (7012) in combination with dual ring upgrade kit.

Update: 13 mars 2000

FDDI Dual Ring Upgrade Kit Adapter Type 2-7 #2722

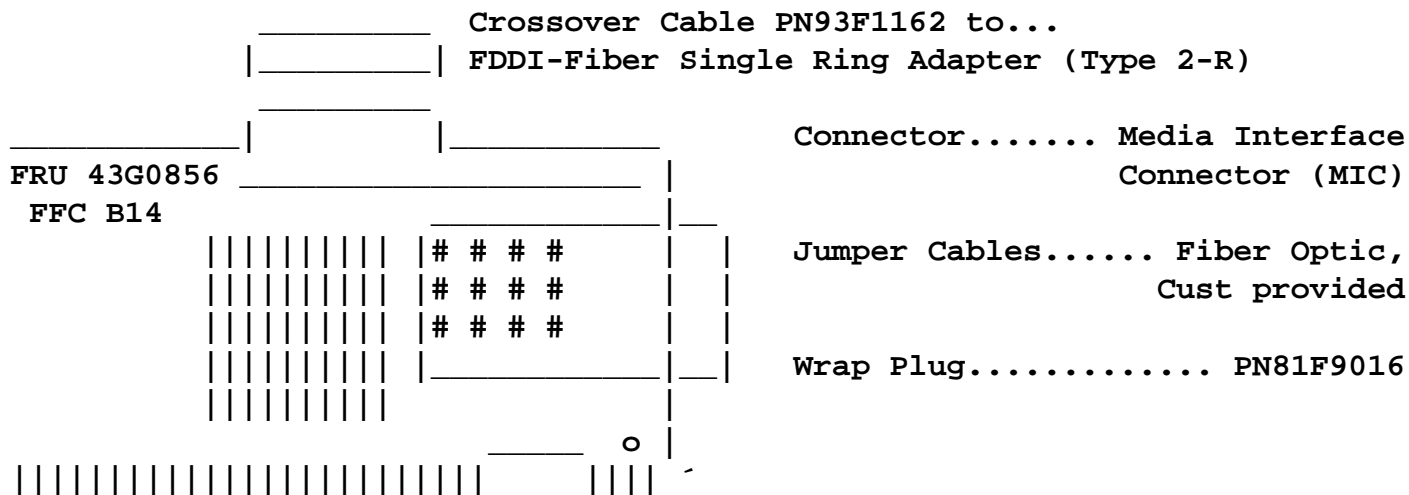
Crossover Cable PN81F9012 to ...
FDDI Single Ring Adapter (Type 2-6)



Max number 3 (7013/7016) in combination with dual ring upgrade kit.
2 (7012) in combination with dual ring upgrade kit.

Update: 13 mars 2000

FDDI Fiber Dual Ring Upgrade Kit Type 2-S #2723



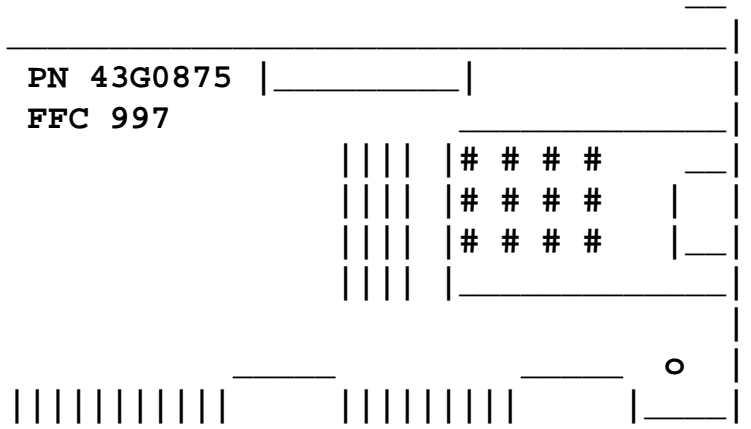
- Max number 1 (7011) in combination with FDDI-Fiber dual ring upgrade
- 2 (7012) in combination with FDDI-Fiber dual ring upgrade kit.
- 3 (7013/7016) in combination with FDDI-Fiber dual ring upgrade kit

43G0856 consists of:

- 1) Card 93F0378
- 2) Wrap Plug 81F9016
- 3) Card Guides
- 4) Xover Cable 93F1162

Update: 13 mars 2000 by Bruno Croft

FDDI STP Single Ring Adapter Type 2-T #2725



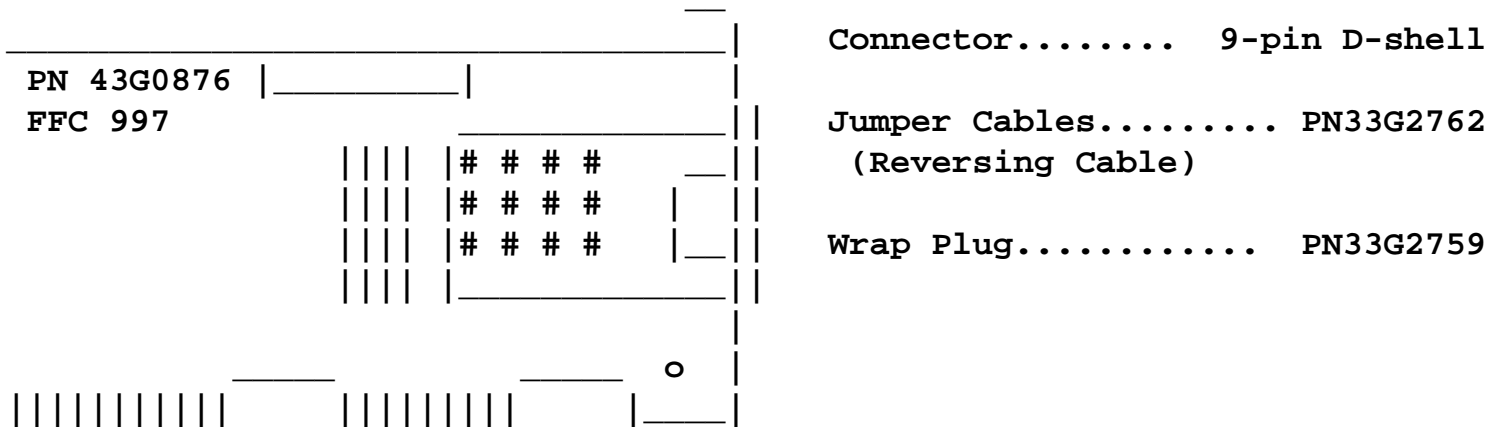
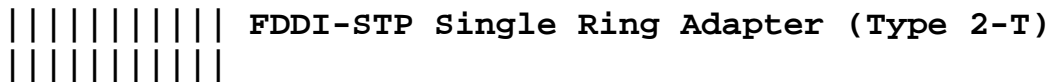
Connector..... 9-pin D-shell
 Jumper Cables..... PN33G2761
 Wrap Plug..... PN33G2759
 Microcode filename.. 8ef4m.xx.xx
 fddi.diag

Max number 2 (7011) in combination with FDDI-STP dual ring upgrade
 4 (7012) in combination with FDDI-STP dual ring upgrade kit.
 6 (7013/7016) in combination with FDDI-STP dual ring upgrade kit

Update: 13 mars 2000 by Bruno Croft

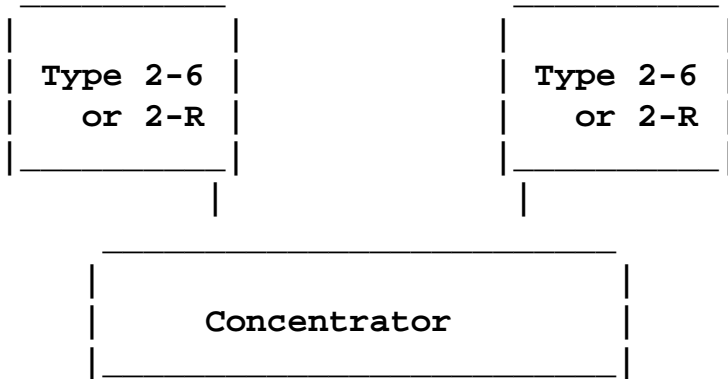
FDDI STP Dual Ring Upgrade Kit Adapter Type 2-U #2726

Crossover Cable PN93F1162 to...



- Max number 1 (7011) in combination with FDDI-STP dual ring upgrade
 2 (7012) in combination with FDDI-STP dual ring upgrade kit.
 3 (7013/7016) in combination with STP dual ring upgrade kit

Single Ring Configuration

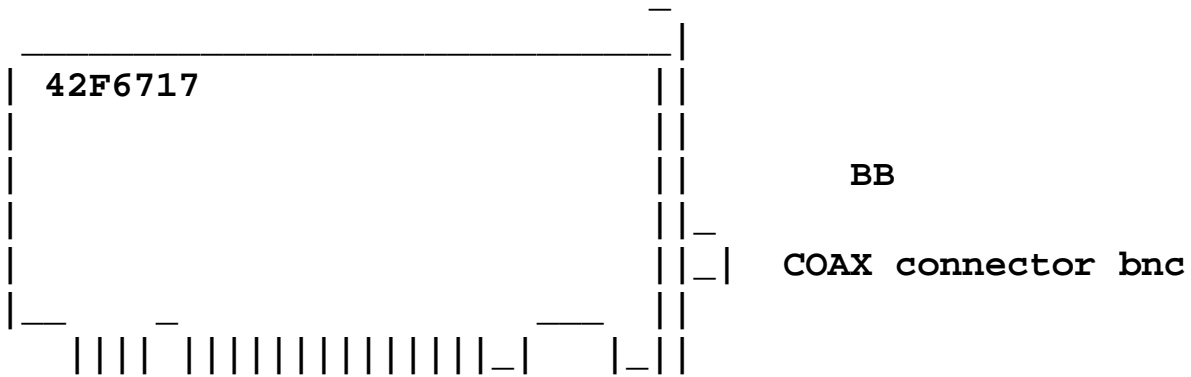


Last update: 13 mars 2000 by Bruno Croft

3270 Connection

Type 5-1 - #2990

3270 Connection (Type 5-1) #2990



BB= Cable Coaxial 5m (16.4ft)..... PN6245998
Interrupt Levels 9 Max number of cards 4

IBM S/370 Block Multiplexer Channel Adapter #2755

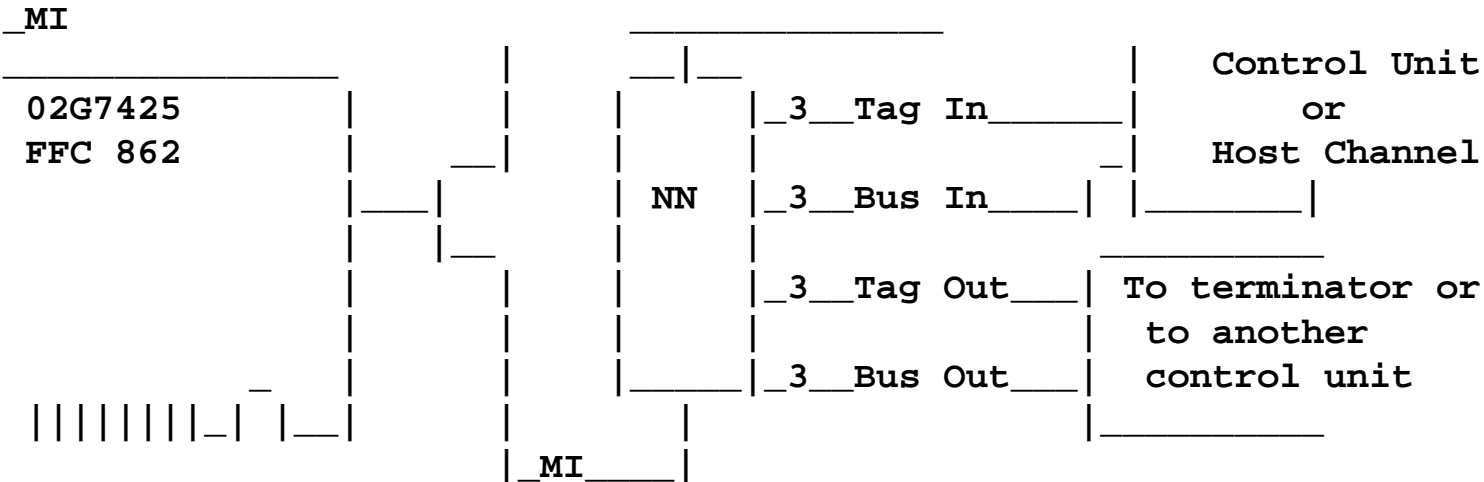
Microcode: blkmuxmc.mc

available from AIXTOOLS as BLKMUX PACKAGE

Manuals:

AIX 3.2.5 User's Guide SC23-2427

AIX 4 User's Guide SC31-8196



Wrap Plugs

MI- Cable 78-position PN92F6697 B04	Adapter.....	71F1184
NN- Cable Interfa Asm PN25F9401 B05	Bus cable.....	8575337
3- Cable Group 0185	Tag cable.....	8575338

Microcode Filenames fe92.xx.xx
 Diagnostic Diskette 2.4.3: PN65G1829

Software Required:

Block Multiplexer Channel Adapter Software Support
 (AIX 3.2 lpp name blkmux.obj 5697-037)
 (AIX 4.1 lpp name devices.mca.fe92.rte 5765-604)

**Note: Don't loose time to serach for these product on a AIX tape.
 They are sold separately**

11/18/97

Escon Channel Adapter (Type 5-3) #2756 & Escon Channel Emulator Adapter (Type 5-3) #2754

This adapter can be used either as Control Unit or Channel Emulator

As a Control Unit (#2756):

Needed Filesets: `escon.cuu` Available from AIXTOOLS as `ESCON PACKAGE`
`devices.mca.8fc3`

Manuals: `AIX V4` - `SC31-8197`

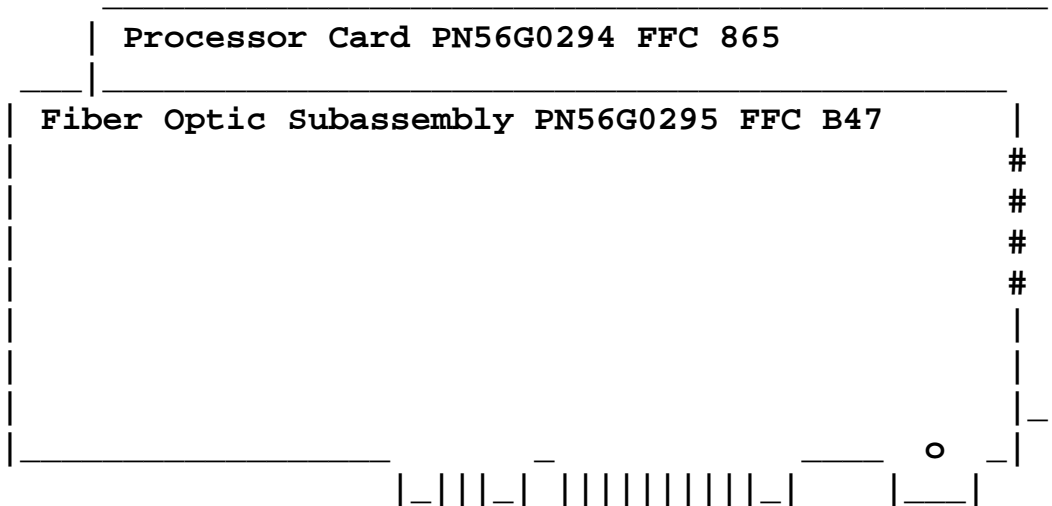
As a Channel Emulator (#2754)

Needed filesets:

`escondiag.obj` ESCON Control Unit Diagnostics
(`escondiag` ESCON Control Unit Diagnostics Support)
`mtdd.driver` AIX Parallel and ESCON Channel
(`mtdd` AIX Parallel and ESCON Channel Tape device driver)
`s390.driver` S390 ESCON Channel Emulator
(`s390` S390 ESCON Channel Emulator Device Driver)

Manual: `AIX Parallel and ESCON Channel Tape Attachment/6000 GA32-0311`

(2 slots required)



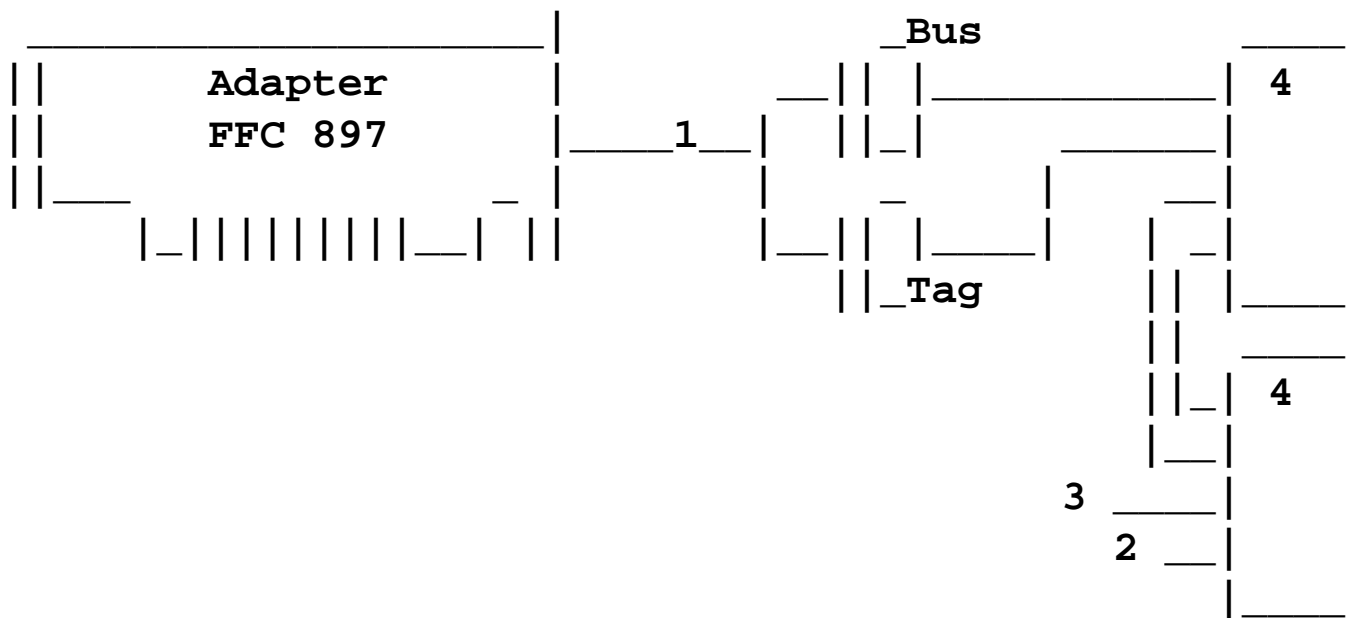
56G0296 (contains the 2 cards 56G0294 + 56G0295)

Fiber Cable	74F5412 (12ft)	74F5415 (70ft)	74F5418 (400ft)
	74F5413 (20ft)	74F5416 (100ft)	
	74F5414 (40ft)	74F5417 (200ft)	
Wrap Plug	5605670		

Last updated: 02/20/98

S/370 Channel Emulator/A Type 5-4 #2759

S/370 Channel Emulator/A Type 5-4 #2759

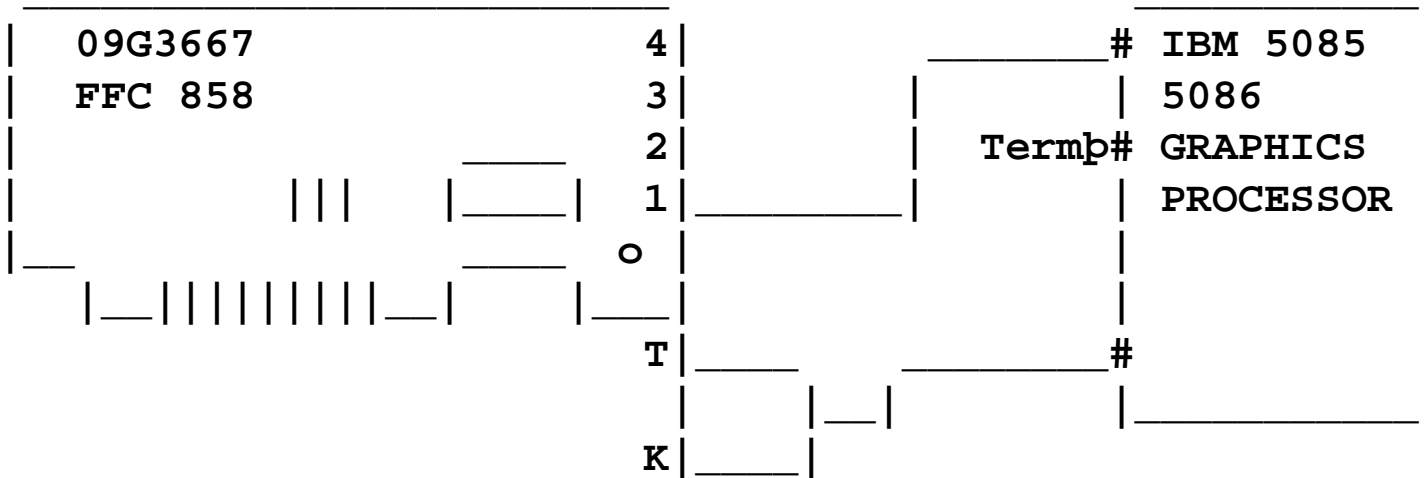


- Adapter.....65G1828
- 1 Interface Cable..... 68F7209*
- 2 Terminators Bus..... 2282675*
- 3 Terminators Tag..... 2282676*
- Wrap Plugs: Bus..... 5479141
- Tag..... 5479139
- 4 Control Unit (Up to Four)

* Shipped with Adapter

5080 Attachment Adapter AA Type 6-2

5080 Attachment Adapter AA Type 6-2



Cable kits: 5085 PN39F8201

5086 PN39F8202

BNC Coaxial Terminator 6246330

Async Expansion Adapter / 7015 (Type 6-3)

Async Expansion Adapter / 7015 (Type 6-3)



Cable: 78-position..... 71F1379

This adapter extends the microchannel bus from the CPU drawer to the async expansion drawer in the IBM 7015 system unit.

Voice Server Attachment Adapter (VSAA/VSCA)

Type 6-5 - 9291/9295

Voice Server Attachment Adapter (VSAA/VSCA Type 6-5) 9291/9295

```

                                                    ---+
Wrap Plugs:                                     +-----+
Adapter/Cable DB-25   34F0874   | FRU 54F0738   | +
IBM 9291 DB-15.....  34F0876   | #6300         | + DB-25
CSU Cable T1 only..  34F0875   |                | + male
Coax, CEPT* only
  male-male.....    61F5394   +-----+   +-+   +-+   +-- |
Coax Network CEPT* only                ++++++  +---- +----
  female-female, 75-0hm.... 61F5395
  * All countries except France
    
```

Cable 9291/9295 Attachment: 2m (6.5 ft)..... 34F0873

Voice Server Dual Attachment Adapter (VSDA)

Type 6-6 - 9291/9295

Voice Server Dual Attachment Adapter (VSDA Type 6-6) 9291/9295

Wrap Plugs:

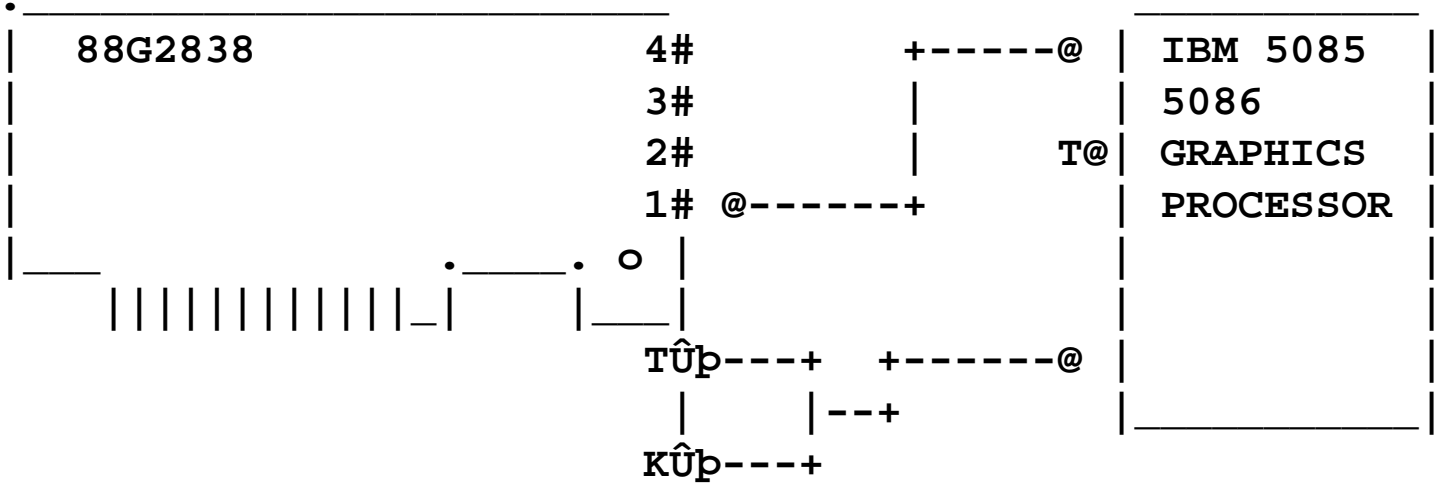
IBM 9291 DB-15.....	34F0876	FRU 80G0417 (43G3317)	62pin female
CSU Cable T1 only..	34F0875	#6305	
Coax, CEPT* only male-male.....	61F5394		
Coax Network CEPT* only female-female, 75-0hm....	61F5395	|_|||_|_|_|_|_|_|_|_|	

* All countries except France

Cable 9291/9295 Attachment: 2cm (7.9in)..... 43G3318

5080 Coax Communication Adapter CCA Type 6-8

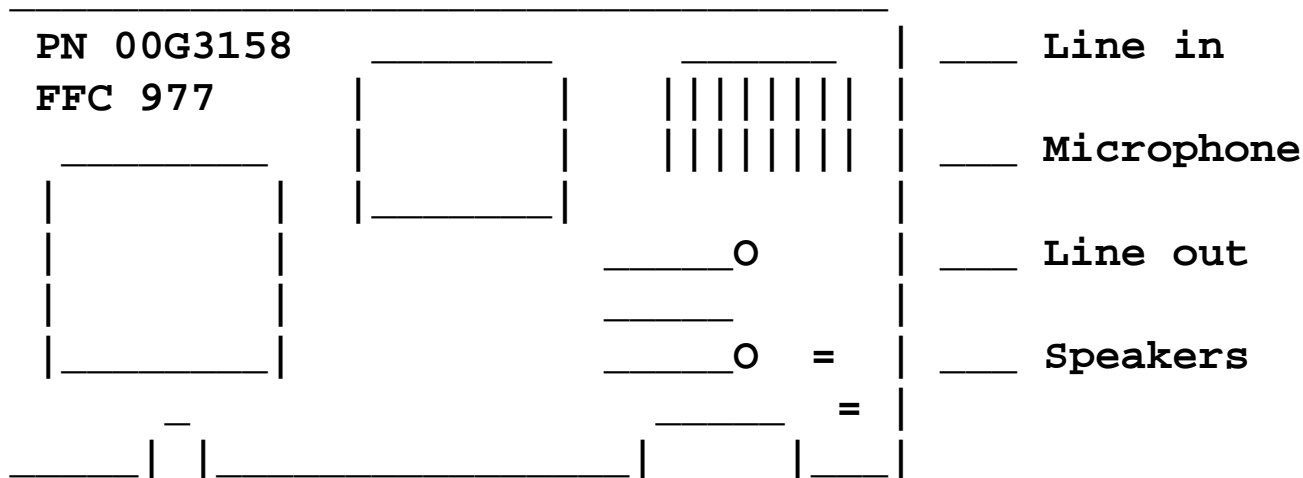
5080 CoaxAttachment Adapter AA Type 6-8 #2840
7011-200 Series and 7006 41T/41W



Ã

M-Audio Capture & Playback Adapter

M-Audio Capture & Playback Adapter



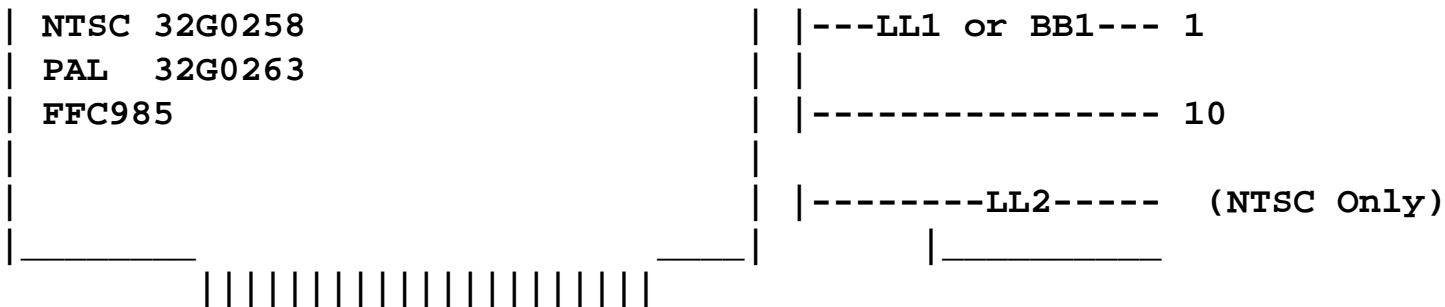
Max number 4 (7012/7013/7016)

Microcode Diskette Assembly 00G3408

M-Video Capture Adapter

(Type 7-2 #2400 NTSC)

(Type 7-3 #2401 PAL)



- LL.... NTSC Customer-supplied cable |----LL or BB----|
- BB.... PAL Customer-supplied cable
- LL1... NTSC IBM-supplied cable set 92F3713
- LL2... NTSC IBM-supplied cable set 92F3713 (PAL no connector)
- BB1... PAL IBM-supplied cable set 92F3714

Ultimedia Video Adapter - Type 7-5

#2404 and #2405

Ultimedia Video Adapter - Type 7-5 #2404

88G3711
JPEG Option
88G3717
#2405

Mandatory Software

AIX 3.2.5

AIX-Windows 1.2.3

Ultimedia Services 1.2.1

OR

AIX 4.1 with AIX-Windows

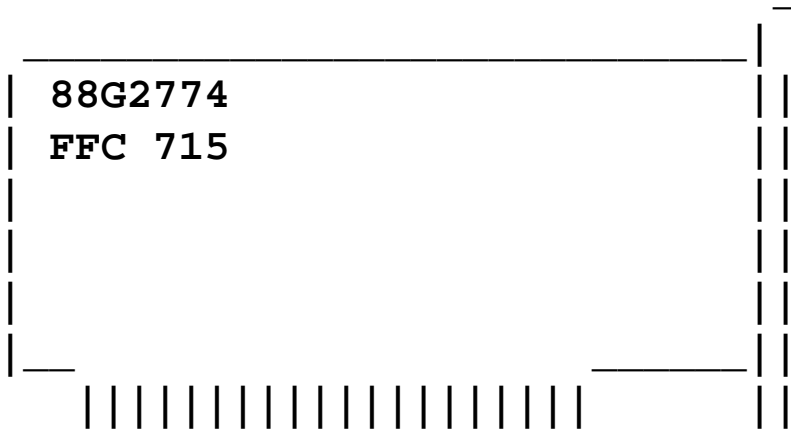
2D and SOMobjct Base Tool Kit

Ultimedia Services 2.1.1

Ultimedia Audio Adapter - Type 7-6

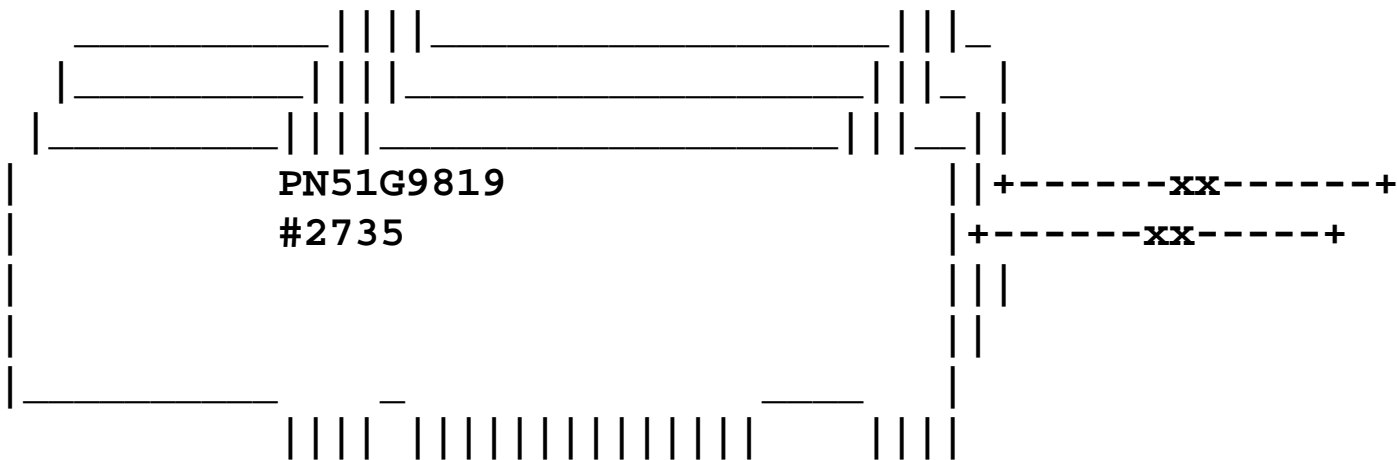
#6302

Ultimedia Audio Adapter (Type 7-6)



High-Performance Parallel Interface (HIPPI) Adapter (Type 8-A 8-B)

High-Performance Parallel Interface (HIPPI) Adapter #2735



- xx Customer-supplied HIPPI Cable**
- Flathead..... 51G9994
- Bonnie..... 51G9995
- Clyde..... 51G9996
- Supp Diag Diskette.. 65G6553

Auto Token-Ring LANstreamer MC 32 Adapter

(Type 8-S) #2972

AIX 3.2.5 Support: SPO enhancement 6 or PTF U443510 bos.obj.8fa2
 Diag: U442641

AIX 4.1 devices.mca.8fa2

						P/N	
	Filler	FRU P/N	86H2123	SMP		Cables:	60G1066 10-inch
			60G1593	UNI US			60G1063 10 ft
			60G1595	UNI EMEA			
		#2972	FFC	85c		Connector	RJ-45 8-pin

[current microcode](#) to support full duplex

[VPD Example 60G1593](#)- [VPD Example 86H2123](#) Interesting RETAIN Tips:

- H162706 MCA Token-Ring LANstreamer full duplex enhancement (US)
- H041321 MCA Token-Ring LANstreamer full duplex enhancement (EMEA)
- H135163 - FRU 40H3304 (P/N73G9782) not supported in SMP !
- H047504 Token-Ring TCP/IP problem
- H057374 Token-Ring machine check and system hang

Interrupt level 2,3,10,11

I/O addresses 0000-FC00 in 0400 increment

Bit rate 4M or 16Mbits per second (set by autosense or program)

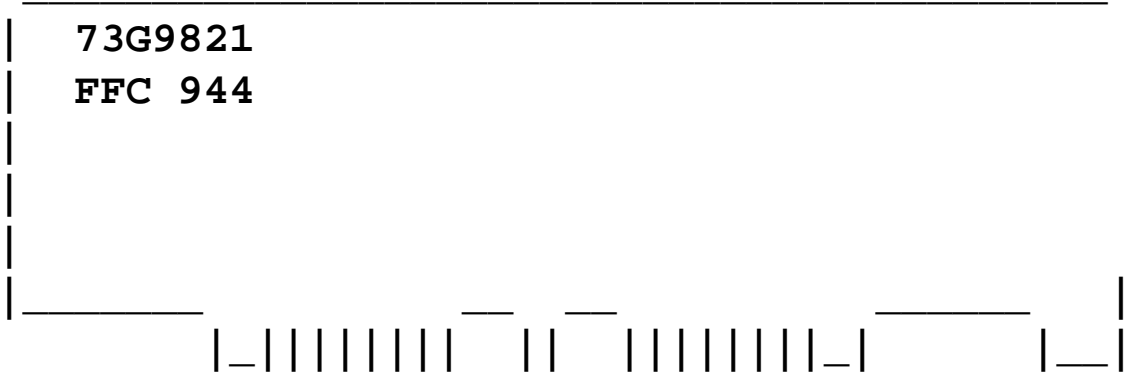
Maximum number N/A

Adapter Configuration Supplement Update

The procedure for "Configuring the IBM 16/4 Adapter" of the Adapter Configuration Supplement that came with your computer does not apply.

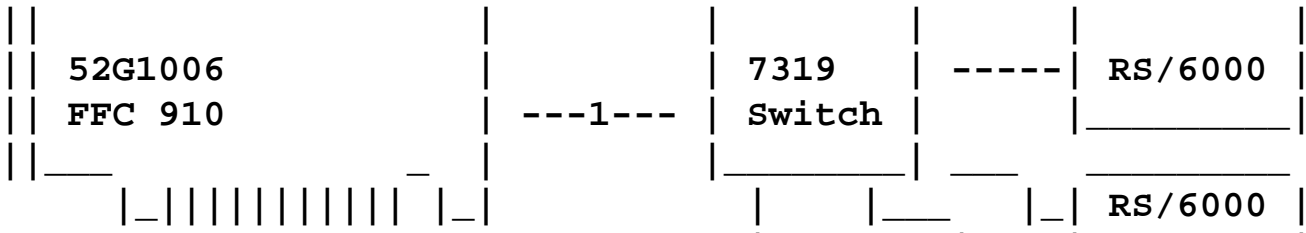
Turboways 100 ATM Adapter/A #2984

TURBOWAYS 100 ATM Adapter - #2984



Support in models 3xx, 5xx and 9xx only.

Fiber Channel/266 Adapter - Type 8-X - #1906



Fiber Optic Cables

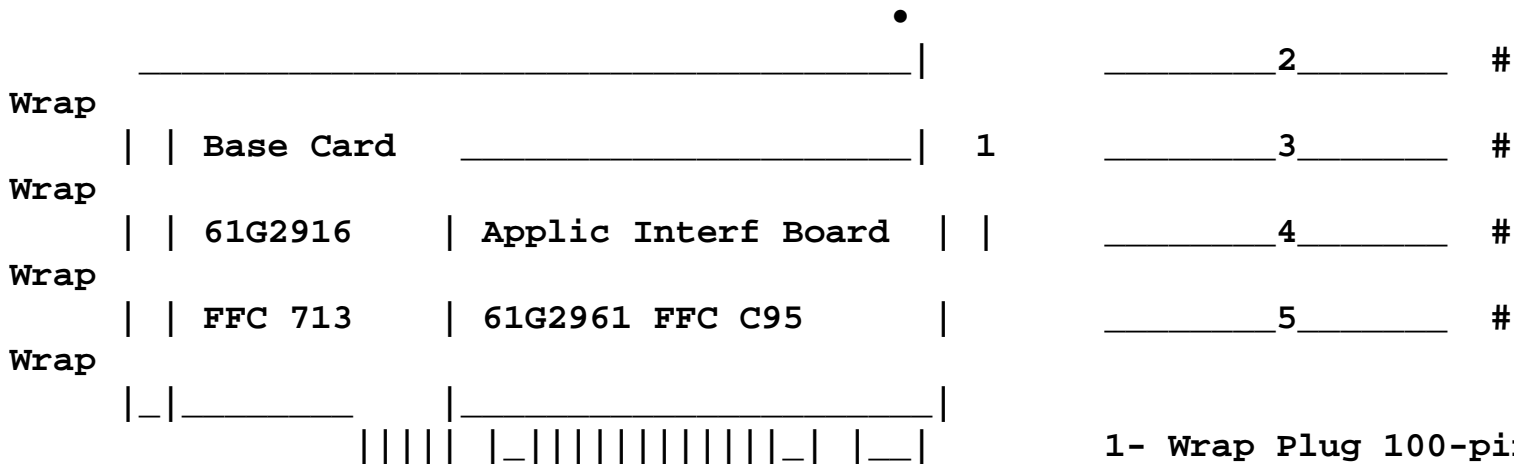
Length	50.5/125	62.5/125
2m	N/A	19G6706
4m	19G4772	19G4864
6m	19G4773	19G4865
10m	19G4774	19G4866
20m	19G4775	19G4867
40m	19G4776	19G4868
60m	19G4777	N/A
80m	19G4778	N/A
100m	19G4799	N/A
Custom	N/A	19G4863

Wrap plugs: 99F4916 End cable
19G4881 connector

Microcode filename:
8feld.00.00 (Diag)
8fel.00.01 (Functional)

ARTIC960 Adapter - #2921, 2924, 2928

ARTIC960 Adapter - #2921, 2924, 2928



Part Description	PN	FC	Length	Wrap PL
2- Cable Option EIA 232D	61G2919	#2922	1.8m	33F8995
3- Cable Option EIA 530 (RS422)	61G2924	#2923	1.8m	53G0639
4- Cable Option ISO 4902 (V.36)	61G2934	#2926	1.8m	53G0641
5- Cable Option ISO 4093 (X.21)	61G2929	#2927	1.8m	53G0638
1MB memory module FFC C94	59F4581			
4MB memory module " "	70F9973			
8MB memory module " "	71G6450			
16MB memory module " "	43G1796			

Turboways 155 ATM Adapter (Type 9-9) #2989

FRU 72H3043			
FFC 800	1	ATM Switch	RS/6000
			RS/6000
Fiber Optic Cables			RS/6000
Length	62.5/ 125 Multimode		RS/6000
2m	19G6706		
4m	19G4864		
6m	19G4865		
10m	19G4866		
20m	19G4867		
40m	19G4868		
Custom	19G4863		

Other old P/N or FRU 38H6511, 38H6403, 34H6490

Co-Processor Multiport Adapter, Model 2 ISA #2701

(4-Port)

This adapter does not have an assigned Card Type

Fileset: devices.isa.mm2

P/N	Cables	Port	78-pos	Switch block	FRU
71F0162	--U---	V.35	0		
71F0165	--V---	EIA232D			
71f0164	--W---	X.21			
Cust.	--X---	EIA422A			
			T	Interface Card	FRU
				FRU 84F7540 FFC 781	33F8967 #2701
					FFC 781
71F0165	--V---	EIA232D			
71F0162	--U---	V.35	1		
71F0165	--V---	EIA232D	3	|||||	
71F0165	--V---	EIA232D	2		
30F8966	--K---	EIA422A			

1MB memory: 53F2662

T- Cable + Box 53F2622 / 40F9902

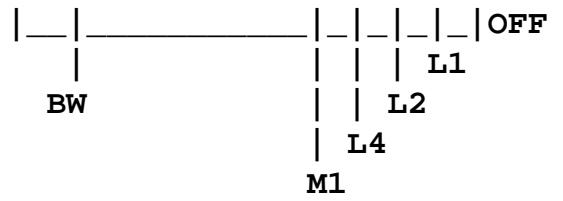
Switch Block

10 9 8 7 6 5 4 3 2 1	
x x x x x x x x x x	ON
	OFF

Switch Setting	
OFF	Co-Processor is in a one-edge connector expansion slot.
ON	Co-Processor is in a two-edge connector expansion slot.

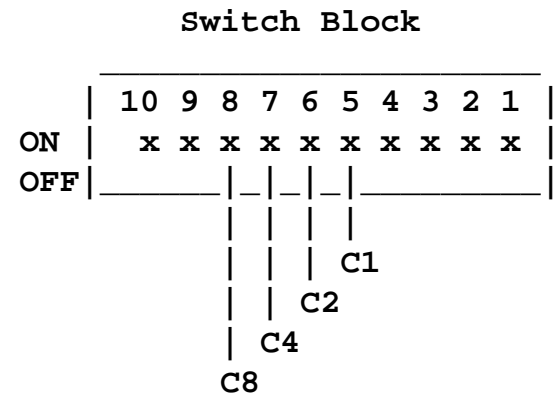
Switch Setting	Interrupt Level	Switch Block
ON | ON | ON	3	10 9 8 7 6 5 4 3 2 1
ON | ON | OFF	4	x x x x x x x x x x | ON

ON	OFF	ON	7
ON	OFF	OFF	2 or 9
OFF	ON	ON	10
OFF	ON	OFF	11
OFF	ON	ON	12
OFF	OFF	OFF	15



Switch Setting	Memory Size	Switch setting	Bus Width Connector
M1		BW	
ON	Reserved	ON	8-bit bus
OFF	1MB	OFF	16-bit bus

Switch Setting				Base Address	Physical Card
C8	C4	C2	C1		
ON	ON	ON	ON	2A0	0
ON	ON	ON	OFF	6A0	1
ON	ON	OFF	ON	AA0	2
ON	ON	OFF	OFF	EA0	3
ON	OFF	ON	OFF	12A0	4
ON	OFF	ON	OFF	16A0	5
ON	OFF	OFF	ON	1AA0	6
ON	OFF	OFF	OFF	1EA0	7
OFF	ON	ON	ON	22A0	8
OFF	ON	ON	OFF	26A0	9
OFF	ON	OFF	ON	2AA0	10
OFF	ON	OFF	OFF	2EA0	11
OFF	OFF	ON	ON	32A0	12
OFF	OFF	ON	OFF	36A0	13
OFF	OFF	OFF	ON	3AA0	14
OFF	OFF	OFF	OFF	3EA0	15



DIP Switch Settings For the 4-Port Adapter

Switch Number	10	9	8	7	6	5	4	3	2	1
First Adapter	Off	On	On	ON	On	Off	Off	On	Off	On
Second Adapter	Off	On	On	ON	Off	Off	Off	On	Off	Off
Third Adapter	Off	On	On	Off	On	Off	Off	Off	On	On

Wrap Plugs:	78-pin.....	40F9902	EIA-232...	40F9903
	V.35 Port..	40F9900	EIA-422A..	53F3886
	X.21.Port..	40F9904		

8-Port Asynchronous EIA-232 ISA Adapter

Type 3-8 #2931

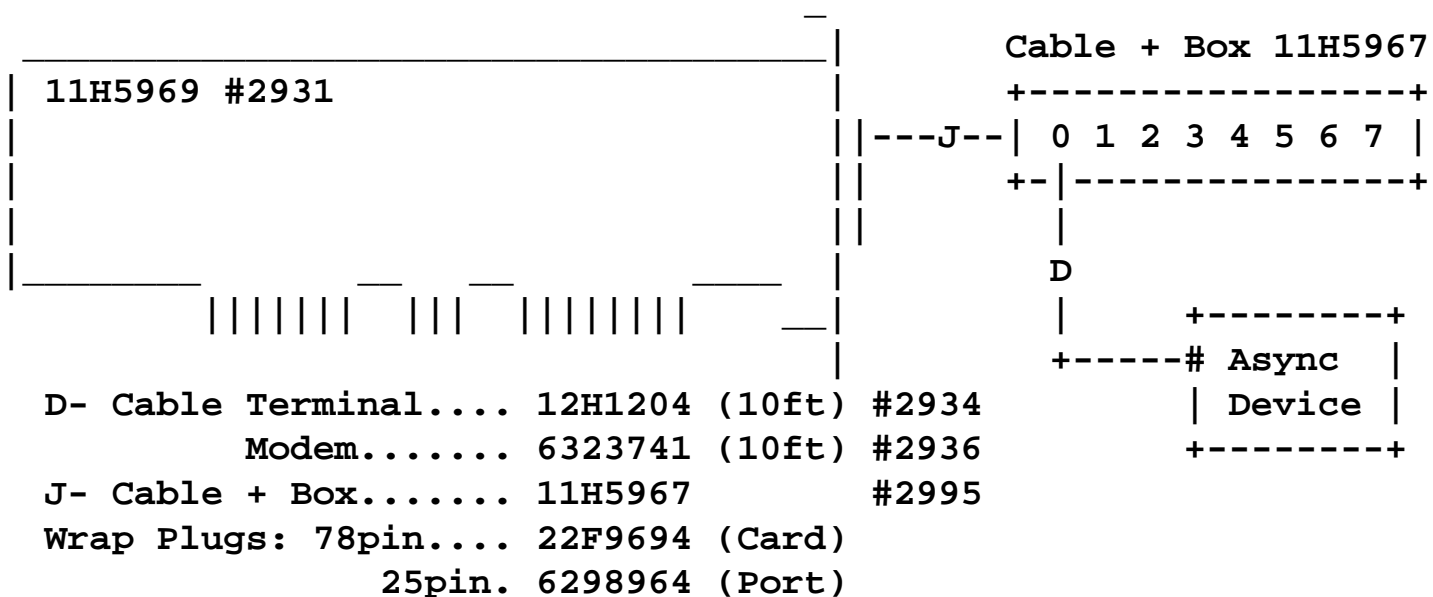
Fileset: devices.isa.cxia

If smit fails try to config the adapter try:

```
mkdev -t pcxr -c adapter -s isa -p bus1 -a bus_io_addr=0x324
```

NOTES: 1. Diagnostics for this adapter does NOT comes on the SMS. Get file

8PORT232.6DG from AIXTOOLS and add it to the SMS diskette



Address Switch				
Hex Addr	1	2	3	4
104	Off	Off	On	On
114	Off	On	Off	On
124	Off	On	On	On
204	On	Off	Off	On

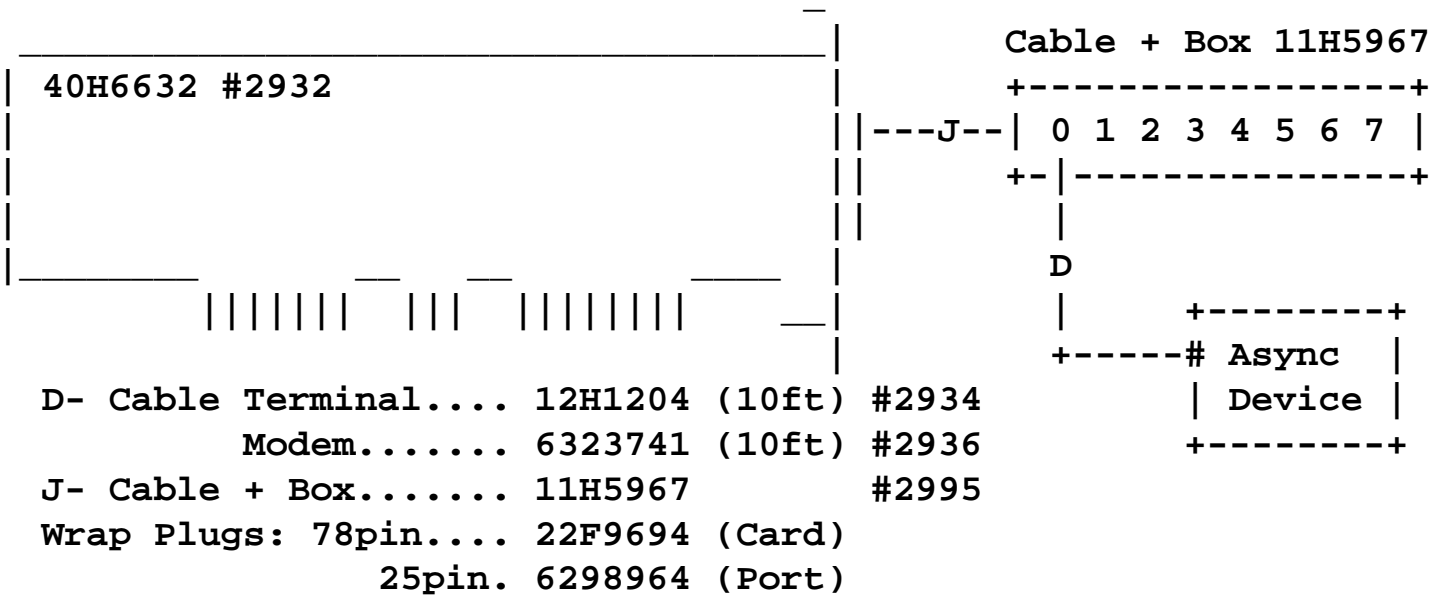
224	On	Off	On	On
304	On	On	Off	On
324	On	On	On	On

8-Port Asynchronous EIA-232E/RS-422A ISA Adapter

Type 3-A #2932

This adapter is only supported at 4.2

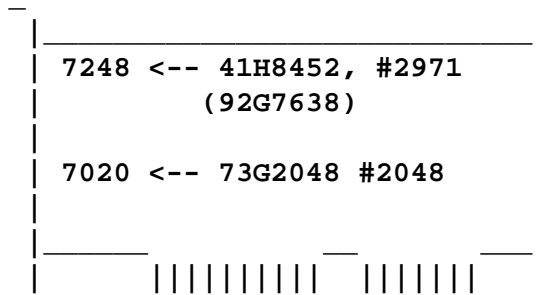
Fileset: devices.isa.pc8s.rte



Address Switch				
Hex Addr	1	2	3	4
104	Off	Off	On	On
114	Off	On	Off	On
124	Off	On	On	On
204	On	Off	Off	On
224	On	Off	On	On

304	On	On	Off	On
324	On	On	On	On

Adapter Configuration Supplement Update



#2048 has DIP switched
 92G7638 has only one connector RJ-45
 41H8452 has RJ-45 and DB-9 connectors.

The procedure for "Configuring the IBM 16/4 Adapter" of the Adapter Configuration Supplement that came with your computer does not apply.

The following procedure for the IBM Auto 16/4 Token-Ring ISA Adapter supersedes the "Configuring the IBM AUto 16/4 Tokne-Ring ISA Adapter" procedure of the Adapter Configuration Supplement

Configuring the IBM Auto 16/4 Token-Ring ISA Adapter

The IBM Auto 16/4 Token-Ring ISA Adapter is configured using the System Management Services diskette that shipped with your computer. To configure an IBM Auto 16/4 Token-Ring ISA Adapter do the following:

Note: Although the System Management Services program menus show parameter selections for primary and alternate IBM Auto 16/4 Token-Ring ISA Adapters, only one of these adapters may be installed at a time, and it must use the settings for the primary adapter.

1. If your computer is running, shut the operating system down and turn the power off.
2. Remove all existing ISA adapters from the computer. Refer to documentation that shipped with your computer for information on identifying and removing ISA adapters.
3. Install the new adapter in your computer.
4. Insert the System Management Services (SMS) diskette in the drive.
5. Turn on the computer.

Note: For additionnal information about the System Management Services, refer to the "Extended System Management Services Program" appendix in the documentation that shipped with your computer.

6. Press F4 as soon as the keyboard icon (first icon) appears on the screen.
Note: Press F4 after the keyboard icon appears on the screen, but before the last icon appears.
7. Use the Up Arrow and Down Arrow keys to select Utilities, and press Enter
8. Select Remote Initial Program Load Setup and press Enter
9. Select Adapter Parameters and press Enter.
10. Select Search for Other Adapters and press Enter.
11. Select Configure Token Ring Adapter and press Enter
12. Press F6 to Run Selected Choice. The default adapter setting are displayed

13. Press Esc.
14. Select Yes for the "Menu" prompted path and press Enter
15. Make the appropriate choice from each parameter menu (refer to the following table for parameter settings), then press Enter.

Note: The current setting for the adapter are displayed in each menu. Press Esc to leave the setting unchanged. The next parameter displays. When you finish setting the parameters, go to step 16.

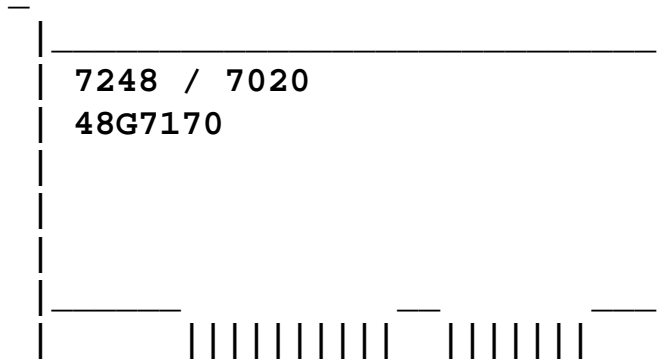
Parameters	Settings	
		(1) No other adapters can use this interrupt.
		Do not use interrupt 3, this interrupt is reserved for the Async port.
I/O Address	A20	
Interrupt (1)	9	(2) Can not use C000 through CC000 ROM or RAM addresses because system graphics uses this range on a Power Series 830 or Power Series 850 or Power Series 850
Ram Address (2)	D0000	
RAM Size (3)	32KB	(3) Select 32KB. Do not select any other values.
ROM Address	DC000	
Remote IPL	Disabled	(4) The TR Data Rate must match the data rate of the LAN segment.
TR Data Rate (4)	16/4KB	
Auto Sense (5)	Disabled	(5) Autosense must be disabled if present.

16. New Adapter setting are displayed.
17. Press Esc to save the new setting.
18. Press ENTER to exit program.
19. Turn the computer off (the computer must be turned off and back on to reset to the new adapter configuration settings).
20. Install any adapters that were removed in the beginning of this procedure.

Record the configuration setting in the "Computer Records" appendix in the documentation that shipped with your computer.

ISA Ethernet adapter for 7020 / 7248 - #2981

- **Fileset:**
 devices.isa.ethernet.rte (AIX 4.1 only)
 devices.isa.IBM0010.rte (AIX 4.1, 4.2, 4.3)
- Click [here](#) for configuration help



ISA adapter are not automatically recognized on boot and cfgmgr. It must be configured in smit / devices / ISA adapter and following data to be used depending of other ISA adapters.

ADAPTER	I/O IRQ	BASE ADDRESS	RAM ADDRESS
=====			
1st and only adapter	11	0300	D0000
1st with 1 Token-ring	11	0300	D0000
1st with 2 Token-ring	11	0300	D0000
1st with 1 X.25	9	0300	D0000
1st with 2 X.25	7	0300	D0000
1st with 1 Token-ring & 1 X.25	7	0300	D0000
2nd and only adapter	9	0240	D4000
2nd with 1 Token-ring	7	0240	D4000
2nd with 1 X.25	7	0240	D4000
3rd	7	0280	D8000

Created: 28 Oct 1999



PCI 4755-023 PCICryptographic Adapter

A97-0253

Prerequisites

AIX 3.2 No support

AIX 4.1 or 4.2

Internet site you may want to look at:

<http://www.ibm.com/Security/html/cryptography.html>

Integrated SCSI-1

7012 / 7013 / 7015

(Not 7012-380/390/39H)

Integrated SCSI-1	
7012/7013/7015	T 1

Note:

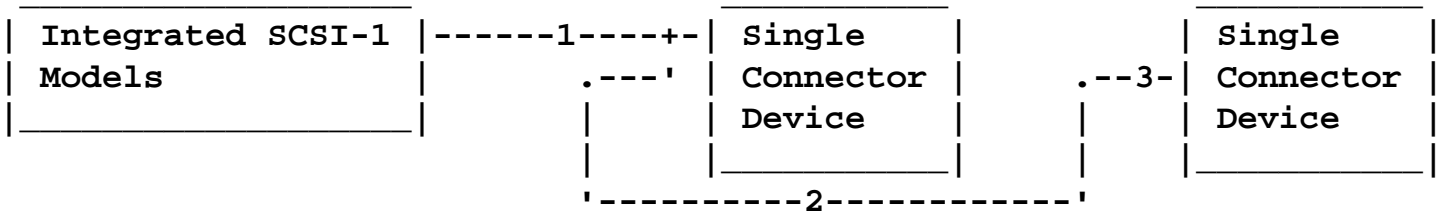
A SCSI terminator is required when no external cable or device is attached.

Part Description	FC	PN	Length
1- Terminator 50-pos high-density FPT18C	N/A	52G4259	N/A
(No longer manufactured but usable FPT-3)	N/A	00G2223	N/A

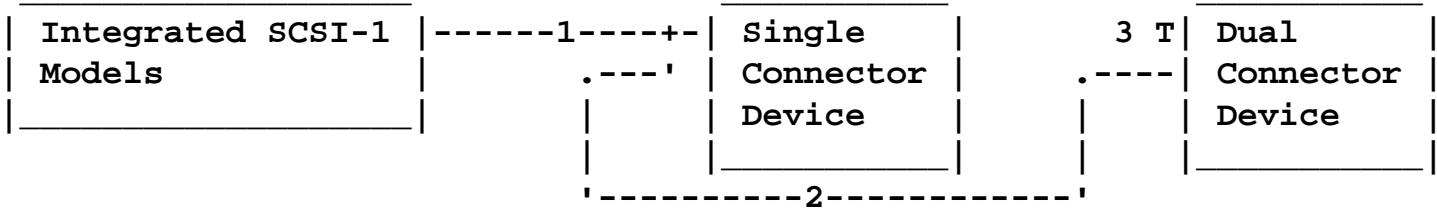
Integrated SCSI-1 Models	-----1-----2-	Single Connector Device
--------------------------	---------------	-------------------------

Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 1-Connector Device	#2836	32G0397	1.57m

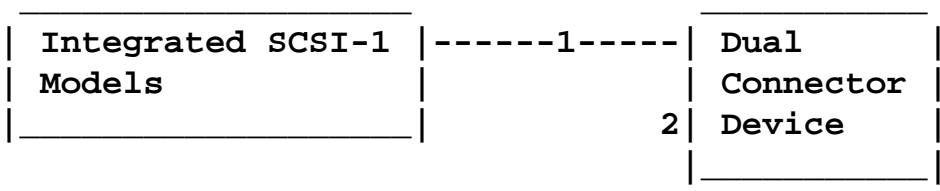
2- Terminator 50-pos high-density	FPT18C	52G4260
(No longer manufactured but usable FPT-3)		00G0968



Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 1-Connector Device	#2836	32G0397	1.57m
2- Cable Device-to-Device			
For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator 50-pos high-density	FPT18C	52G4260	
(No longer manufactured but usable FPT-3)		00G0968	

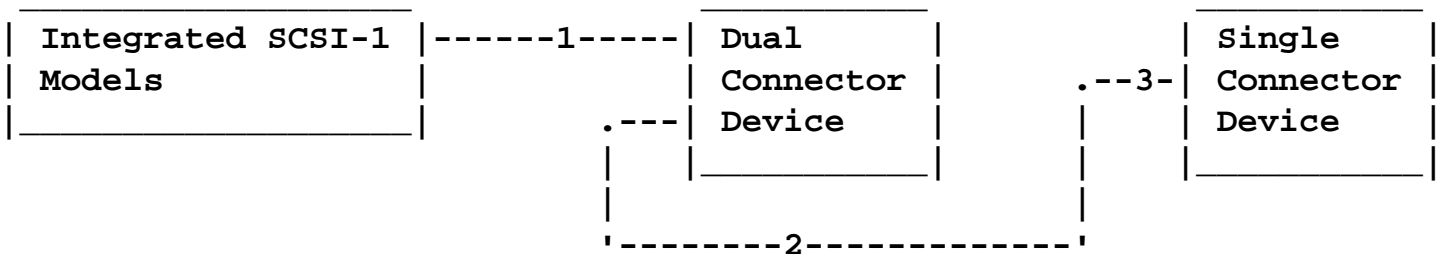


Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 1-Connector Device	#2836	32G0397	1.57m
2- Cable Device-to-Device			
For 2-Connector Device	#2840	33F4607	0.66m
3- Terminator 50-pos high-density FPT18C		52G4260	
(No longer manufactured but usable FPT-3)		00G0968	

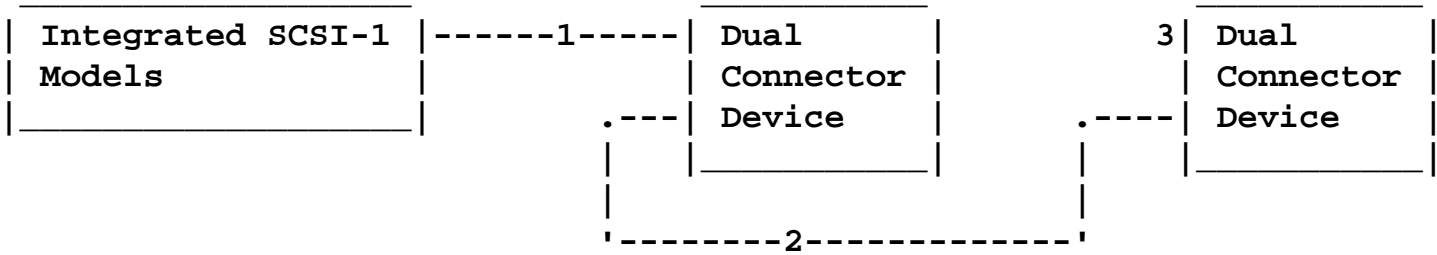


Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 2-Connector Device	#2838	8191425	1.5m

2- Terminator 50-pos high-density	FPT18C	52G4260
(No longer manufactured but usable FPT-3)		00G0968



Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 2-Connector Device	#2838	8191425	1.5m
2- Cable Device-to-Device			
For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator 50-pos high-density	FPT18C	52G4260	
(No longer manufactured but usable FPT-3)		00G0968	



Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 2-Connector Device	#2838	8191425	1.5m
2- Cable Device-to-Device			
For 2-Connector Device	#2840	33F4607	0.66m
3- Terminator 50-pos high-density FPT18C		52G4260	
(No longer manufactured but usable FPT-3)		00G0968	

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Integrated SCSI-2 7006 / 7008 / 7009 / 7011-250
and
Integrated SCSI-1 7011-220/230
fileset: devices.mca.8ef2.*

Integrated SCSI	1
7006/7008/7009/7011	

Note:

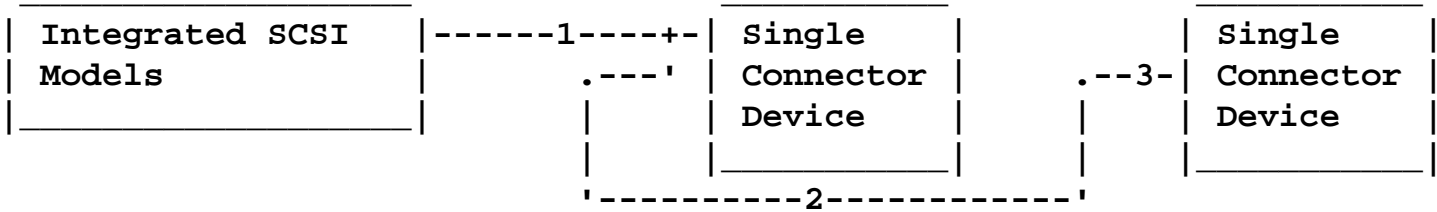
A SCSI terminator is required when no external cable or device is attached.

Part Description	FC	PN	Length
1- Terminator 50-pin high-density FPT18C	N/A	52G4259	N/A
(No longer manufactured but usable FPT18+)	N/A	51G7737	N/A
(No longer manufactured but usable FPT18)	N/A	43G0378	N/A

Integrated SCSI	-----1-----2	Single
7006/7008/7009/7011		Connector
		Device

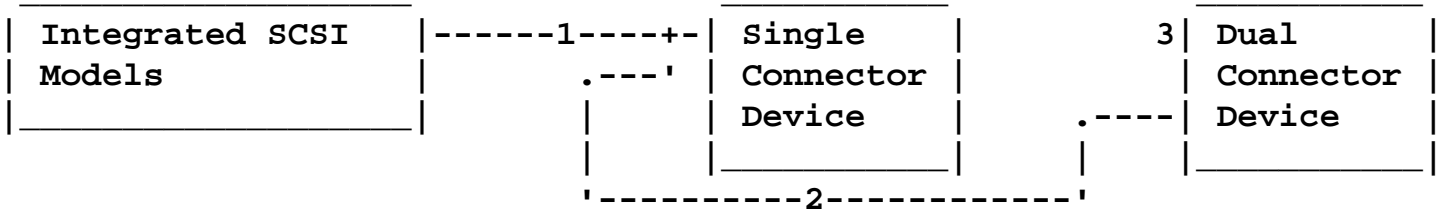
Part Description	FC	PN	Length
------------------	----	----	--------

1- Cable Controller-to-Device:				
For 1-Connector Device	#2836	32G0397	1.57m	
2- Terminator 50-pos low-density FPT18C				
(No longer manufactured but usable FPT18+)	#2836i	52G4260	N/A	
(No longer manufactured but usable FPT18)		51G7736	N/A	
		43G0467	N/A	



Part Description	FC	PN	Length	
1- Cable Controller-to-Device:				
For 1-Connector Device	#2836	32G0397	1.57m	
2- Cable Device-to-Device				
For 1-Connector Device	#3130	31F4222	0.66m	
3- Terminator 50-pos low-density FPT18C				
(No longer manufactured but usable FPT18+)	#2836i	52G4260	N/A	
		51G7736	N/A	

(No longer manufactured but usable FPT18) | | 43G0467 | N/A



Part Description	FC	PN	Length
------------------	----	----	--------

1- Cable Controller-to-Device:

For 1-Connector Device	#2836	32G0397	1.57m
------------------------	-------	---------	-------

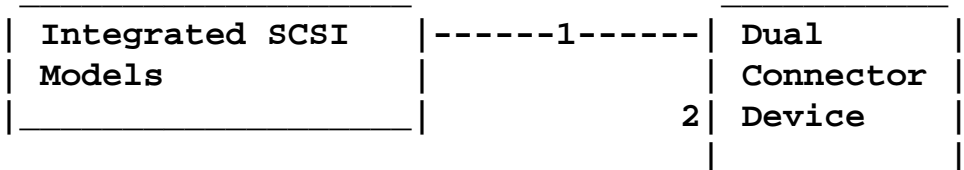
2- Cable Device-to-Device

For 2-Connector Device	#2840	33F4607	0.66m
------------------------	-------	---------	-------

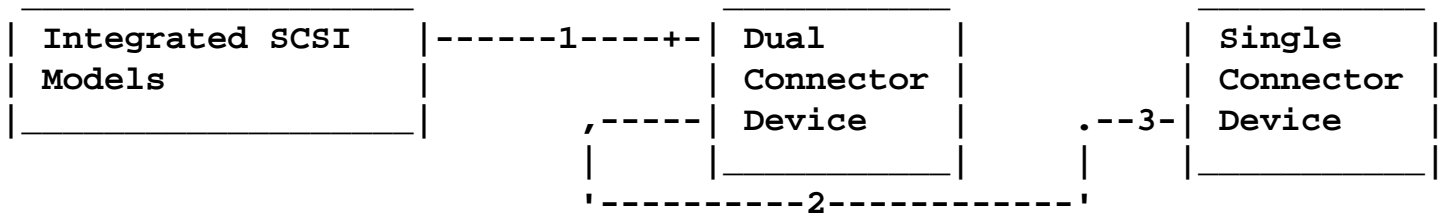
3- Terminator 50-pos low-density	FPT18C	#2836i	52G4260	N/A
----------------------------------	--------	--------	---------	-----

(No longer manufactured but usable FPT18+) | | 51G7736 | N/A

(No longer manufactured but usable FPT18) | | 43G0467 | N/A

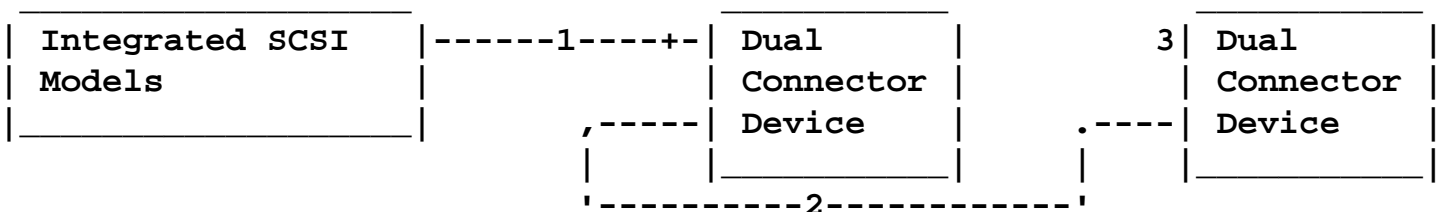


Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 2-Connector Device	#2838	8191425	1.5m
2- Terminator 50-pos low-density	FPT18C	#2836i	52G4260
(No longer manufactured but usable FPT18+)		51G7736	N/A
(No longer manufactured but usable FPT18)		43G0467	N/A



Part Description	FC	PN	Length
1- Cable Controller-to-Device:			
For 2-Connector Device	#2838	8191425	1.5m
2- Cable Device-to-Device			
For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator 50-pos low-density	FPT18C	#2836i	52G4260

(No longer manufactured but usable FPT18+)		51G7736	N/A
(No longer manufactured but usable FPT18)		43G0467	N/A



Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device	#2838	8191425	1.5m
2- Cable Device-to-Device For 2-Connector Device	#2840	33F4607	0.66m
3- Terminator 50-pos low-density FPT18C (No longer manufactured but usable FPT18+) (No longer manufactured but usable FPT18)	#2836i	52G4260	N/A

Internal SCSI cables:

3-drop 7006..... 88G2577
 4-drop 7009..... 65G8006

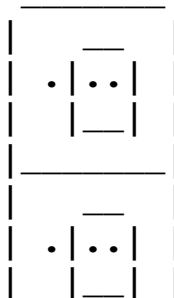
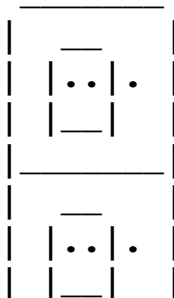
	Internal Cable Length	Maximum SCSI Bus Length	Maximum External Devices
7006/7009	.76m	3m	2
7008	negligible	6m	
7011-220/230	.76	6m	
7011-250	.2	3m (Note1) 6m (Note2)	3

Note1: If 1 SCSI-2 Devices
7011-220/230 scsi-1

Note2: If only SCSI-1 Device
7011-250 scsi-2

Disabled

Enabled



Disable/Enable the SCSI Connector
(7011)

Optional security for SCSI is

provided by five jumpers (JP1) on the system board. These jumpers (when set to the disabled position) prevent communication through the external SCSI connector. The default setting of the jumpers from the manufacturer is SCSI connector enabled.

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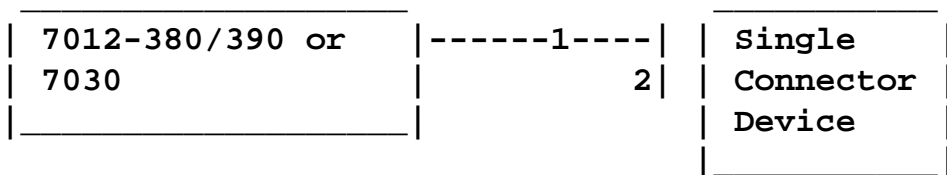
Ooo-----

r O u t s t a n d i n g i n t h e f i e l d !

Integrated SCSI-2 F/W Controller

7012-380/390 and 7030-3AT/3BT

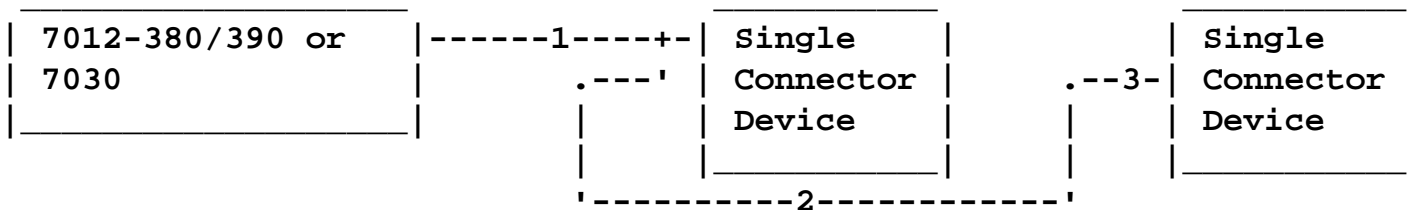
Standard cables allow max length 9.9 ft (3 meters) internal + external



NOTE:

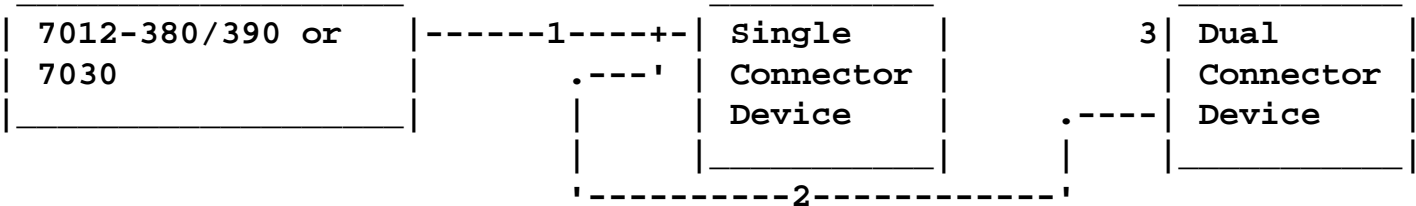
No external terminator is needed on the system SCSI connector if the external bus is not used.

Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 1-Connector Device	#2439	52G4231	1.5m
2- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A N/A

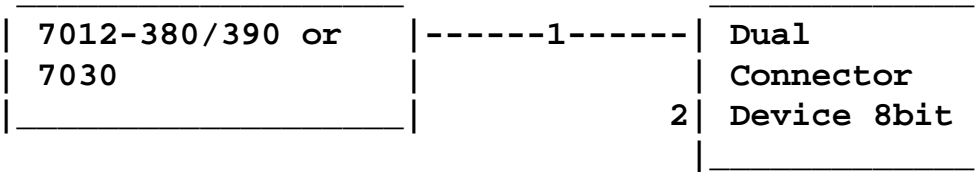


Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 1-Connector Device	#2439	52G4231	1.5m

2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A N/A

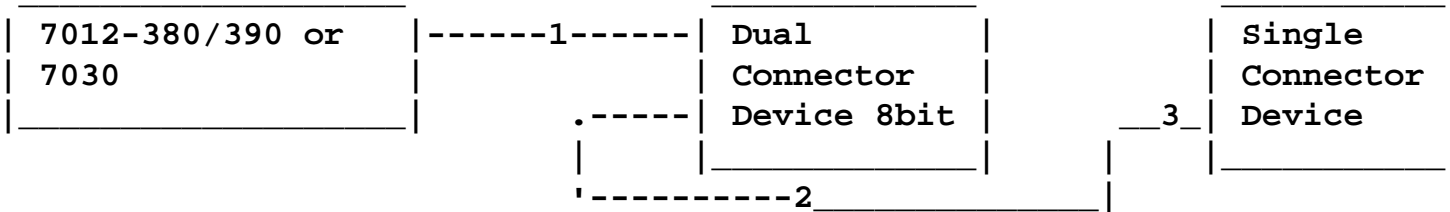


Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 1-Connector Device	#2439	52G4231	1.5m
2- Cable Device-to-Device For 1-Connector Device	#2840	33F4607	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A N/A

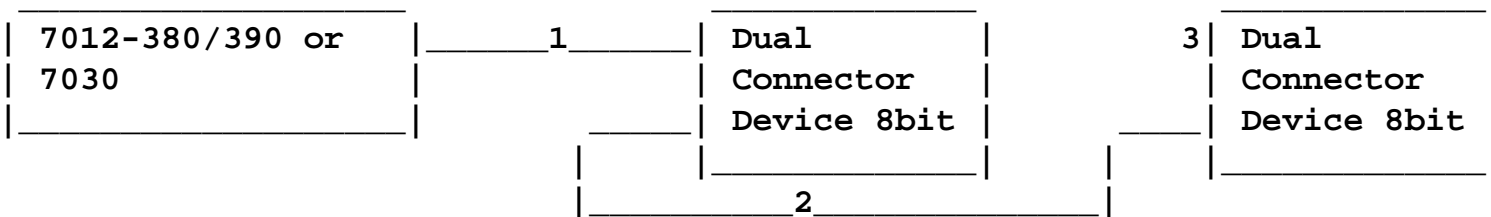


Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device Narrow	#2437	92F2559	1.5m
2- Terminator SCSI 50-pos lo-density FPT-18C		52G4260	N/A

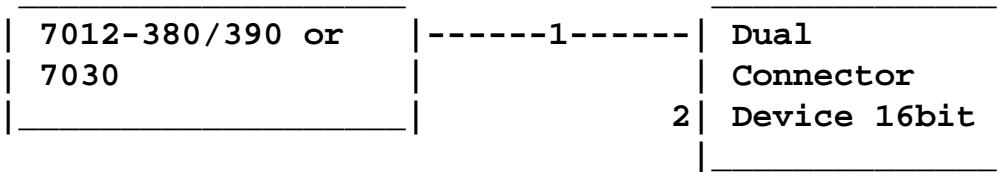
(No longer manufactured but usable FPT18+)		51G7736	N/A
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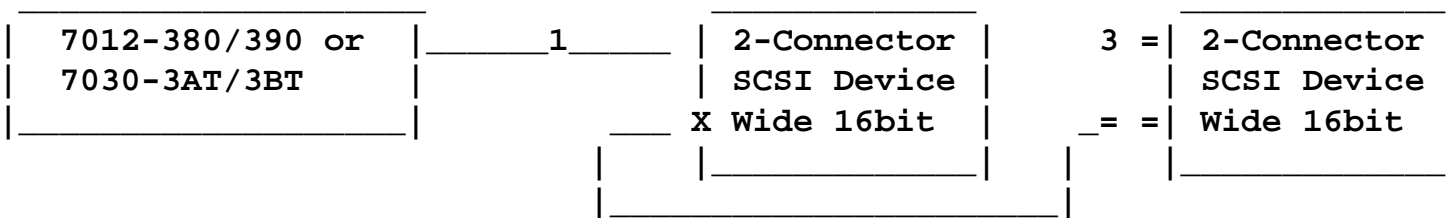
Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device Narrow	#2437	92F2559	1.5m
2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A N/A



Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device narrow	#2437	92F2559	1.5m
2- Cable Device-to-Device For 2-Connector Device	#2840	33F4607	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A N/A

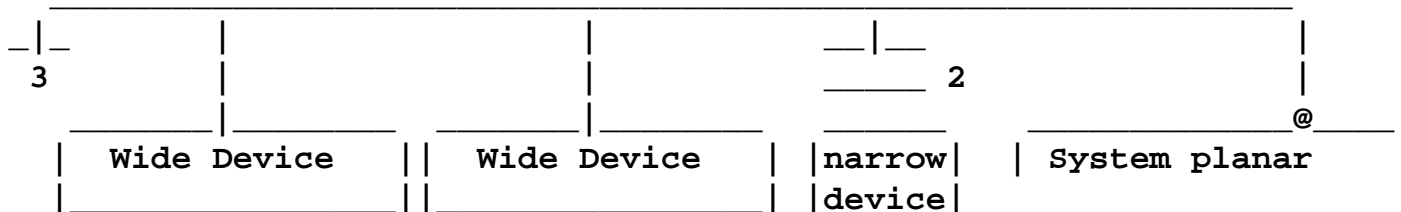


Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device Wide	#2435	52G9501	1.5m
2- Terminator SCSI 68-pos hi-density Boulay		52G9907	



Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device Wide	#2435	52G9501	1.5m
2- Cable Device-to-Device For 2-Connector Device wide	#2860	52G9921	0.5m
3- Terminator SCSI 68-pos hi-density Boulay		52G9907	

Optional Internal Cabling





Cable Description	FC	P/N for Mach/Type
1- Internal SCSI cable 16-bit Wide	????	52G4850
2- 68pin-to-50pin interposer for narrow device		92F2565 92F0324
3- Terminator: Wide.....		88G3977

High-Availability is not supported with this controller

07/06/98

Integrated SCSI-2 F/W Cable for 7024/7025

Internal Cable:

7024 7-drop.... 52G0170

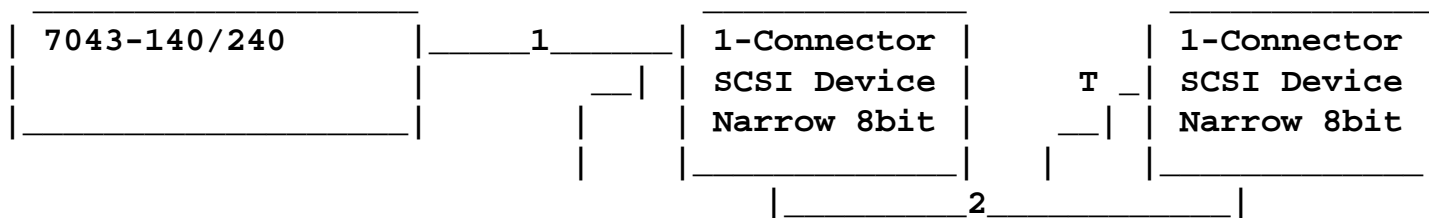
7025 4-drop 16-bit.... 73H0725

SCSI adapter to backplane(up to 3).... 06H6660



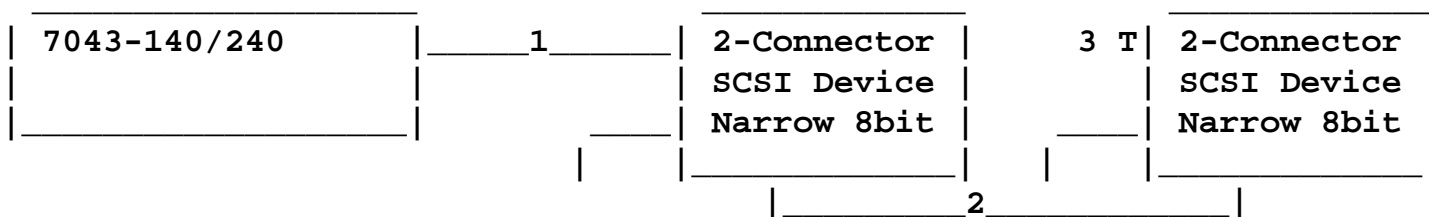
SCSI-2 Fast/Wide Integrated Adapter on 7043-140/240

Cabling with narrow devices



Cable Description	FC#	PN	Length
1- Adapter-to-Single-Connector-Device 8bit Narrow Bus.....	2113	52G0174	1.5m
2- Device-to-Device narrow bus 8bit Narrow Bus	3130	31F4222	0.66m
3- Terminator 50-pin lo-density narrow		52G4260	N/A

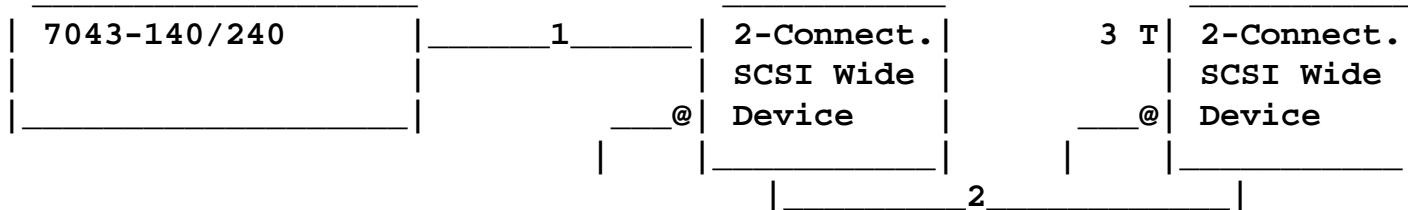
Cabling with narrow devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device			

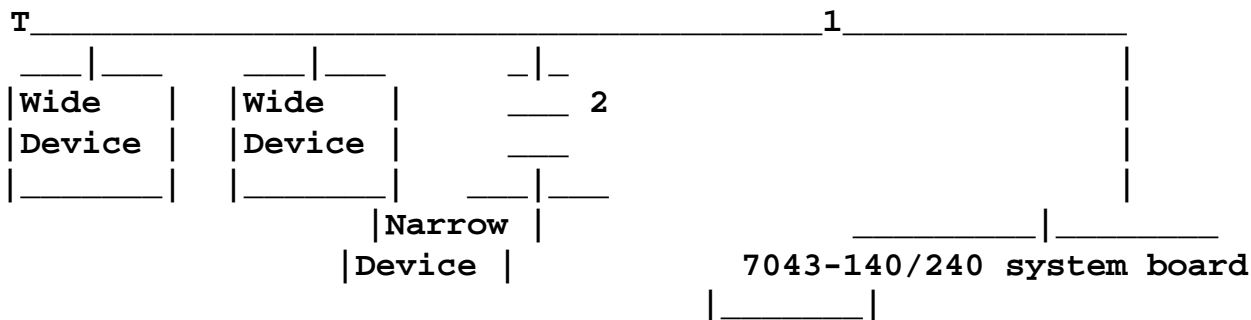
8-bit Narrow Bus.....	2111	70G9858	1.0m
2- Device-to-Device..... 8-bit Narrow Bus	2840	33F4607	0.7m
3- Terminator 50-pin lo-density narrow		52G4260	N/A

Cabling with wide devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 16-bit wide bus.....	2115	06H6036	1.0m
2- Device-to-Device Wide Bus 16-bit.....	2860/9139	52G9921	0.3m
	2884/9160	52G4291	0.6m
	2883/9150	52G4233	2.5m
	2885/9161	88G5749	4.5m
	2870/9146	88G5747	12.0m
	2869/9145	88G5748	14.0m
	2868/9144	88G5746	18.0m
3- Terminator 68-pin wide bus 16-bit....	part of cable F/C	92F0432 (52G9907)	N/A

Internal Cabling using the 68-pos internal connector



Cable Description	FC#	PN	Length
1- Internal SCSI Cable 16-bit Wide.....		to come	
| ULTRA SCSI Cable Assembly 3-drop	2445	93H6151	
| SCSI Cable Assembly Mod 140		73H0435	
| Mod 240		40H7572	
2- 68-pin to 50-pin interposer.....		to come	

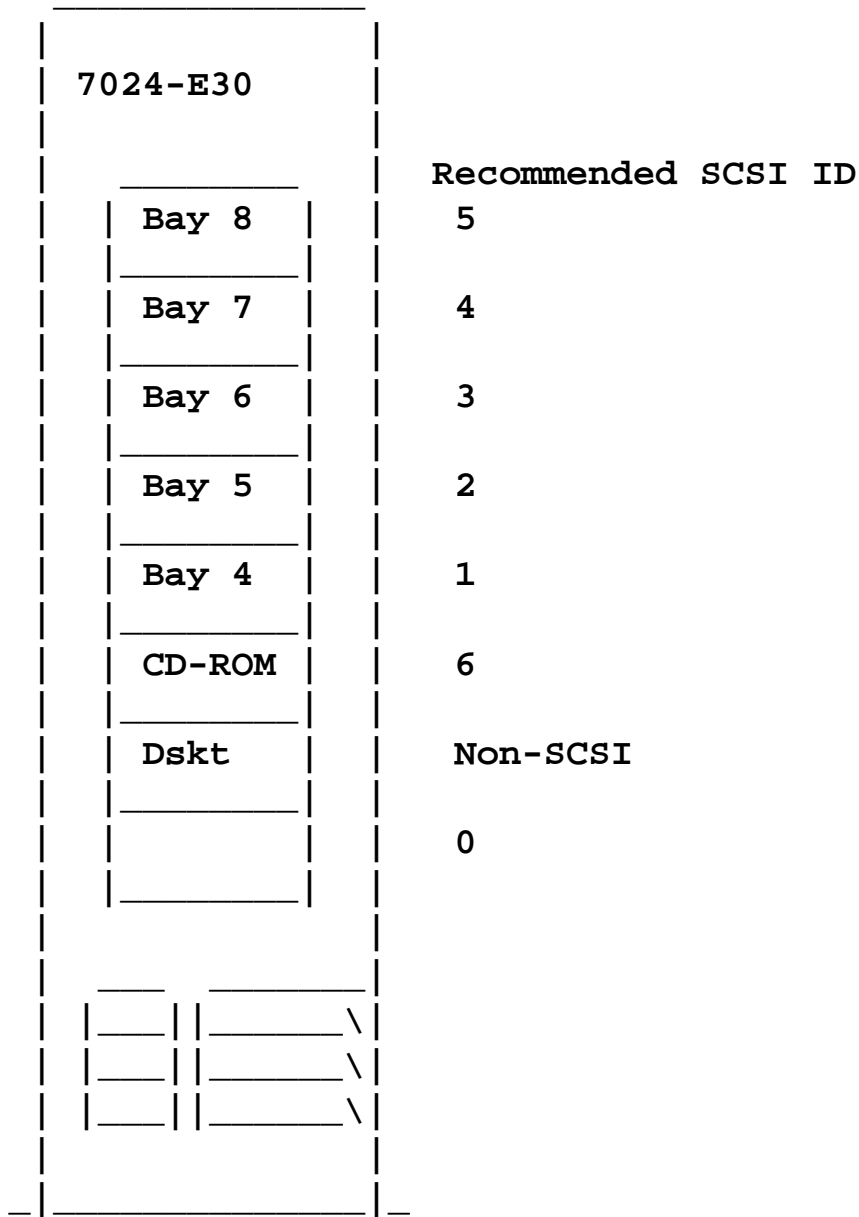
SCSI Bus Maximum Length (internal + external):
3 meters for F/W devices
6 meters if no F/W devices

Maximum External Devices: 4

		FC	P/N
INTERNAL CABLES	ULTRA SCSI Cable Assembly 3-drop	2445	93H6151
	SCSI Cable Assembly Mod 140		73H0435
	Mod 240		40H7572

(11/07/97)

Integrated SCSI-2 F/W 7024-E30



7025-F30 has 1 integrated SCSI-2 SE FW controllers

Adapters	Cables	Maximum Number of Devices

Feature Codes	Internal Features Codes	External Features Codes	Int.	EXTERNAL	
				Single Device	Multi Device
Integrated (Standard)	(Standard) 52G0170	No External Support	7	No External Support	No External Support
#6208/2408 Without external multi-devices	#2442	#2111 #2113 #2115 #2117	4	4	0 Cannot mix single and multi devices
#6208/#2408 With ext. multi-device ----- With integrated	No Internal Support ----- Standard	#2111 #2113 #2115 #2117 ----- No Ext. Support	0 ----- 3	0 Cannot mix single and multi devices ----- No External Support	1 ----- No External Support
#6209/2409	No Internal Support	#2112 #2114 #2116	0	25 metre cable maximum and 15 SCSI addresses maximumx	

CABLING:

#2111 Adapter-to-Dual-Connector-Device 8-bit.... 70G9858 1.0m
+ Terminator 52G4260

#2112 Adapter-to-Dual-Connector-Device 8-bit.... 70G9858 1.0m
+ Terminator 87G1356

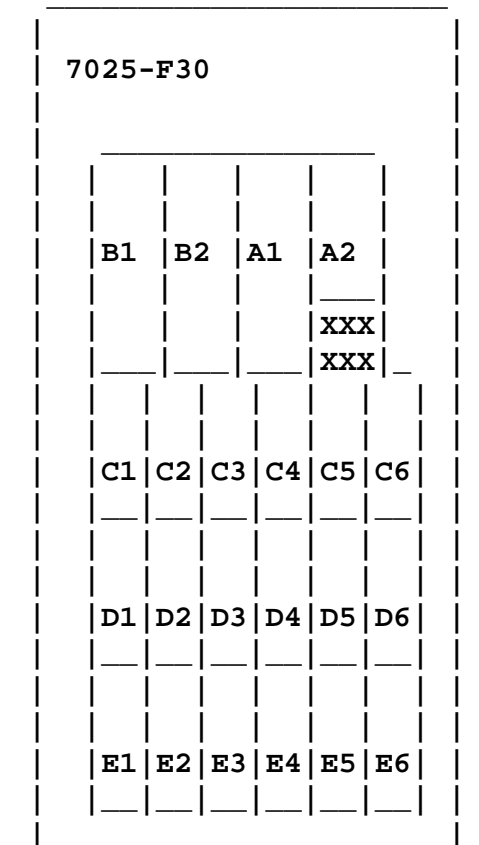
#2114 Y-Cable 16-bit..... 52G0173 0.94m
+ Terminator 61G8324

#2113 Adapter-to-Single-Connector-Device 8-bit.. 52G0174 1.5m

#2115 Adapter-to-Dual-Connector-Device 16-bit...	06H6036	1.0m
+ Terminator	92F0432	
#2116 Adapter-to-Dual-Connector-Device 16-bit...	06H6036	1.0m
+ Terminator	61G8324	
#2117 Y-Cable 16-bit.....	52G0173	0.94m
+ Terminator	92F0432	
#2442 Internal 4-drop for 6208/2408.....	52G0172	
+ Terminator	88G3977	

11/20/97

Integrated SCSI-2 F/W 7025-F30



Recommended values

A1 CD-ROM ID 4

A2 Diskette Drive

B1 Open SCSI Bay Non Hot-Pluggable ID 6

B2 Open SCSI Bay Non Hot-Pluggable ID 5

<- Bank C 1st 6-Pack
SCSI IDs 0-5 OR 8-13 (backplane jumpers)

<- Bank D 2nd 6-Pack
SCSI IDs 0-5 OR 8-13

<- Bank E 3rd 6-Pack
SCSI IDs 0-5 OR 8-13

7025-F30 has 1 integrated SCSI-2 SE FW controllers

STANDARD CONFIGURATION: Controls 6-Pack #1 and the removable media devices (for example, CD-ROM) with the first integrated SCSI-2 F/W controller.

FIRST 6-PACK: - Standard Hot Swap

- Can be controlled by:

1) 1st Integrated SCSI-2 F/W controller.

2) #2446 PCI SCSI-2 SE F/W #6208 - improved performance

SECOND 6-PACK: - #6421 Hot Swap

- Controlled by:

1) PCI SCSI-2 SE F/W 4-A [#6208](#) + Cable #2447 06H6876

a) SCSI adapter..... 93H7421

b) Backplane..... 71G6291

c) Power cable 2-Drop... 39H9994

d) SCSI Cable..... 06H6660

THIRD 6-PACK: - #6422 Hot Swap

- Controlled by:

1) PCI SCSI-2 SE F/W 4-A [#6208](#)

a) SCSI adapter..... 93H7421

b) Backplane..... 71G6291

c) Power cable 2-Drop... 39H9994

d) SCSI Cable..... 06H6660

Adapters	Cables	Maximum Number of Devices
----------	--------	---------------------------

Feature Codes	Internal Features Codes	External Features Codes	Int.	EXTERNAL	
				Single Device	Multi Device
Integrated (Standard)	(Standard) 52G0170	No External Support	3 - Media (1 is std) 6 - Disk (1 is std)	No External Support	No External Support
#6208/2408 Without external multi-devices	#2446 #6421 #6422	#2111 #2113 #2115 #2117	6 - Disk	4	0 Cannot mix single and multi devices
#6208/#2408 With ext. multi-device	No Internal Support	#2111 #2113 #2115 #2117	0	0 Cannot mix single and multi devices	1
#6209/2409	No Internal Support	#2112 #2114 #2116	0	25 metre cable maximum and 15 SCSI addresses maximumx	

CABLING:

```

#2111 Adapter-to-Dual-Connector-Device 8-bit.... 70G9858 1.0m
          + Terminator 52G4260

#2112 Adapter-to-Dual-Connector-Device 8-bit.... 70G9858 1.0m
          + Terminator 87G1356

#2114 Y-Cable 16-bit..... 52G0173 0.94m
          + Terminator 61G8324

#2113 Adapter-to-Single-Connector-Device 8-bit.. 52G0174 1.5m

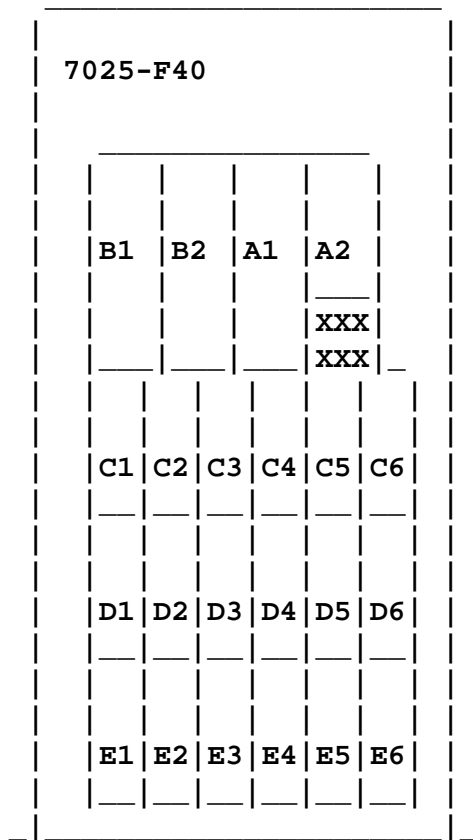
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#2115	Adapter-to-Dual-Connector-Device 16-bit...	06H6036	1.0m
	+ Terminator	92F0432	
#2116	Adapter-to-Dual-Connector-Device 16-bit...	06H6036	1.0m
	+ Terminator	61G8324	
#2117	Y-Cable 16-bit.....	52G0173	0.94m
	+ Terminator	92F0432	
#2442	Internal 4-drop for 6208/2408.....	52G0172	
	+ Terminator	88G3977	

01/29/99



Integrated SCSI-2 F/W 7025-F40



Recommended values

A1 CD-ROM ID 4

A2 Diskette Drive

B1 Open SCSI Bay Non Hot-Pluggable ID 6

B2 Open SCSI Bay Non Hot-Pluggable ID 5

<- Bank C 1st 6-Pack
SCSI IDs 0-5 OR 8-13 (backplane jumpers)

<- Bank D 2nd 6-Pack
SCSI IDs 0-5 OR 8-13

<- Bank E 3rd 6-Pack
SCSI IDs 0-5 OR 8-13

7025-F40 has 2 integrated SCSI-2 SE FW controllers

STANDARD CONFIGURATION: Controls 6-Pack #1 and the removable media devices (for example, CD-ROM) with the first integrated SCSI-2 F/W controller.

FIRST 6-PACK: - Standard Non-Hot Swap. For HOT SWAP, order #6520.

- Controlled by:

1) 1st Integrated SCSI-2 F/W controller.

2) PCI SSA 4-Port RAID 4-J [#6218](#)

SECOND 6-PACK: - Can be either: #6521 Hot Swap / #6535 Non Hot Swap

- Can be controlled by:

1) 2nd Integrated SCSI-2 F/W Controller

2) PCI SCSI-2 SE F/W 4-A [#6208](#) + Cable #2447 06H6876

3) PCI SCSI-2 F/W RAID 4-H [#2493](#)

4) PCI SSA 4-Port RAID 4-J [#6218](#)

- #6521) 2nd 6-Pack SCSI HOT SWAP Bays Kit 06H3237 220W Power supply, 39H9994 Power Cable 2-drop, 40H0114 Backplane, 40H3128 Cable

1-drop.

- #6535) 2nd 6-Pack SCSI Non HOT SWAP Bays Kit 06H3237 220W Power supply
- 39H9994 Power Cable 2-drop, 40H1432 Backplane, 40H3128 Cable 1-drop

THIRD 6-PACK: - Can be either: #6522 Hot Swap / #6536 Non Hot Swap

- Can be controlled by:
 - 1) PCI SCSI-2 SE F/W 4-A #6208 + Cable 06H6876
 - 2) PCI SCSI-2 F/W RAID 4-H #2493
 - 3) PCI SSA 4-Port RAID 4-J #6218

SCSI Adapters	Cables	Maximum Number of Devices
---------------	--------	---------------------------

Feature Codes	Internal Features Codes	External Features Codes	Int.	EXTERNAL	
				Single Device	Multi Device
Integrated SCSI #1 (Standard)	(Standard)	No External Support	3 - Media (1 is standard) 6 - Disk (1 is standard)	No External Support	No External Support
Integrated SCSI #2 (Standard) without External Multi-Devices	#2444	#2111 #2113 #2115 #2117	6 - Disk	2	Not Applicable
Integrated SCSI #2 (Standard) With External Multi-Devices	Not Applicable	#2111 #2113 #2115 #2117	0 Cannot mix single and multi-device	0 Cannot mix single and multi-device	1

#6208 Without external multi- devices	#2447 #6522 #6536	#2111 #2113 #2115 #2117	6 - Disk	4	0 | Cannot mix | single and | multi devices
#6208 With external multi- device	No Internal Support	#2111 #2113 #2115 #2117	0	0 Cannot mix single and multi devices	1
#6209	No Internal Support	#2112 #2114 #2116	0	25 metre cable maximum and 15 SCSI addresses maximumx	

SCSI OPTIONS

CABLING:

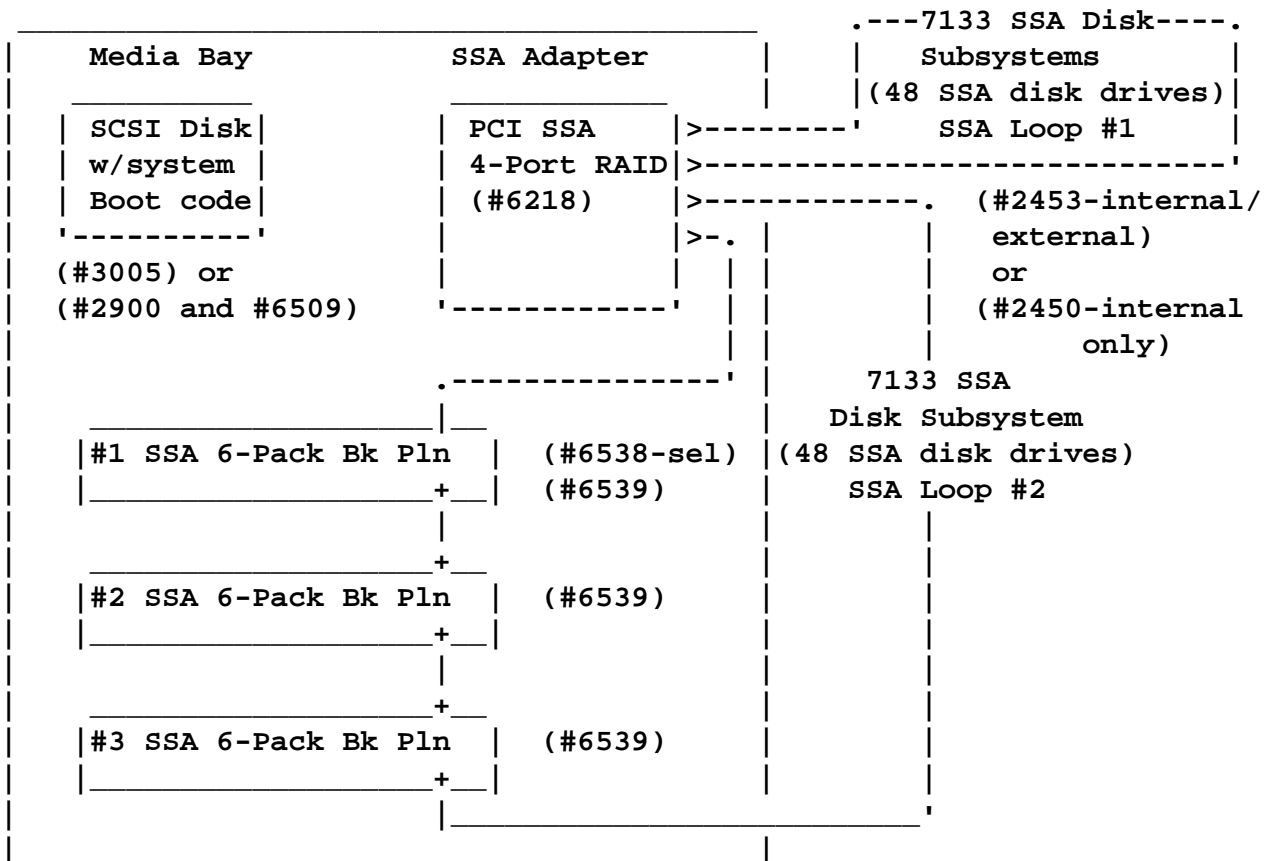
- #2111 Adapter-to-Dual-Connector-Device 8-bit.... 70G9858 + Terminator 52G4260 1.0m
- #2112 Adapter-to-Dual-Connector-Device 8-bit.... 70G9858 + Terminator 87G1356 1.0m
- #2113 Adapter-to-Single-Connector-Device 8-bit.. 52G0174 1.5m
- #2114 Y-Cable 16-bit..... 52G0173 + Terminator 61G8324 0.94m
- #2115 Adapter-to-Dual-Connector-Device 16-bit... 06H6036 + Terminator 92F0432 1.0m
- #2116 Adapter-to-Dual-Connector-Device 16-bit... 06H6036 + Terminator 61G8324 1.0m
- #2117 Y-Cable 16-bit..... 52G0173 + Terminator 92F0432 0.94m
- #2444 40H3128 1-drop provides the necessary cable to control 6-pack #2 from
the 2nd integrated SCSI-2 controller. + Terminator 88G3977
- #2447 16-bit PCI SCSI SE Adapter to DASD 6-Packs Cable 06H6876 (06H6660)
- #6521 2nd 6-Pack SCSI HOT SWAP Bays Kit 06H3237 220W Power supply,
39H9994 Power Cable 2-drop, 40H0114 Backplane, 40H3128 Cable 1-drop.
- #6522 3rd 6-Pack SCSI Hot Swap Bays Kit 06H6876 Cable 16-bit,
40H0114 Backplane Hot Swap, 73H3562 PCI SCSI2.
- #6535 2nd 6-Pack SCSI Non HOT SWAP Bays Kit 06H3237 220W Power supply
39H9994 Power Cable 2-drop, 40H1432 Backplane, 40H3128 Cable 1-drop
- #6536 3rd 6-Pack SCSI Non HOT SWAP Bays Kit 06H6876 Cable 16-bit

39H9994 Power Cable 2-drop, 40H0132 Backplane, 40H4939 Lock Bar,
73H3562 PCI SCSI2.

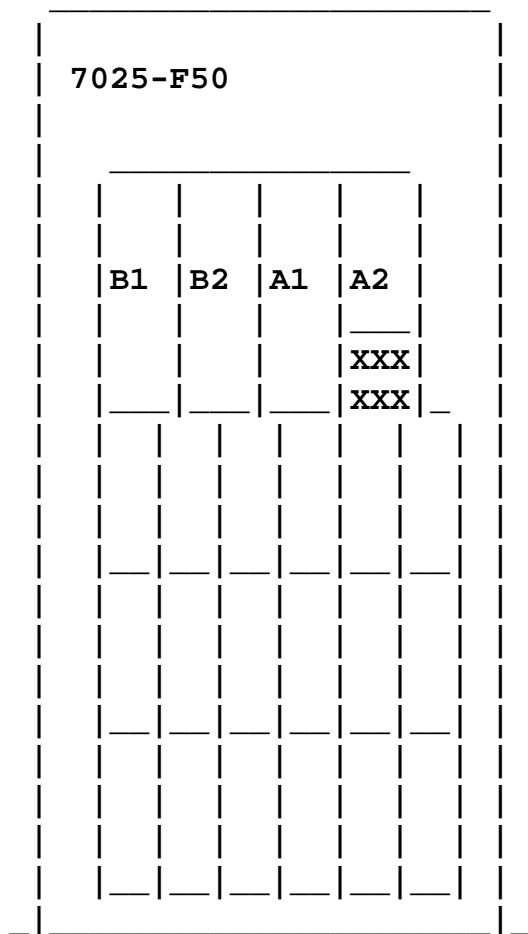
SSA OPTIONS

- #6539 6-Pack SSA Kit - SSA Backplane 93H6321, Chain Cable 93H4341,
Power Cable 2-drop 39H9994
- #6549 Power Supply. Provides support for 2nd and 3rd 6-Pack
06H3237, screw 8185165.
- #2450 Cable asm SSA Adapter to backplane 93H6308
- #2451 Cable asm daisy chain signal backplane-to-backplane 93H9822
- #2453 Cable asm SSA ADapter to external devices (7133).

RS/6000 System



Integrated SCSI-2 F/W 7025-F50



Recommended values

A1 CD-ROM ID 4

A2 Diskette Drive

B1 Open SCSI Bay Non Hot-Pluggable ID 6

B2 Open SCSI Bay Non Hot-Pluggable ID 5

Bank C 1st 6-Pack

Bays 1 - 6

SCSI IDs 8 - 13

Bank D 2nd 6-Pack

Bays 1 - 6

SCSI IDs 8 - 13

Bank E 3rd 6-Pack

Bays 1 - 6

SCSI IDs 8 - 13

7025-F50 has 2 integrated SCSI FW controllers

F50 disk subsystem has 2 integrated SCSI-2 Fast/Wide controllers.

SCSI FW Single-Ended

The standard configuration controls 6-pack #1 and the removable media devices (for example, CD-ROM) with the first integrated SCSI-2 F/W controller.

#2443 : Option to disconnect the first SCSI 6-pack from the media devices. It provides cable and terminator. The terminator terminates the base cable from the media devices when disconnected from the first SCSI 6-pack. The cable provides a connection from the second integrated SCSI controller to the first 6-pack.

#6519 : Additional SCSI 6-packs can be added in Bank D and E. Each #6519 added must be driven by a PCI SCSI-2 SE FW Adapter #6208 4-A FRU 11H8085 and

connected via cable #2447 FRU 06H6660. This option also requires to add a backplane in Bank D or E).

#2444 provides the necessary cable to control 6-pack #2 from the 2nd integrated SCSI-2 controller and is implementable only when #2443 is not selected.

#2443 and #2444 are mutually exclusive.

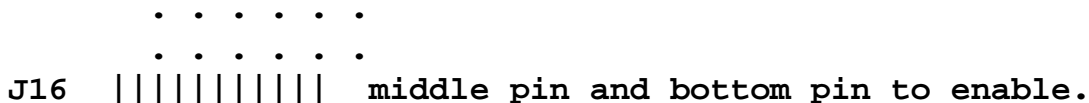
ULTRA-SCSI

ULTRA-SCSI is not supported by the 2 integrated SCSI Fast/Wide controllers.

#2446 : Must be ordered to disconnect the first SCSI 6-pack from the media devices. It provides for a cable and a terminator The terminator terminates the cable from the media devices when disconnected from the first SCSI 6-pack. The cable provides a connection from the first SCSI 6-pack driven by a PCI Ultra-SCSI SE Adapter #6206 4-K 93H3809.

#6519 : Additional SCSI 6-packs can be added in Bank D and E. Each #6519 added must be driven by a PCI ULTRA-SCSI SE Adapter #6206 4-K FRU 93H3809 and connected via cable #2447 FRU 06H6660. This option also add a backplane in Bank D or E).

Jumpers on J16 enable external SCSI connector



7025 4-drop 16-bit.... 73H0725
SCSI adapter to backplane(up to 3).... 06H6660

Cabling FRU P/N:

- #2111 PCI SCSI Adapter to 2-Port, 8-bit SE External Device Cable 70G9858
- #9148 Same as #2111 + terminator 52G4260
- #2112 PCI SCSI Adapter to 2-Port, 8-bit Differential External 70G9858
- #2113 PCI SCSI Adapter to Single Port 8-bit SE External Device 52G0174
- #2114 PCI SCSI Adapter 16-bit Differential External Y-Cable 21H4029
- #2115 PCI SCSI Adapter to 2-Port, 16-bit SE External Device Cable 70G9857
- #2116 PCI SCSI Adapter to 2-Port, 16-bit Differential External 70G9857

#2117 PCI SCSI Adapter 16-bit SE External Y Cable 52G0173 0.94m
 #2443 Int SCSI to DASD 6-Pack 16-bit Cable 40H3128 and Terminator 88G3977
 #2444 Int SCSI to DASD 6-Pack 16-bit Cable 40H3128 7-drop
 #2447 16-bit PCI SCSI SE Adapter to DASD 6-Packs Cable 06H6660
 #2448 Terminator 16-bit 88G3977

SCSI MATRIX

Adapters	Cables		Maximum Number of Devices		
	Internal Feature Numbers	External Feature Numbers	Internal	External	
				Single Device	Multi-Device
Integrated (standard) # 1	(standard)	No External Support	3 - Media (1 is standard) 6 - Disk (1 is standard)	No External Support	No External Support
Integrated (standard) #2 without External Multi- Devices	2443 or 2444	2111 2113 2115 2117	6 - Disk	2	Not Applicable
Integrated (standard) #2 with External Multi- Devices	Not Applicable	2111 2113 2115 2117	0 Cannot mix single and multi- device	0 Cannot mix single and multi-device	1
6208 Without external multi- devices	2447 6522 6536	2111 2113 2115 2117	6 - Disk	4	0 Cannot mix single and multi-devices
6208 With external multi-	No Internal Support	2111 2113 2115	0	0 Cannot mix single and multi-device	1

device		2117		
6209	No Internal Support	2112 2114 2116	0	25-meter cable maximum and 15 SCSI addresses maximum

Multidevice indicates an external enclosure that may contain more than one SCSI device.

Last update: 13/10/98

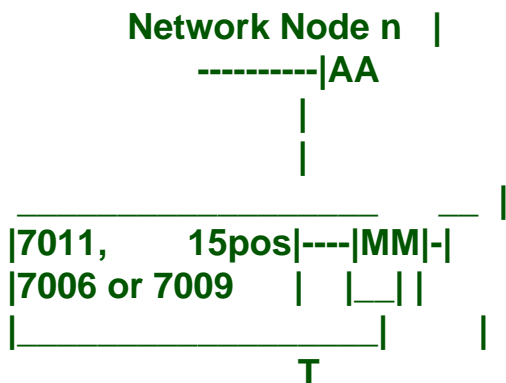
Integrated Ethernet

7011 / 7006 / 7008

Models with Integrated Ethernet adapter features only an Ethernet standard thick connector. Transceivers must be ordered for use with either thin (10Base2) or Twisted-Pair (10BaseT).

Attachment 10Base2/Coax

T



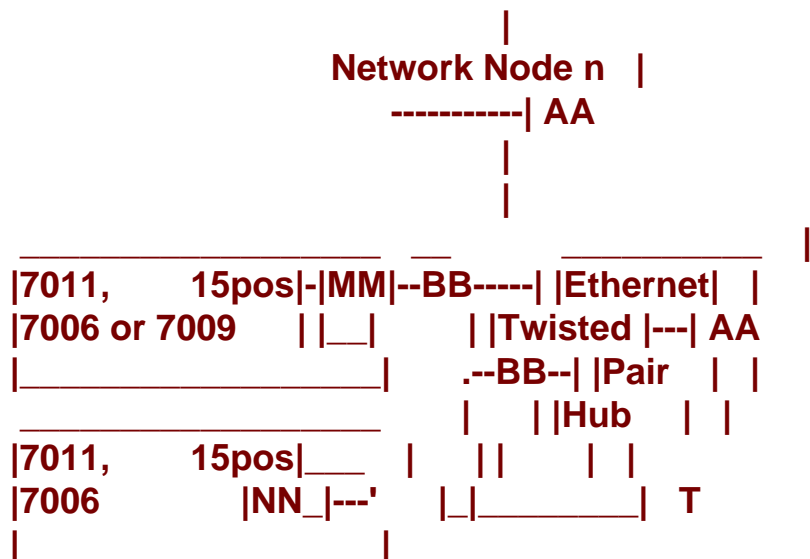
AA- Coaxial T-Connector or L-Shaped

MM- Ethernet 10Base2 Transceiver..... 02G7435 #4223 3ft

T- Terminator 50ohm, Customer-supplied

Attachment 10BaseT/Twisted-Pair

T



BB Customer-supplied RJ45 Unshielded twisted-pair cable

NN Twisted-pair Cable Adapter: P/N

7011-250 Only..... 51G8479

7006,7011-250..... 39H8148

MM All models including 7011-250 and 7006

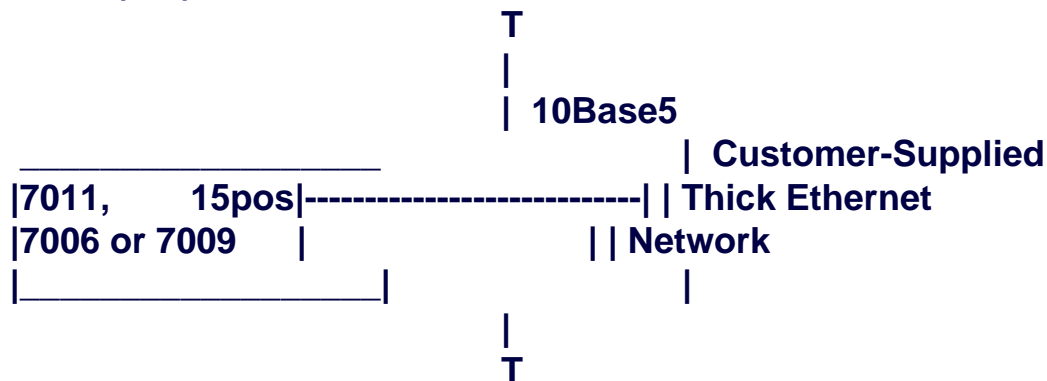
Transceiver 10BaseT 02G7429 #4224 3ft

AA Coaxial T-Connector or L-Shaped NO IBM P/N

T- Terminator 50ohm, Customer-supplied

Attachment 10Base5/Thick

Thick (Dix) Connection to LAN



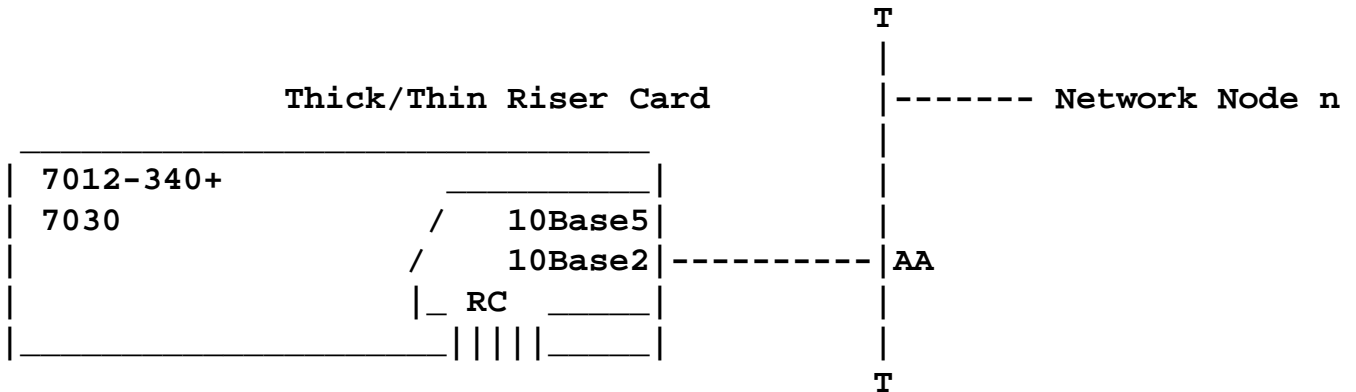
T- Terminator 50ohm, Customer-supplied

Integrated Ethernet

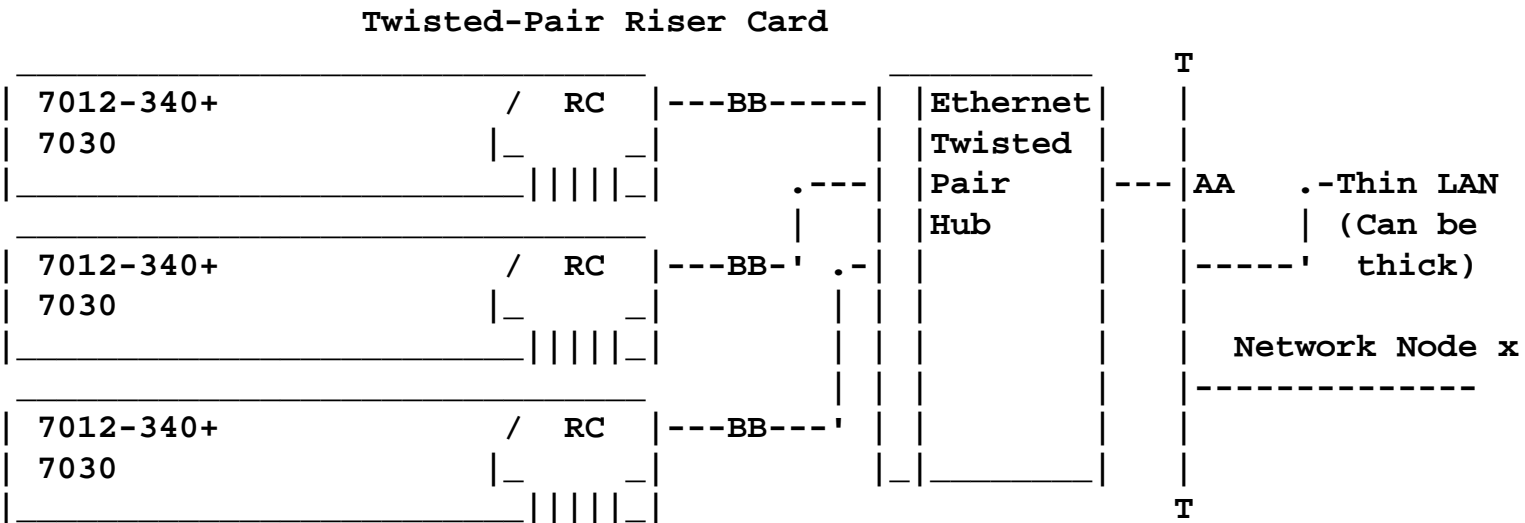
7012-340 and +

7030

The integrated Ethernet adapter in the 7012-340 and + features either thick and thin #4221 or twisted-pair #4222 riser cards.



- RC- Riser Card Thick/Thin #4221..... 43G0382
- AA- Coaxial T-Connector or L-Shaped NO IBM P/N
- T- 50ohm terminator



- RC Riser Card Twisted-Pair #4222... 00G1276
- AA T or L-Connector Customer-supplied
- BB Customer-supplied RJ45 Unshielded twisted-pair cable
- T 50ohm terminator

SSA Network Storage Interface SBus Adapter

#4003

More info to come.

You may look at this web site for more info:

[Web Site http://www.compass-corp.com](http://www.compass-corp.com) Canadian Announcement Letter a97-0810
971028 IBM SSA to Sun SBus Interface Controller Card

06/05/98

GXT110P POWER Video Accelerator Adapter 2D No Type #2839 Models E20, E30 and F30

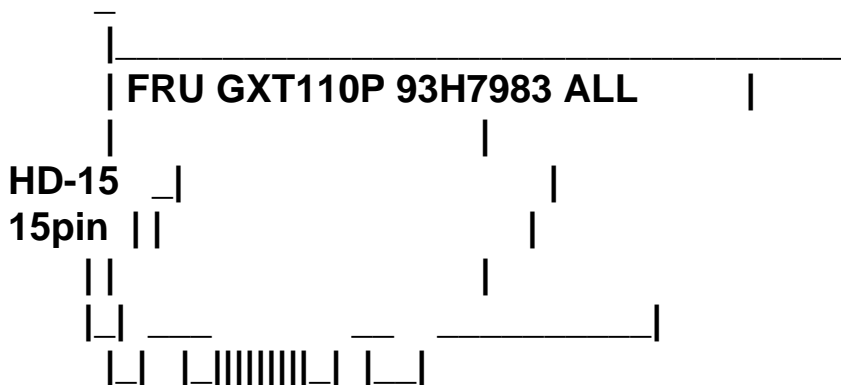
Click on the next line to get the device driver:

<ftp://aix.software.ibm.com/aix/efixes/ix68882>

Supported: AIX 4.1.5 or 4.2.1

Not Supported: AIX 3.2.5 or 4.2.0

- [See Cabling](#)



NOTE: Previous FRUs 93H5849 and 40H5838 do not work in 7025-F50

KNOWN PROBLEM: F50 CANNOT BOOT FROM CDROM AIX 4.2 APAR IX68882

Cabling

Displays

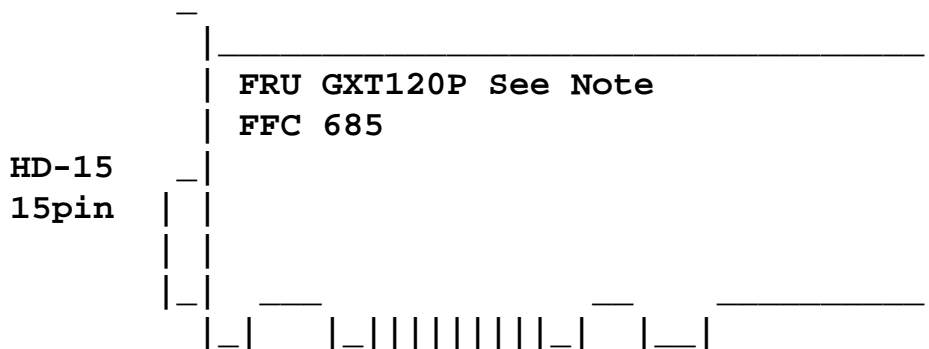
	P/N	FC
P50		
P70	96G2156	4238
P200	96G2156	4238

P201	96G1712	4237
6091-19i	39H8683	4239
POWERdisplay 17	39H8683	4239
POWERdisplay 20	39H8683	4239
9516-A03	39H8683	4239

Updated Nov 14 2000 by Bruno Croft

GXT120P 2D Video Accelerator Type 1-P #2838 SAGEBRUSH

- AIX 4.2 4.1 Driver Diskette <ftp://aix.software.ibm.com/aix/efixes/gxt120p>
- Filesets: [devices.pci.2b101a05.*](#)
- [Cabling](#)



NOTE: 93H2534 This card does not work in 7043-150/260.
 This card works in 7015-S70, 7017-S70, 7025-F40,
 7025-F50, 7026-H10/H50,
 7043-140/240

08L0895 This card is to be used in 7043-150/260 and above system also.

G52 COLOUR MONITOR SUPPORT MATRIX

System	AIX 4.2.1 AIX 4.3 GXT120P Adapter
-----	-----
7013-S70	Yes
7015-S70	Yes
7017-S70	Yes
7024-E30	No
7025-F40	Yes
7025-F50	Yes
7026-H10	Yes
7043-140	Yes

7043-240

Yes

Not supported in 7043-150/260. See RETAIN tip H164452

03/31/99

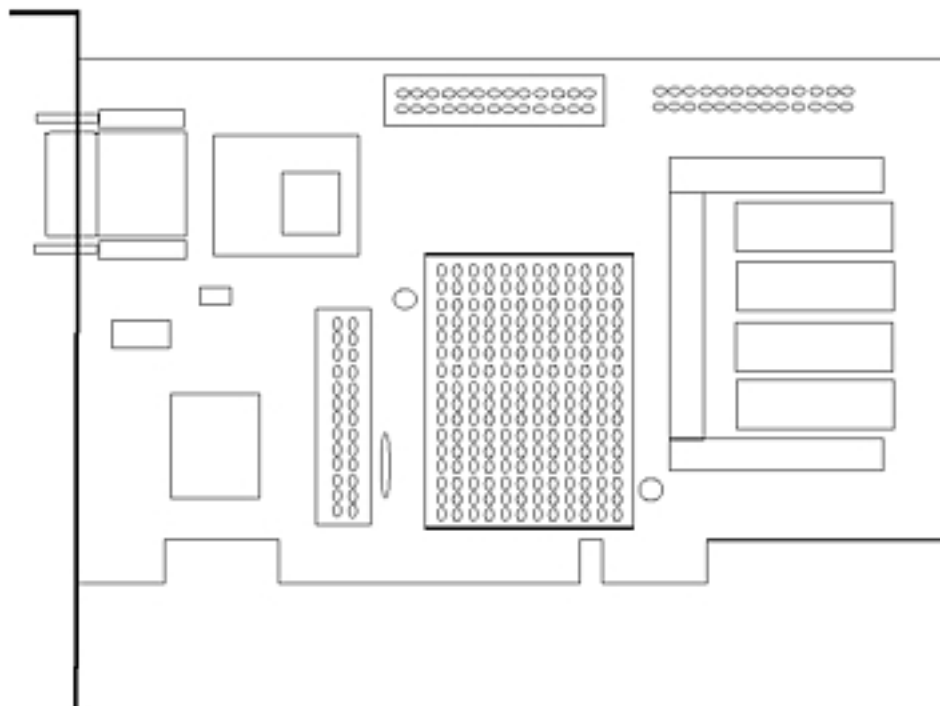
GXT130P Graphics Accelerator 2D 1-T #2830 FFC 655

Models 7043-140/150/260

7025-F40/F50

Filesets: [devices.pci.2b102005.*](#)

- [See Cabling](#)

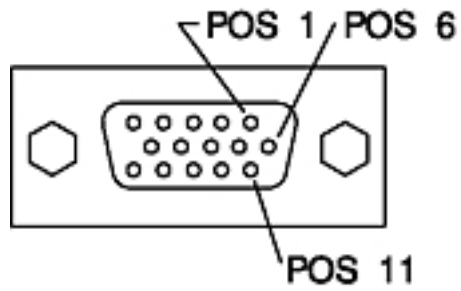


Item	Description
FRU number.....	11K0313, 94H1236
Bus architecture.....	PCI
Bus width.....	32-bit
Interrupt level.....	Int A
Maximum number.....	4
Number of colors supported	8-bit
Screen resolutions.....	640x480 at 60 - 85 Hz vertical refresh (ISO 9241) 800x600 at 60 - 85 Hz vertical refresh 1024x768 at 60 - 85 Hz vertical refresh 1280x1024 at 60 - 85 Hz vertical refresh 1600x1200 at 75 - 85 Hz vertical refresh

Display power management Supports VESA and DPMS

Connector..... 15-pin, D-shell connector

Common Resource Name..... mg20



Updated: Nov 13 2001 by Bruno Croft

GXT135P Graphics PCI Adapter 1-X #2848 - #2949

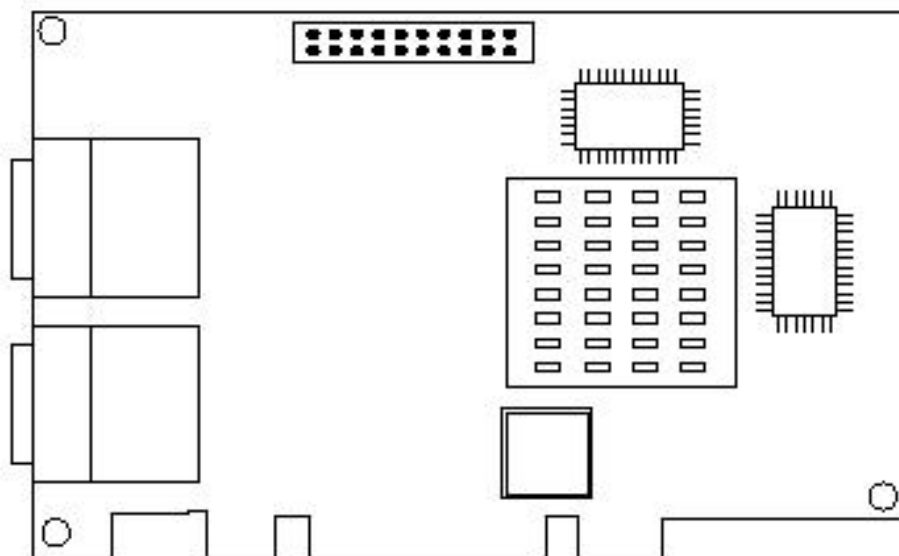
Models 610-6E1/6C1 660-6M1 690 7040-681

Filesets: [devices.pci.14103302.*](#)

[Announcement Letter of GXT135P in 6M1](#)

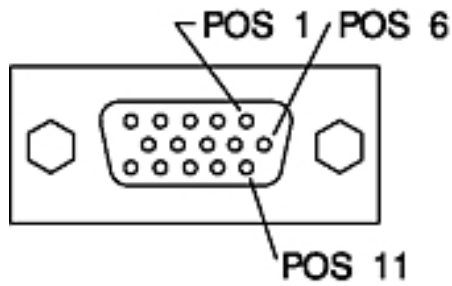
[Adapter Installation Guide SA23-1256](#)

[See Cabling](#)



Item	Description
FRU number.....	00P5758, 09P5074, 00P2530
Not hot pluggable	
Bus architecture.....	PCI
Bus width.....	32-bit
Number of colors supported	8-bit or 24-bit
Screen resolutions.....	640x480 at 60 Hz vertical refresh 1024x768 at 60 - 85 Hz vertical refresh 1280x1024 at 60 - 85 Hz vertical refresh 1600x1200 at 75 - 85 Hz vertical refresh 2048x1536 at 60 Hz vertical refresh

Display power management Supports VESA and DPMS
Connector..... 15-pin, D-shell connector



The GXT135P supports two monitors (identical image) at the following screen resolutions:

- 640 x 400 @ 60 Hz vertical refresh**
- 1024 x 768 @ 60 - 85 Hz vertical refresh**
- 1280 x 1024 @ 60 - 85 Hz vertical refresh**

The GXT135P supports a single monitor at the following screen resolutions:

- 640 x 400 @ 60 Hz vertical refresh**
- 1024 x 768 @ 60 - 85 Hz vertical refresh**
- 1280 x 1024 @ 60 - 85 Hz vertical refresh**
- 1600 x 1200 @ 60 - 85 Hz vertical refresh**
- 2048 x 1536 @ 60 - 75 Hz vertical refresh**

Created: Oct 31 2001 by Bruno croft

Update: August 2003 BJ Croft

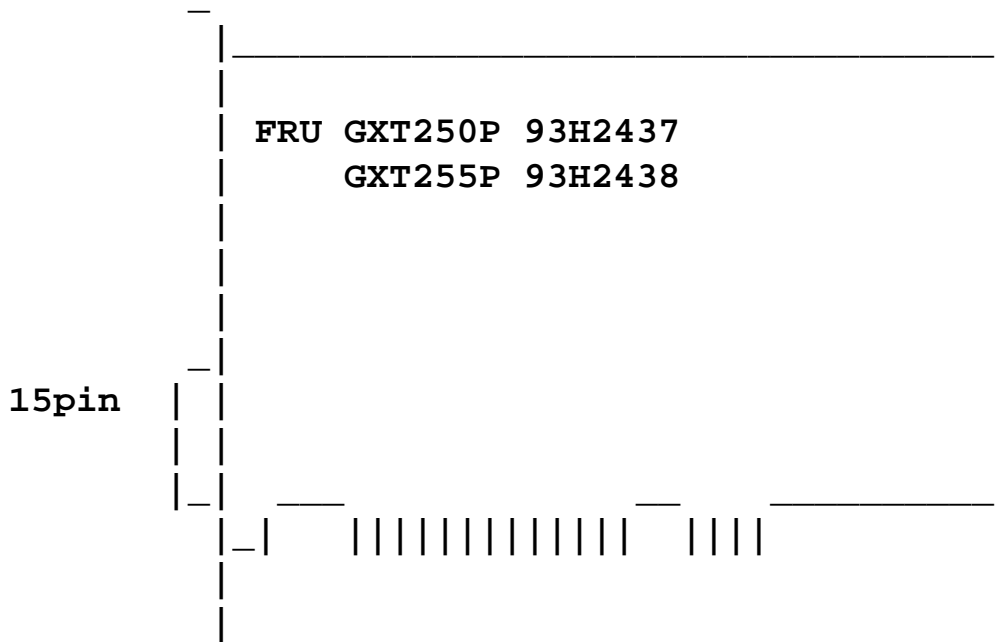
POWER GXT250P PCI Graphics Adapters #2851 Skyblue

&

POWER GXT255P PCI Graphics Adapters #2852 Skyblue

Requirement software 4.1.5

- [See Cabling](#)



Supported on:

GXT250P 7043-140/240, 7025-F40, 7024-E20/E30/F30
 GXT255P 7043-140/240, 7025-F40,

Cabling

Displays	GXT250P/GXT255P
-----	-----
P50	Display
P70	96G2156
P200	96G2156

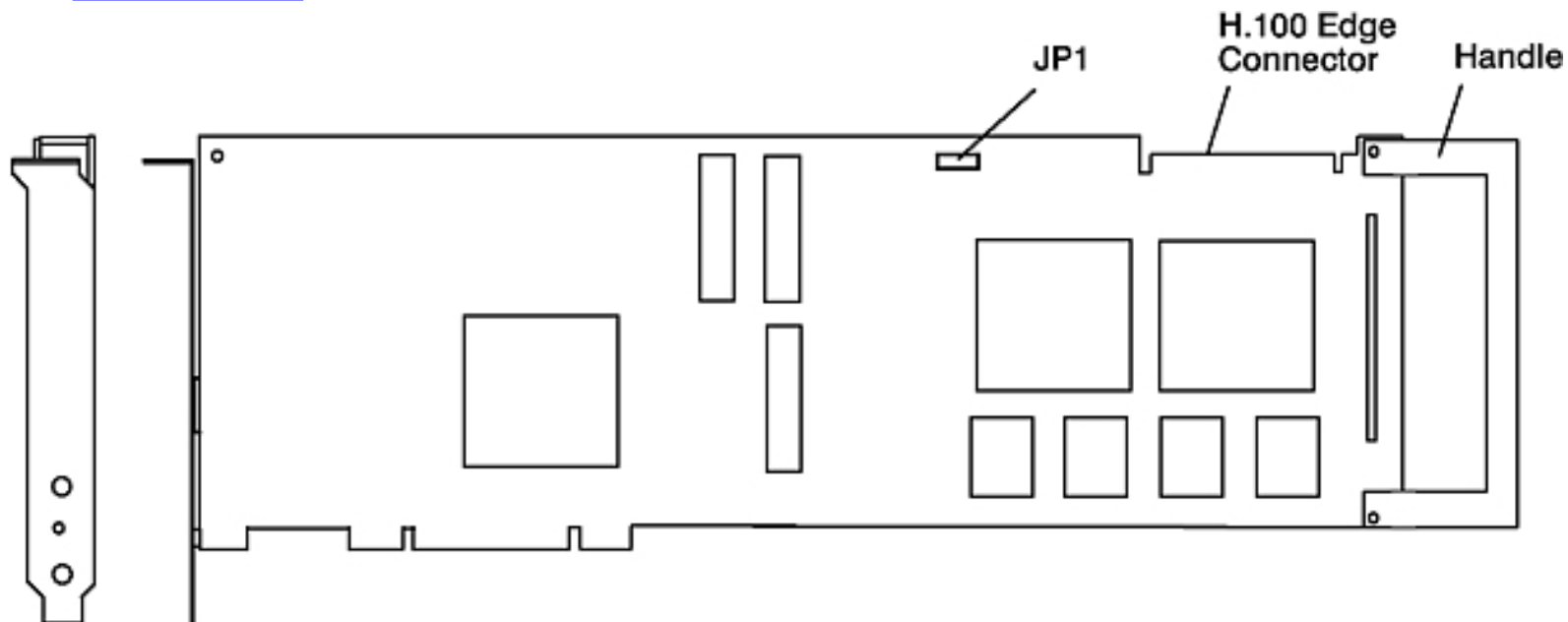
P201	96G1712
6091-16/19i,	39H8683
5081-16	
1091-051	09G3588
POWERdisplay 17	39H8683
POWERdisplay 20	39H8683
9516-A03	39H8683
7091-7S1	11H4003

Updated: Dec 12 2000 by Bruno Croft

GXT300P 2D Graphics Adapter 1-U #2841 Mirage/Skyblue

Filesets: [devices.pci.14107d01.*](#)

- [See Cabling](#)



- [More info from Adapters Devices & Cable Manual](#)

FRU Adapter..... 03N4169

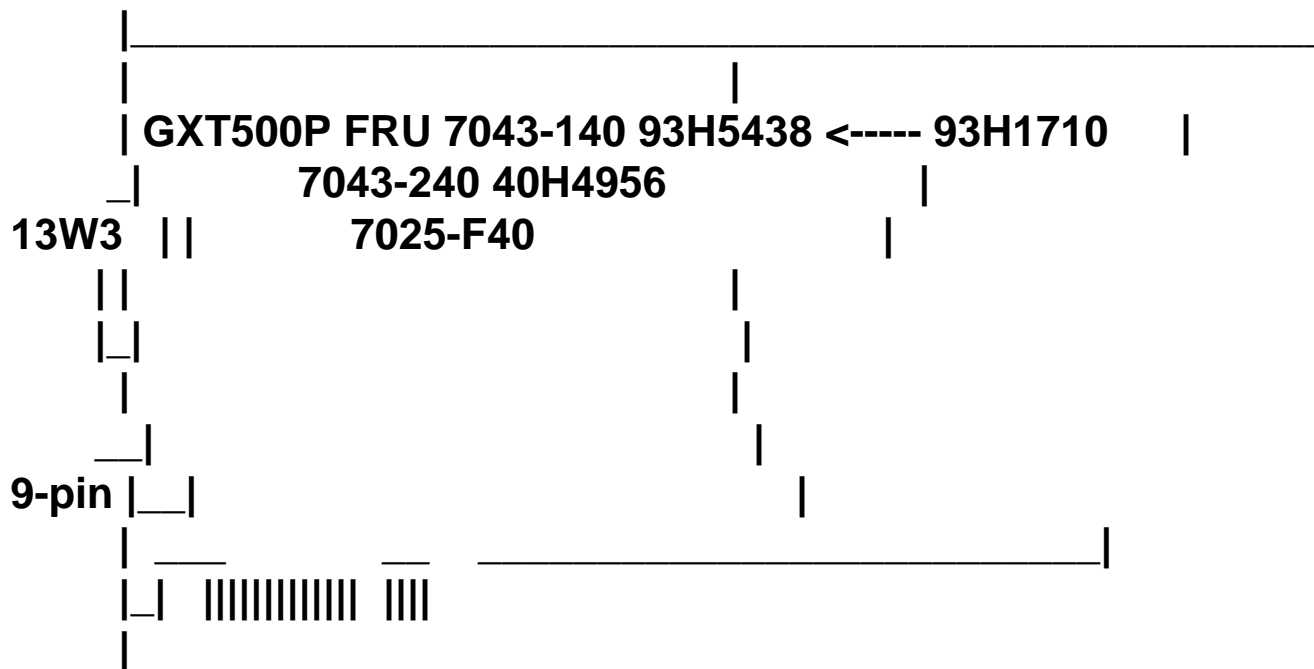
Fansink..... 41L5793

Updated: Dec 12 2000 by Bruno Croft

GXT500P PCI Graphics Adapters #2854

Requirement software 4.1.5

- [See Cabling](#)



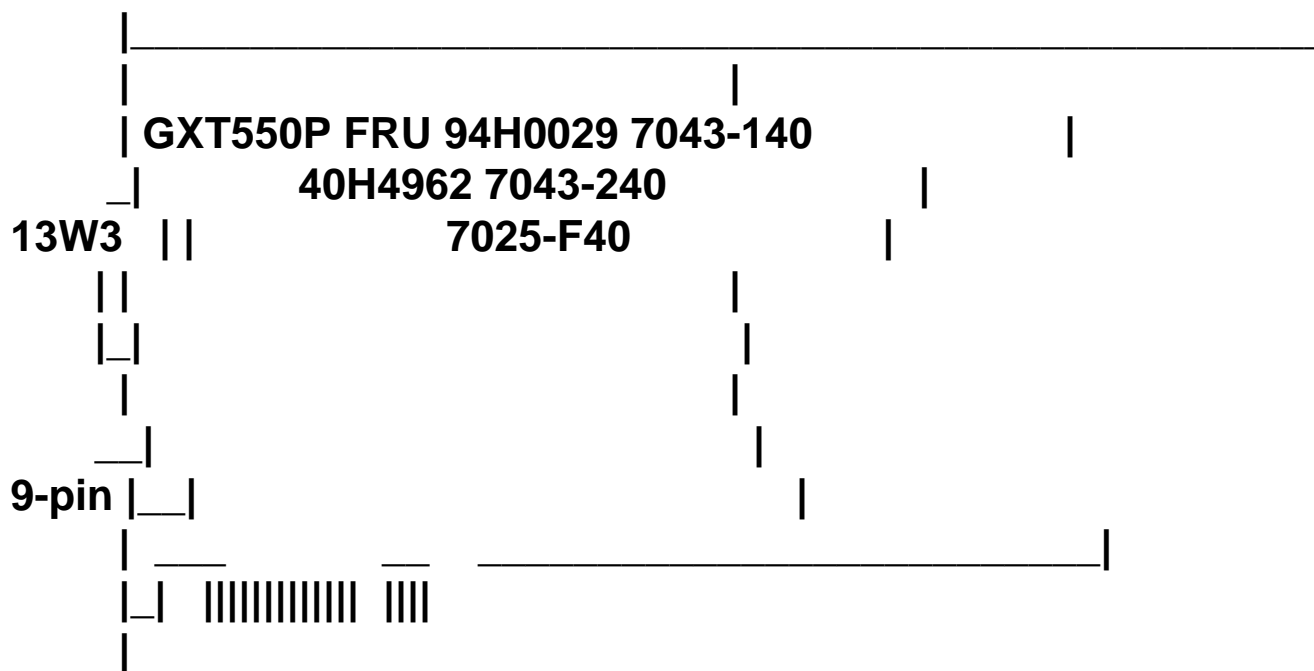
Video Cables
Displays 13W3/DDC

P50	52G3282
P70	96G2157
P200	96G2157
P201	60H7742
6091-19i	09G3541
POWERdisplay 17	09G3541
POWERdisplay 20	09G3541
9516-A03	09G3539

GXT550P PCI Graphics Adapters #2855

Requirement software 4.1.5

- [See Cabling](#)



Displays	Video Cables 13W3/DDC
----------	--------------------------

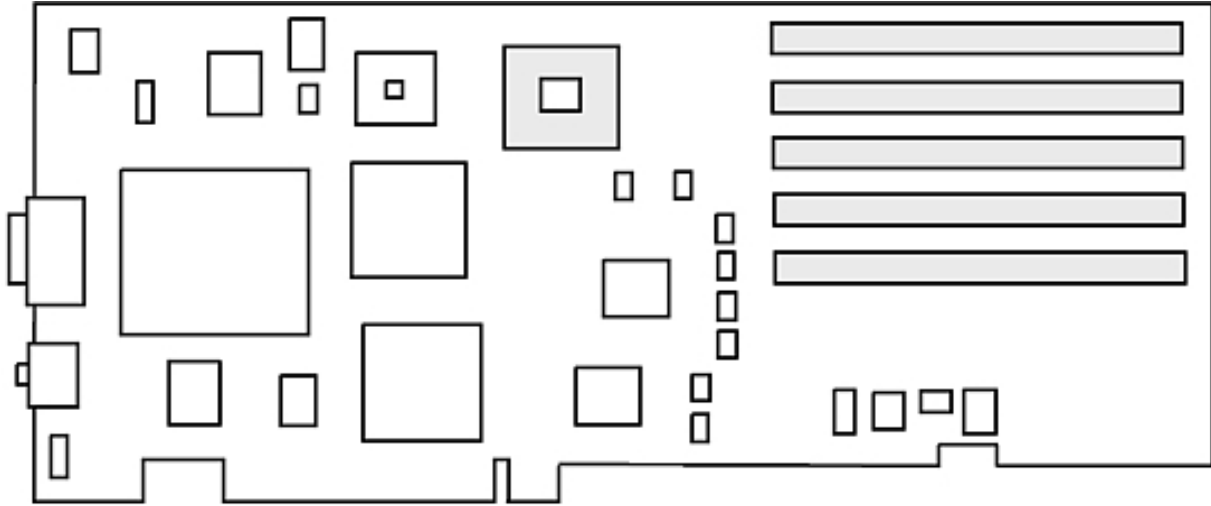
P50	52G3282
P70	96G2157
P200	96G2157
P201	60H7742
6091-19i	09G3541
POWERdisplay 17	09G3541
POWERdisplay 20	09G3541
9516-A03	09G3539

Updated: Nov 16 2000 by Bruno Croft

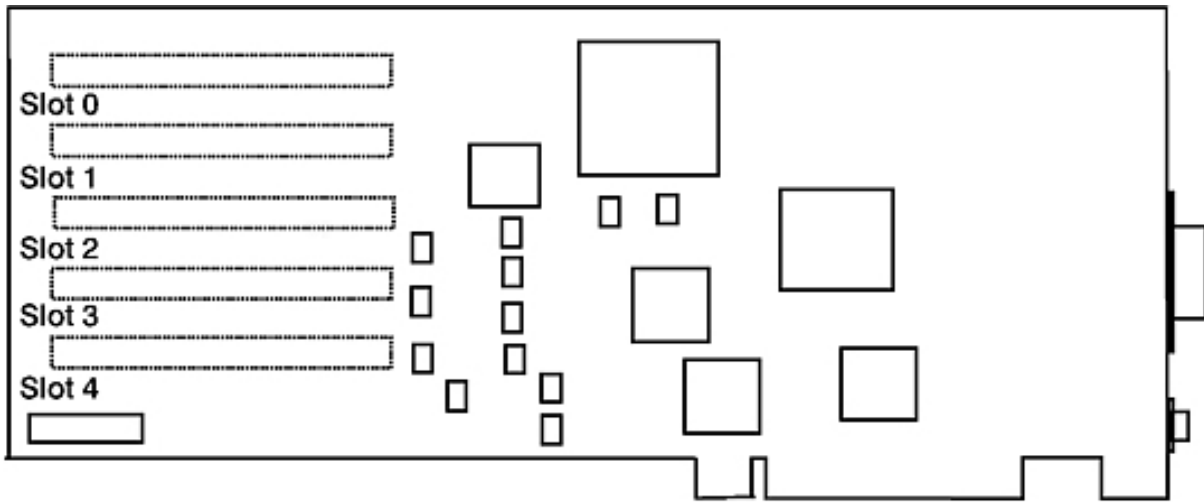
POWER GXT800P PCI Graphics Adapters 1-K #2853 with base memory and 1-L #2859 with Texture Memory

- [See Cabling](#) - Interesting RETAIN tip HSF H16853 H057711

Top



Bottom



Side - DIMM stand about 2" above the card.



7025-F40 & 7043-140/240 Without Texture Feature

FRU

VPD

ASM

DIMM FRU

@*	07L7113	07L7112	07L7111	93H6055	(Current)
@*	93H5440	93H6100	93H2789	93H6055	|
*	93H7313	93H7314	93H7312	93H4654	|
@	93H7309	93H7310	93H7308	93H4654	|
*	93H4668	93H4671	93H4667	93H4654	|
@	93H4677	93H4680	93H4676	93H4654	|
*	93H2028	93H3324	93H3320	39H8702	|
@	39H8700	93H3311	93H3313	39H8702	(Oldest)

@=7025-F40 & 7043-240 *=7043-140

7025-F40 & 7043-140/240 With Texture Feature

FRU	VPD	ASM	DIMM	FRU
-----	-----	-----	------	-----

@*	07L7113	07L7112	07L7111	93H6057	(Current)
@*	93H5440	93H6100	93H2789	93H6057	|
*	93H7313	93H7314	93H7312	93H4659	|
@	93H7309	93H7310	93H7308	93H4659	|
*	93H4668	93H4671	93H4667	93H4659	|
@	93H4677	93H4680	93H4676	93H4659	|
*	93H2028	93H3324	93H3320	39H8706	|
@	39H8700	93H3311	93H3313	39H8706	(Oldest)

Cabling

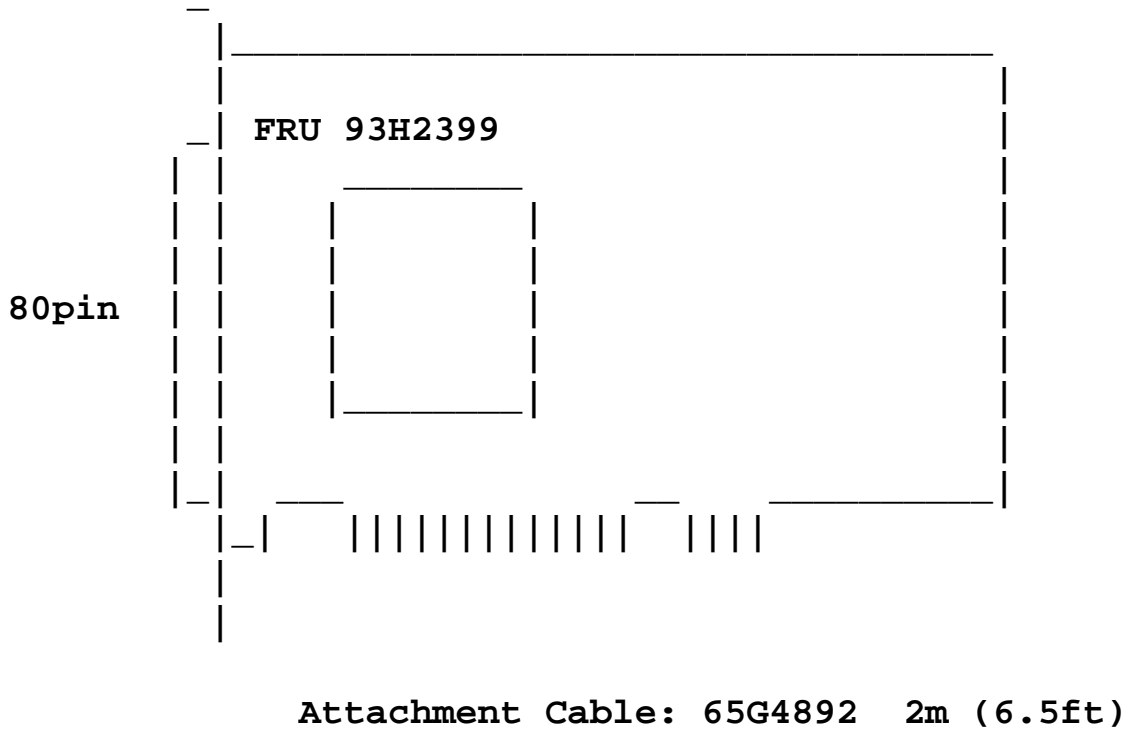
Displays	GXT800P
-----	-----
P50	Display
P70	96G2156
P200	96G2156
P201	96G1712
6091-19i	39H8682
POWERdisplay 17	39H8682
POWERdisplay 20	39H8682
9516-A03	58F2901

Last Updated: August 2003 by Bruno Croft

POWER GXT1000 Graphics Accelerator Attachment Adapter #2856 Type 1-H

AIX fileset: `devices.pci.14102000.xxx`

- [See Cabling](#)



Updated: Dec 12 2000 by Bruno Croft

POWER GXT2000P Graphics Adapter PCI 1-S #2823 Mirage FFC 657

Click on the blue fileset to see current level from IBM Boulder CO

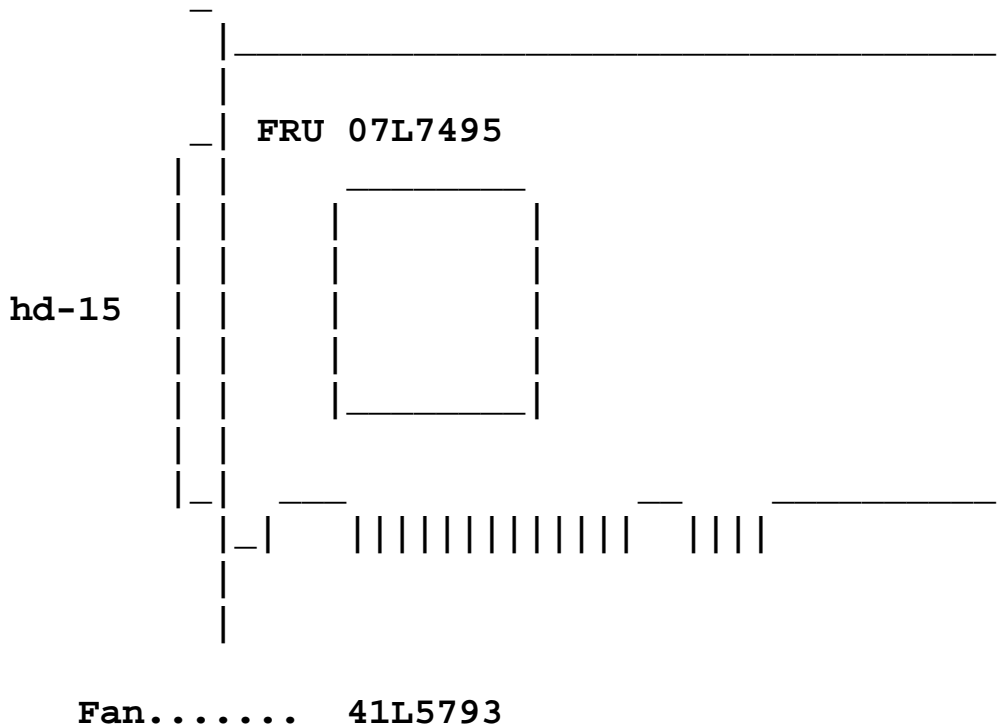
AIX filesets:

device driver --> [devices.pci.1410b800.rte](#)
X11 --> devices.pci.1410b800.X11
Diagnostics --> devices.pci.1410b800.diag

Other possible needed filesets:

OpenGL.OpenGL_X.dev.pci.1410b800.PPC
PEX_PHIGS.dev.pci.1410b800

- [See Cabling](#)



Updated: Dec 12 2000 by Bruno Croft

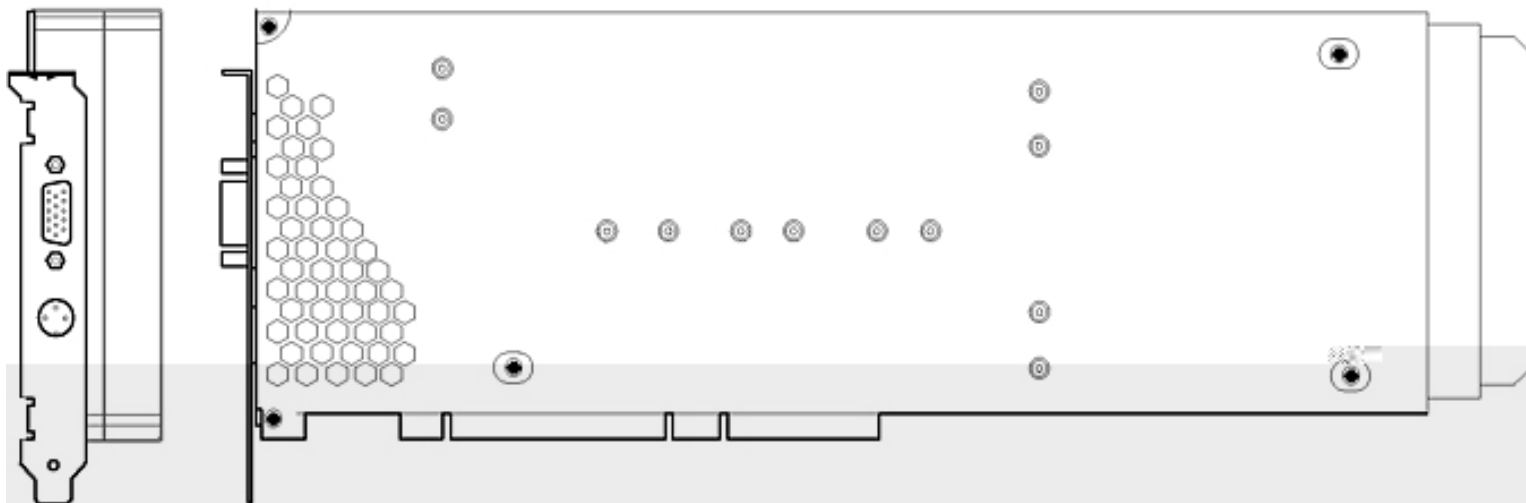
POWER GXT3000P PCI Graphics Adapters #2825

Requirement software 4.3.2

fileset: devices.pci.14108e00

- [See Cabling](#)

Black Metal Shield



FRU 41L5754, 24L0030

FFC 778

For: 7043-150/260 and 7044-170/270

Connector: 15pin 3pin mini-din

There is no fan for the GXT3000P.

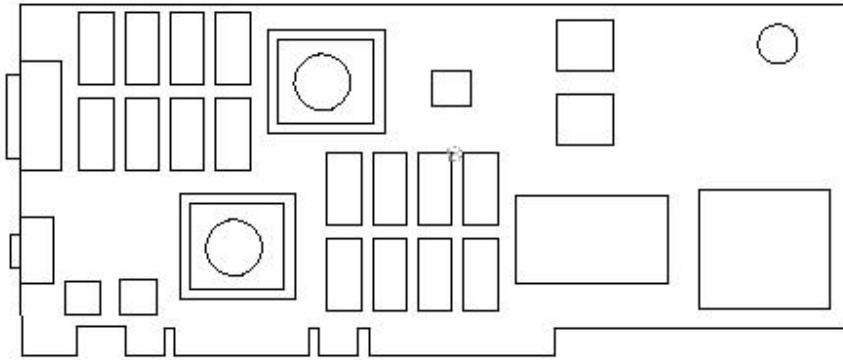
VPD example: mnt0 Available 04-2 POWER GXT3000P Graphics Adapter

Updated Jan 2004 by Bruno Croft

GXT4000P PCI Graphics Adapter

1-V #2826

- [See Cabling](#)
- [See Canadian Ann Letter](#)
- Software requirement: devices.pci.14106e01 - 4330-05
- [See current level of device driver devices.pci.14106e01.*](#)
- [More info from the Supplemental Manual](#)
- Installation and Using Guide in [PDF](#)



FRU: 00P2429

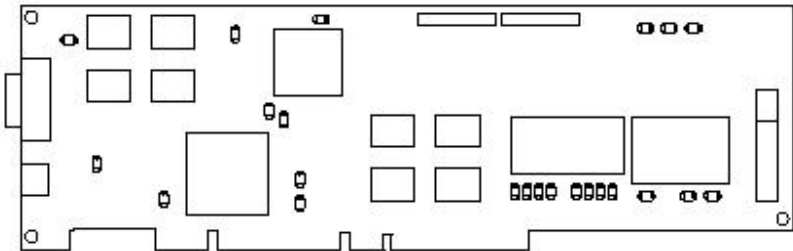
Resource Name: son10
7043-270 7044-170/270

270

Created: Nov 08 2000 by Bruno Croft
Updated: July 31 2001

GXT4500P PCI Graphics Adapter 1-Y #2842

- [See Cabling](#)
- [See Canadian Ann Letter](#)
- **Software requirement:**
AIX 4.3.3 LCD4-0286-07
5.1
devices.pci.14101c02.*
- [See](#) current level of device driver devices.pci.14101c02.*
- [More info from the Supplemental Manual](#)
- Installation and Using Guide in [PDF](#)



FRU: Adapter_____ 00P2939, 09P6547, 09P3425
Heatsink Fan_____ 09P1939

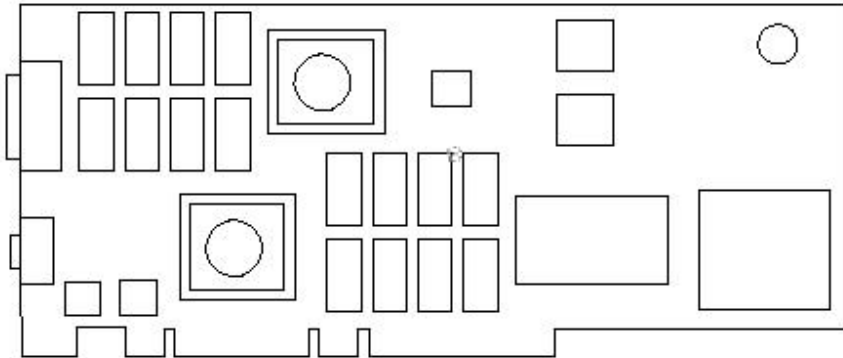
Resource Name: moj10
7043-150/270 7044-170/270 9112-265
Updated: 14 Aout
2002

270

Created: Aug 14 2002 by Bruno Croft
Updated: May 2003

GXT6000P PCI Graphics Adapter 1-W #2827

- [See Cabling](#)
- [See Canadian Ann Letter](#)
- Software requirement: devices.pci.14107001 - 4330-05
- [See](#) current level of device driver devices.pci.14107001.*
- [More info from the Supplemental Manual](#)
- Installation and Using Guide in [PDF](#)



FRU: 00P2368

Resource Name: son10

Heatsink fan: 00P2368

7043-270 7044-170/270

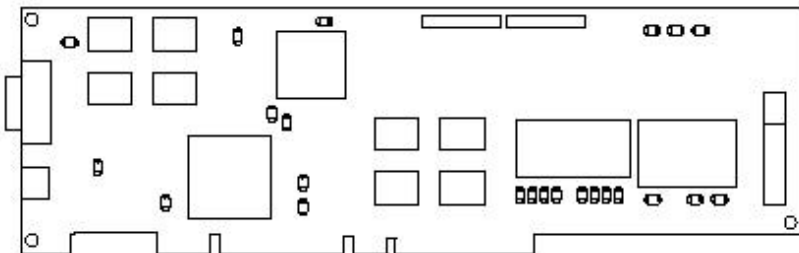
270

Created: Nov 08 2000 by Bruno Croft

Updated: Oct 2003

GXT6500P PCI Graphics Adapter 1-Z #2843

- [See Cabling](#)
- [See Canadian Ann Letter](#)
- **Software requirement:**
AIX 4.3.3 LCD4-0286-07
5.1
devices.pci.14101b02.*
- [See](#) current level of device driver devices.pci.14101b02.*
- [More info from the Supplemental Manual](#)
- Installation and Using Guide in [PDF](#)



FRU Adapter_____ 09P3391
Heatsink Fan_____ 09P1939

Resource Name: ?
7043-150/270 7044-170/270

270

Created: May 28 2002 by Bruno Croft
Updated: May 2003 Bruno Croft

MVP POWER Multi-Monitor Adapter

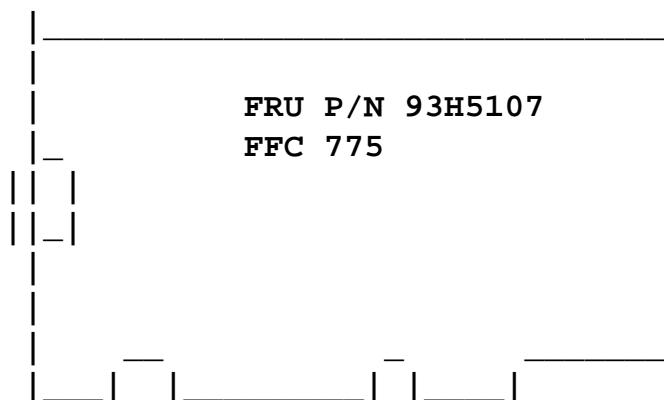
No Type - # 2837

INFO for CANADA ONLY: Ann letter is A97-0367

IMPORTANT: Some of the following information may not be accurate and are given AS IS. I collected them directly when talking with a customer who just got the adapter. I didn't find nothing about it in the recent IBM manual about PCI adapter. If you have some new info about this adapter, let me know and I will add or correct the actuals ones. - Bruno

Support: AIX 4.2.1 devices.pci.33531188 at 4.2.1
(same fileset as the GXT110P)

A diskette comes with this adapter.



This adapter **MUST** be installed in slot 3 in a 7043-240.

This adapter **MUST** be installed in slot 2 in a 7043-140. You will see the lscfg like the following:

bus2	04-02	PCI Bus
iga0	04-06	MVP POWER Graphics Adapter
iga1	04-07	MVP POWER Graphics Adapter

Slot 04-06 and 04-07 are not physical slot

The manufacturer is STB at www.stb.com

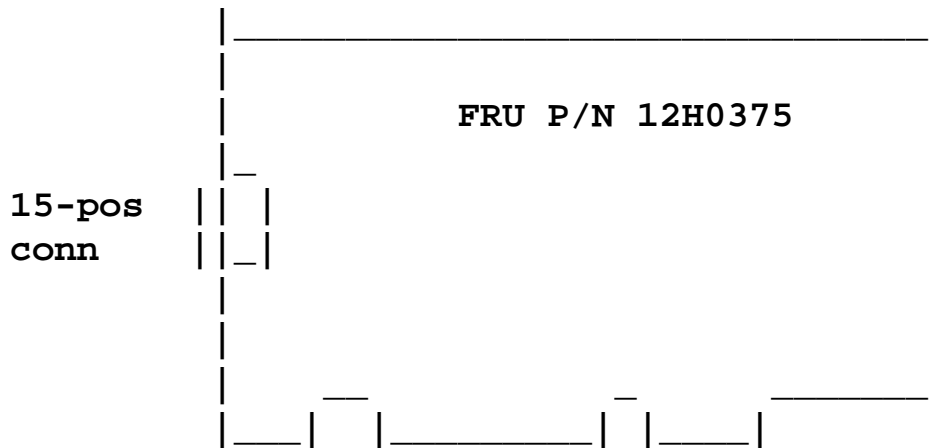
AIX 4.3.3: This adapter doesn,t seems to be supported at 4.3.3 because the adapter is not working with X11R6.

Does it work with AIX4.3.3 and X11R5 ?

Update: 7 mars 2000

S15 PCI Graphics Adapter

No Type - # 2657



Cables:	11H4003	7091-7S1.....	15-pin to 13W3
	58F2901	PowerDisplay 17, 20	15-pin to 5 BNC
	96G2156	P70, P200.....	15-pin to 13W3
	96G1712	P201.....	15-pin to 13W3

Graphics Adapter Code Names

Magenta 3D GXT500

Magenta 3DX GXT500D

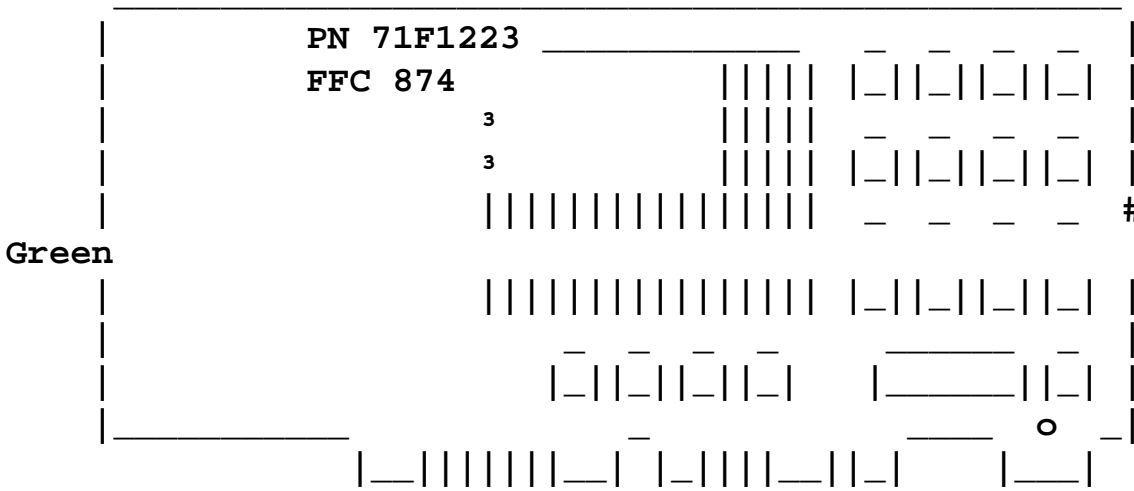
Neptune GXT150M

Ruby GXT1000

Color Graphics Display Adapter

(Type 1-1) #2770

Fileset: devices.mca.8ee4



CC- Cable Video
PN58F2903 (8 Ft)

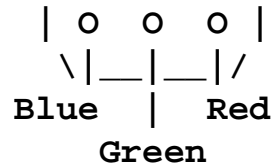
+-- Red

#-----CC-----+--

+-- Blue

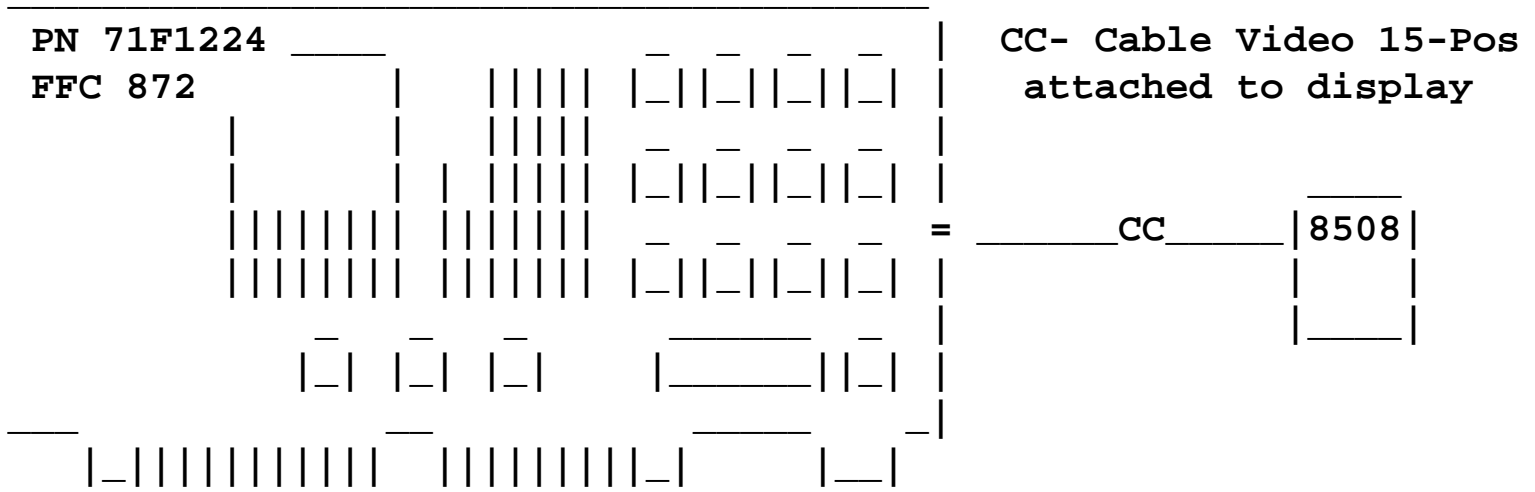
Resolution 1280 x 1024
Colors 16M (256 active)
Maximum number of adapter 2

Connector view



GRAYSCALE GRAPHICS DISPLAY ADAPTER - Type 1-2 #2760

Grayscale Graphics Display Adapter (Type 1-2) #2760



Resolution 1280 x 1024
 Colors 256 (16 active)
 Maximum number of adapter 2

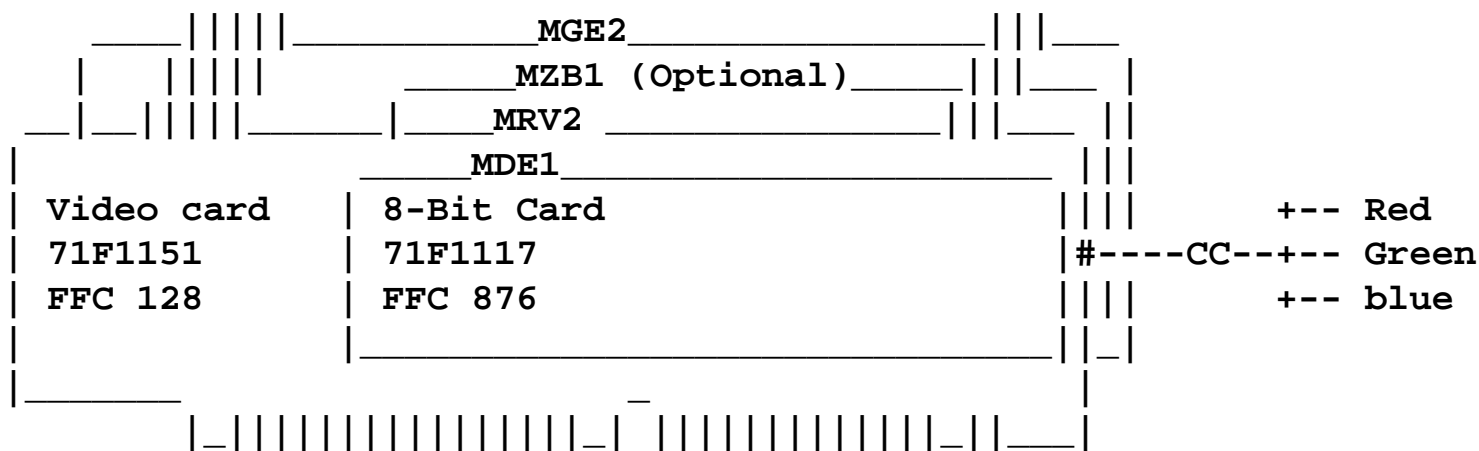
Toroid kits..... 59F4585
 (2 required for cable)

8-Bit 3D Color Graphics Processor

Type 1-3 #2780

W

N



All 3 or 4(if MZB1 present) cards take 2 adjacents slots)

MGE2 Base Card...	42F6842	FFC130	CC Cable Video..	58F2903
MZB1 Z-Buff (Opt)	42F6889	FFC118		
W Wide Conn.....	53F3271	FFC128	N Narrow Conn..	53F3272 FFC128

NOTE for AIX4: If you install AIX4, you may receive a message about devices.mca.8ee6 fileset. This is a bogus device that is used to identify these graphics adapters. there is no real devices.mca.8ee6 fileset and the adapter is not supported at AIX4

24-Bit 3D Color Graphics Processor

(Type 1-3) #2781

24-Bit 3D Color Graphics Processor (Type 1-3) #2781

W		MGE2	N	
XXXXX			XXX	
XXXXX		MZB1 (Optional)	XXX	
XXXX		MRV2	XXX	
		MEV2		
Video card	24-Bit Card			ÜÄÄ Red
71F1151	71F1114		ÛÄÄÄÄCCÄÄÄÄÄ	Green
FFC 128	FFC 879		Û³	ÄÄÄ Blue
			Û	

All 3 or 4 (if MZB1 present) cards take 2 adjacents slots)

MGE2 Base Card...	42F6842	FFC130	CC Cable Video..	58F2903
MZB1 Z-Buff (Opt)	42F6889	FFC118		
W Wide Conn.....	53F3271	FFC128	N Narrow Conn..	53F3272 FFC128

NOTE for AIX4: If you install AIX4, you may receive a message about devices.mca.8ee6 fileset. This is a bogus device that is used to identify these graphics adapters. there is no real devices.mca.8ee6 fileset and the adapter is not supported at AIX4

Graphics Subsystem Adapter

& GTO 7235-001/002 Parts

Type 1-4 / #4350

53F6532 (7016) version 1	= _____ CC _____
74F3158 (7235) version 2	

7235/7016 Cards	P/N	FFC	CC:
CVME Interface Card 7016	09G3495	110	Cable Video/7016
7235	09G3515	110	58F2903
Graph Ctrl Processor Card.	74F3384	111	
Drawing Processor card....	88G2965	114	
Shading Processor Card....	74F3118	113	Cable 68-pos/7235
8-Bit pixel memory card..	53F6536	112	74F3102
24-bit pixel memory card..	53F6538	115	

Gto Parts

7235-001/002 Including the ISO models 01I/02I

CARD NAME	CARD P/N	DESCRIPTION
U-CHANNEL	P/N74F3158	GTO U-CHANNEL CARD
CVME	P/N39F8118	GTO MAGIC/CVME CARDS
	P/N09G3515	CVME WITH 340/350 FIX
	P/N09G3715	CVME WITH 580+ FIX
GCP	P/N53F4682	FSC GTO GCP CARD
	P/N74F3384	01/91 BREAK-IN CARD
SHP	P/N53F6484	FCS SHADING PROCESSOR
	P/N74F3118	"BLUE FLASH" MANF. FIX
	P/N09G3521	MOD 02I ISO SHP CARD

FBB8	P/N53F6536	FCS 8 BIT FRAME BUF CARD
FBB24	P/N53F6538	FCS 24 BIT FRAME BUF CARD

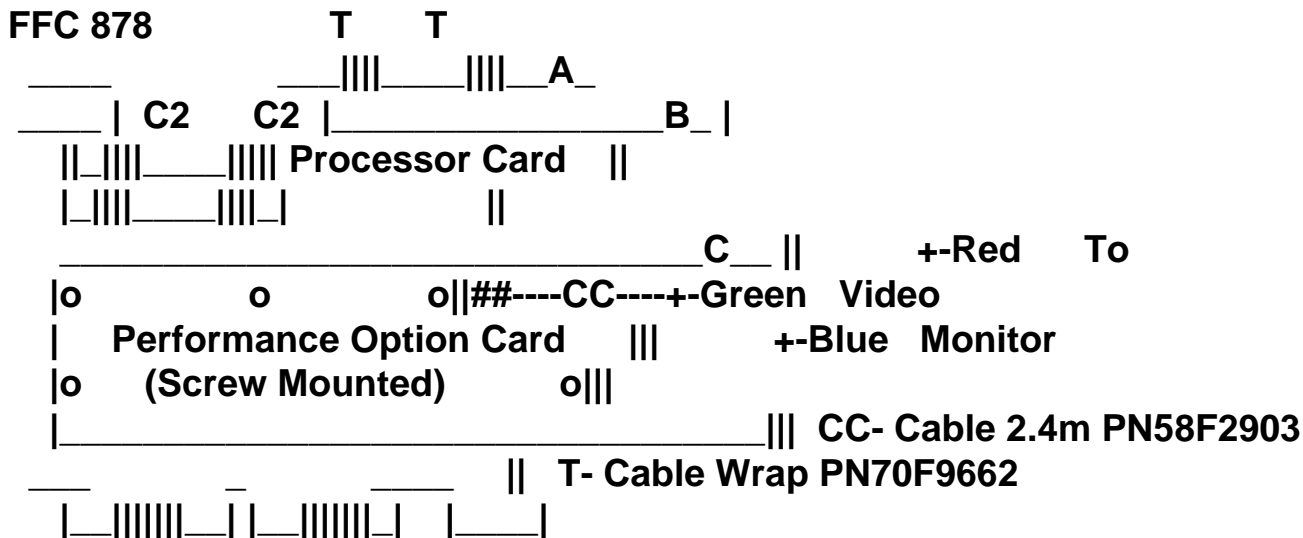
Gto Parts (suite)
7235-001/002 Including the ISO models 01I/02I

CARD NAME	CARD P/N	DESCRIPTION
DRP	P/N53F6534	FCS DRAWING PROCESSOR
	P/N74F3386	2/92 MANF. CHANGE
DRP LATEST.....	P/N88G2965	SUB FOR P/N74F3386--2/4/94
	P/N09G3549	MOD 01I & 02I ISO DRP CARD
DRP LATEST.....	P/N88G2964	SUB FOR P/N09G3549--2/4/94
BACKPLANE	P/N74F3080	
POWER SUPPLY	P/N74F3109	
	P/N09G3764	LATEST REPLACEMENT
FAN ASSY	P/N74F3092	
INTERNAL CABLE	P/N74F3104	INTERNAL RGB CABLE
CABLE GTO <--> RS	P/N74F3102	CVME SIGNAL CABLE

POWER Gt4 8Bit #2795 / Gt4x 8Bit #2790 (Type 1-5)

devices.mca.8ee3

- [See Cabling](#)



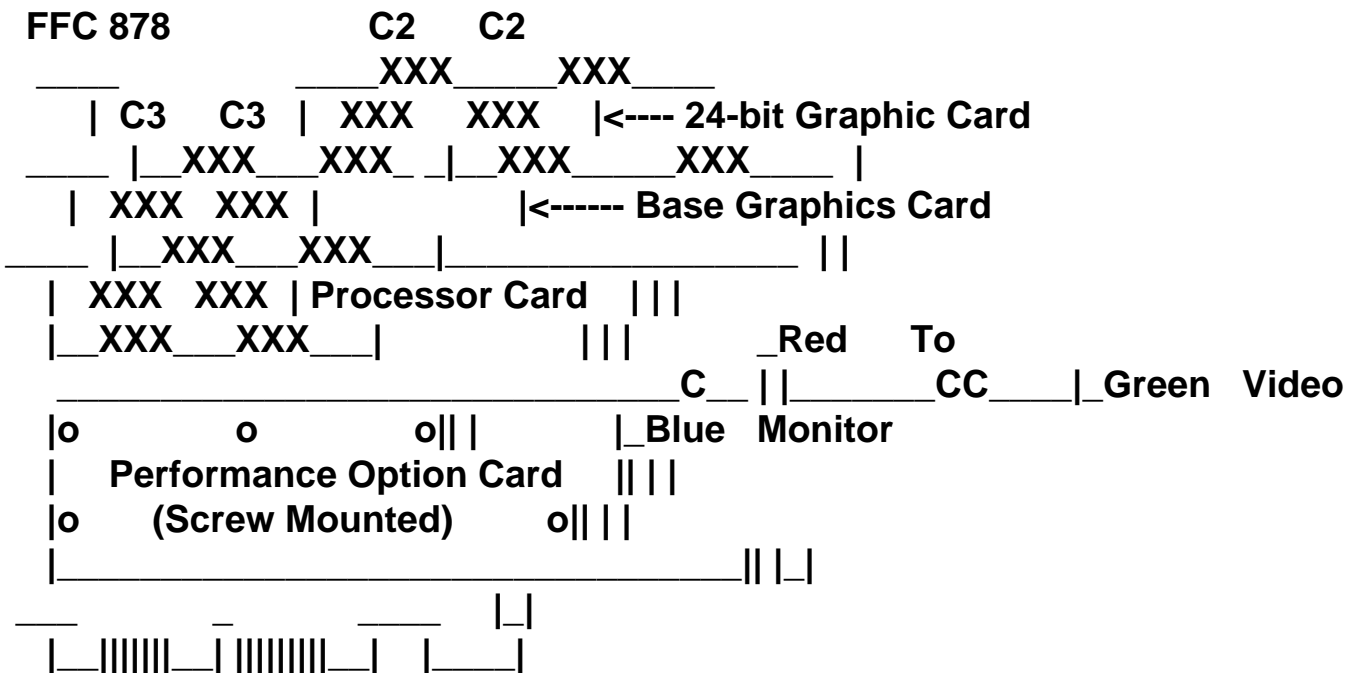
FC FFC

- A- Base Graphics Card..... 88G3988 #2795 878
- B- Processor Card..... 51G9397 #2795 878
- C- Performance option card.. 70F9664 #2794 Upgrades Gt4 to Gt4x
- C2- Cross Connector Cable two-pos.... 51G9225=(71F0253+51G9224)

- Updated Nov 14 2000 by Bruno Croft

POWER Gt4 24-Bit #2796 & Gt4x 24-Bit #2791 (Type 1-5)

- [See Cabling](#)
devices.mca.8ee3



CARDS	P/N	FC
24-bit CARD.....	51G9395	#2792
BASE GRAPHICS CARD.....	88G3988, 51G9396	#2795
PROCESSOR CARD.....	51G9397	#2795
PERFORMANCE OPTION CARD (Upgrades Gt4 to Gt4x)...	70F9664	#2794

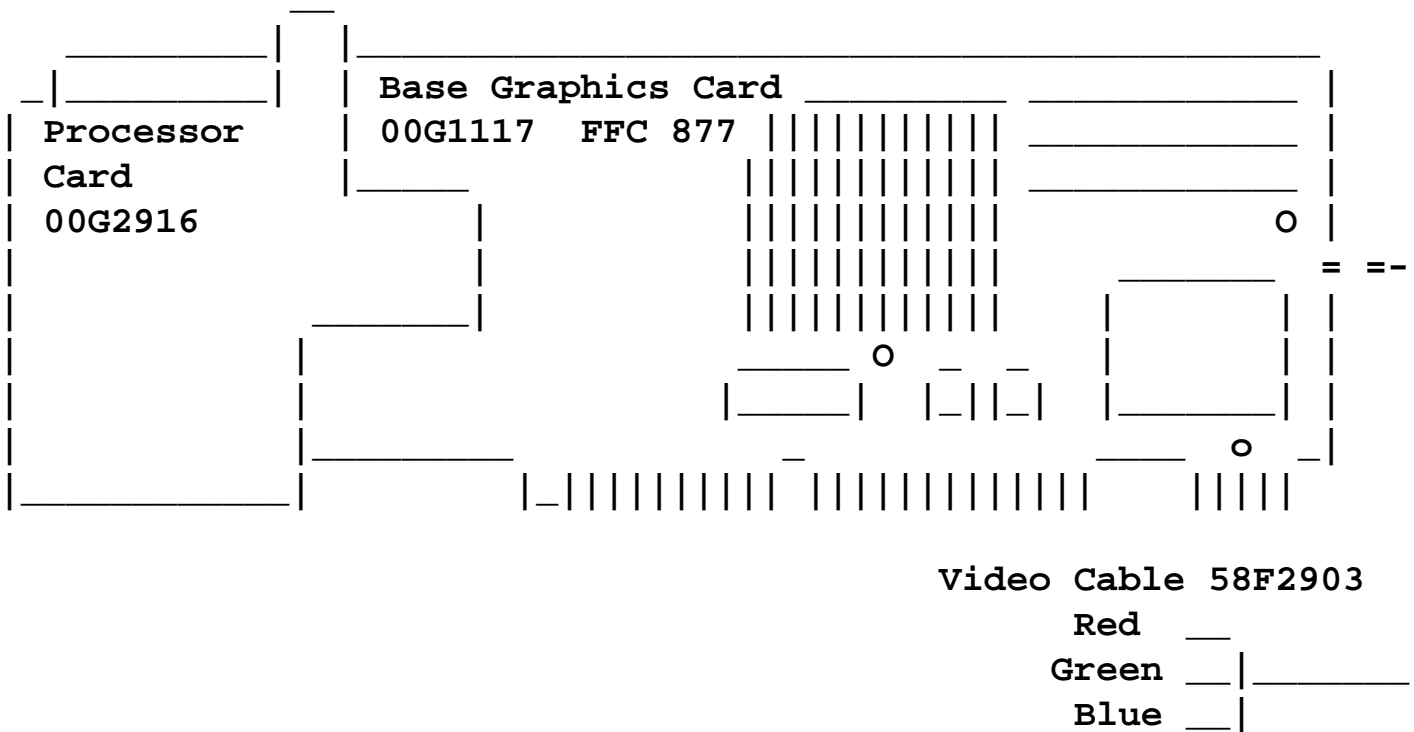
CABLES:

CC Video Cable 2.4m.....	58F2903
C2 2pos.....	51G9225 (71F0253+51G9224)
C3 3pos.....	51G9227 (71F0254+51G9226)

Updated: Nov 14 2000 by Bruno Croft

POWER Gt3 Graphics Subsystem (Type 1-6) #2777

- [See Cabling](#)

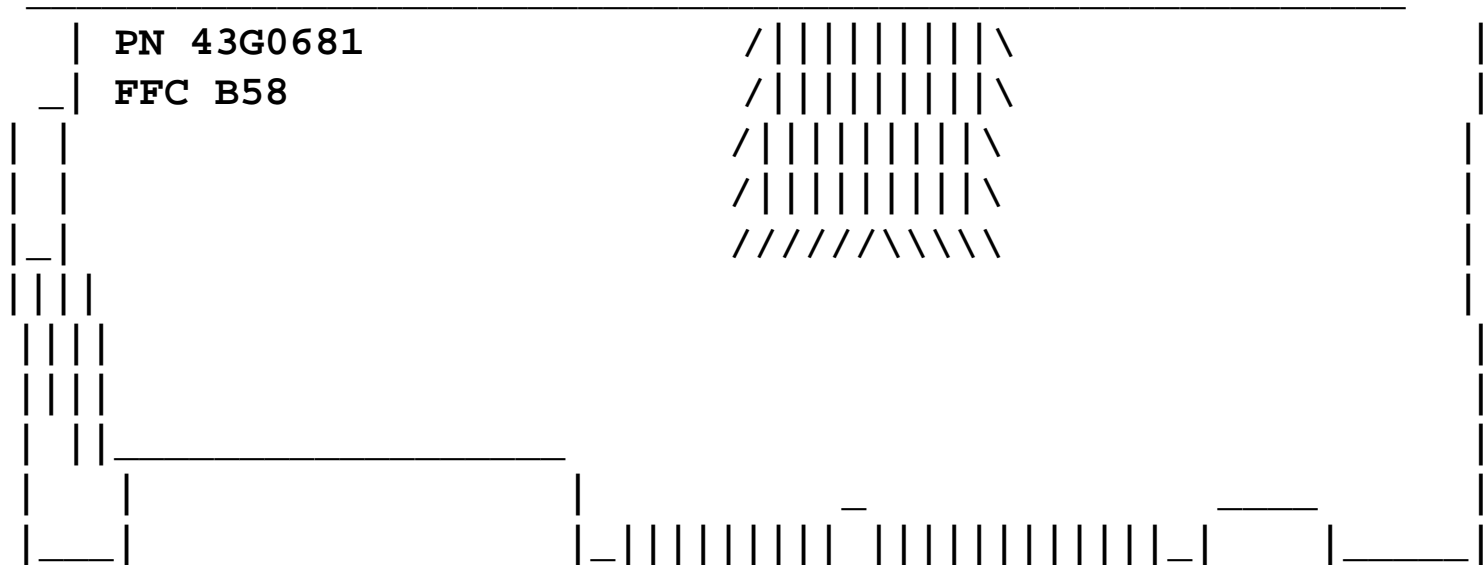


Resolution 1280 x 1024
Colors Up to 256
Max number 4
Microcode filenames.... 8ee31.xx.xx
to 8ee3ld5.xx.xx
8ee3lb.xx.xx

Updated Nov 14 2000 by Bruno Croft

POWER Gt3i Graphics Subsystem (Type 1-9) / #2768

For 7012-355/365/375



Resolution 1280 x 1024

Colors Up to 256

Microcode filenames 8ee312.xx.xxx

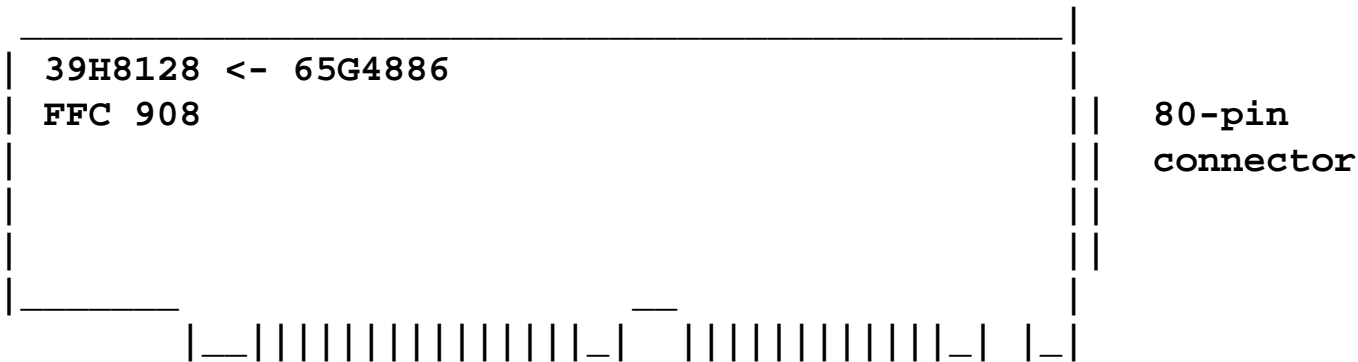
8ee31d1.xx.xx to 8ee31d5.xx.xx

8ee312b.xx.xx

Cable

RGB - PN58F2903

7250 POWER GXT1000 Graphics Accelerator Attachment Type 1-A / #2820

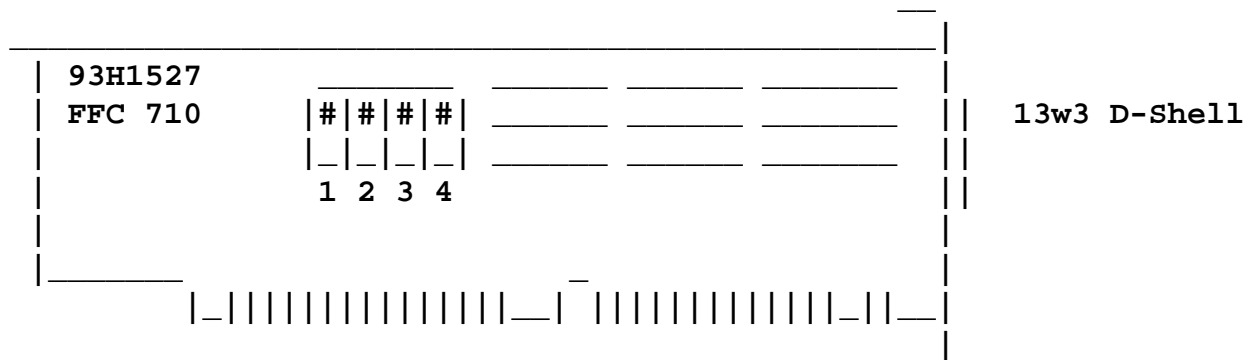


Adapter Cable.....	65G4892		
Cable Attachment Adapter Cable.....	19G5935		Serial
RSS Board.....	11H8539	7250-001	26-nnnnn
	11H8484	7250-001	26-Annnn
	40H4063	7250-002	26-nnnnn
	11H8490	7250-002	26-Annnn
VOO Board.....	65G4887	7250	
12MB VRAM SIMM.....	65G4889	7250-002	
16MB VRAM SIMM.....	65G4890	7250-002	
16MB DRAM SIMM.....	65G4891	7250-002	
Cable Attachment adapter	65G4892	7250	
RSS/GPSS Crossover cable.....	65G4893	7250	
VOO/RSS Crossover cable.....	65G4894	7250	

Last updated 11/07/97

POWER GXT150M Graphics Subsystem

- [See Cabling](#)



Adapter Cable..... 09G3539

Display Type	Screen Resolution	Refresh Freq (HZ)	Switch				Display Cable	Display Mode Sw
			1	2	3	4		
6317 Color 6324 Color 6325 Color 9524 Color 9525 Color	1280 x 1024	60	1	0	1	0	51G7826	-
1091-51 Color POWERdisplay 16S	1280 x 1024	72	1	1	1	1	09G3539	
5081-16 Color	1280 x 1024	60	1	1	1	1	09G3539	-
6091-16 Color POWERdisplay 16	1280 x 1024	60	1	1	1	1	09G3539	out (1)
		77	1	1	0	1	09G3539	in (2)
6091-19 Color	1280 x 1024	60	1	1	1	1	09G3539	2
		67	1	1	1	0	09G3539	3
6091-19i Color POWERdisplay 19	1280 x 1024	60	1	1	1	1	09G3539	2
		77	1	1	0	1	09G3539	-
6091-23 Color	1280 x 1024	60	1	1	1	1	09G3539	

**POWERdisplay 17
Color**

1280 x 1024

60

1 1 1 1

09G3539

77

1 1 0 1

74

0 1 1 0

Other Displays

1280 x 1024

60

0 1 1 1

09G3539

-

74

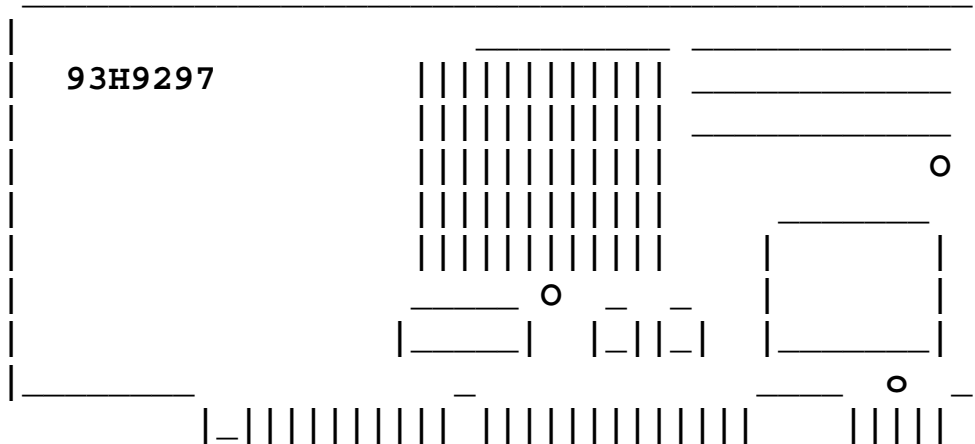
0 1 1 0

09G3539

-

POWER GXT800M 3D Graphics Adapter (Type 1-Q) #2850

- [See Cabling](#)



Filesets available from <http://service.boulder.ibm.com/rs6k/fixdb.htm>

(Needed) `devices.mca.8f61.rte`
`devices.mca.8f61.diag`
`devices.mca.8f61.X11`

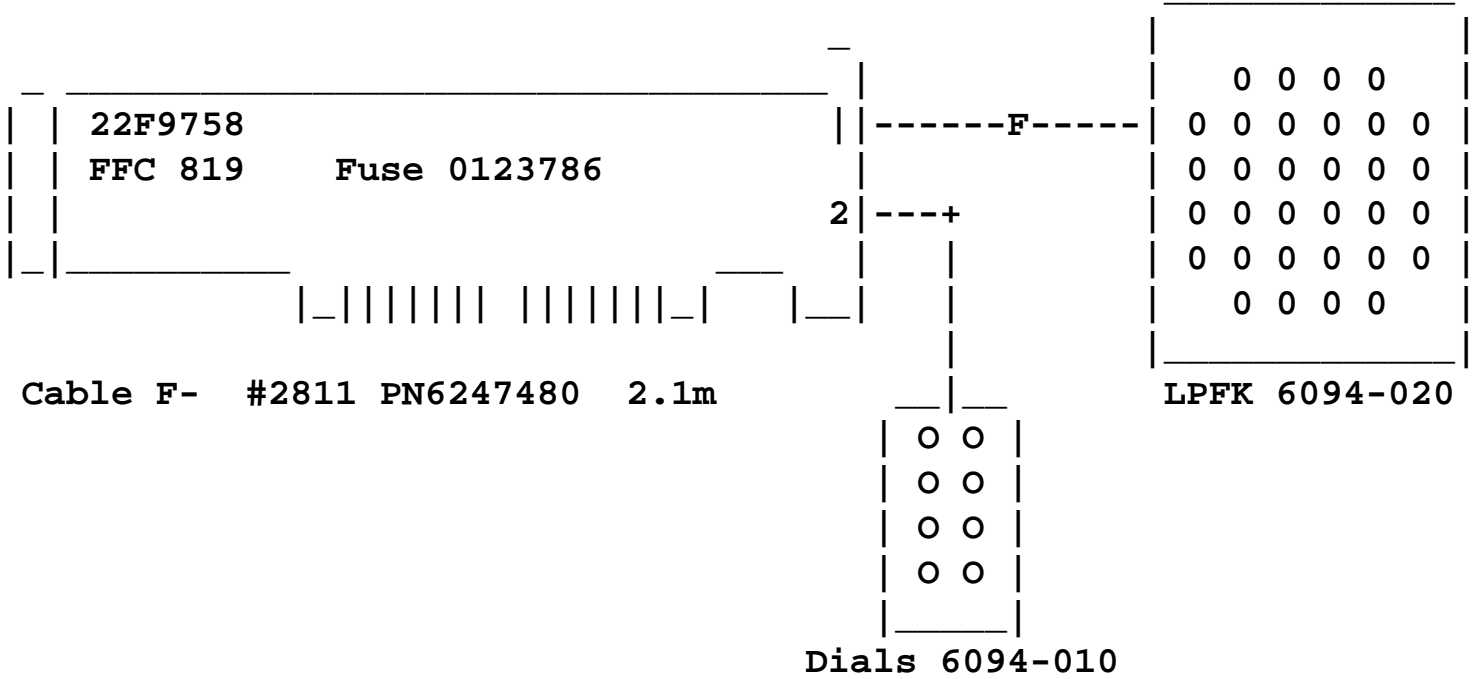
(Opt)) `OpenGL.GL32.dev.mca.8f61`
`OpenGL.OpenGL_X.dev.mca.8f61`
`PEX_PHIGS.dev.mca.8f61`
`OpenGL.GL32.dev.buc.00004002.com`

(The fileset name `OpenGL.GL32.dev.buc.00004002.com` is a little bit misleading but this is the common GL32 fileset for GXT500, GXT550M and GXT800M.)

Oct 31 2001 BJ Croft

Graphics Input Device Adapter

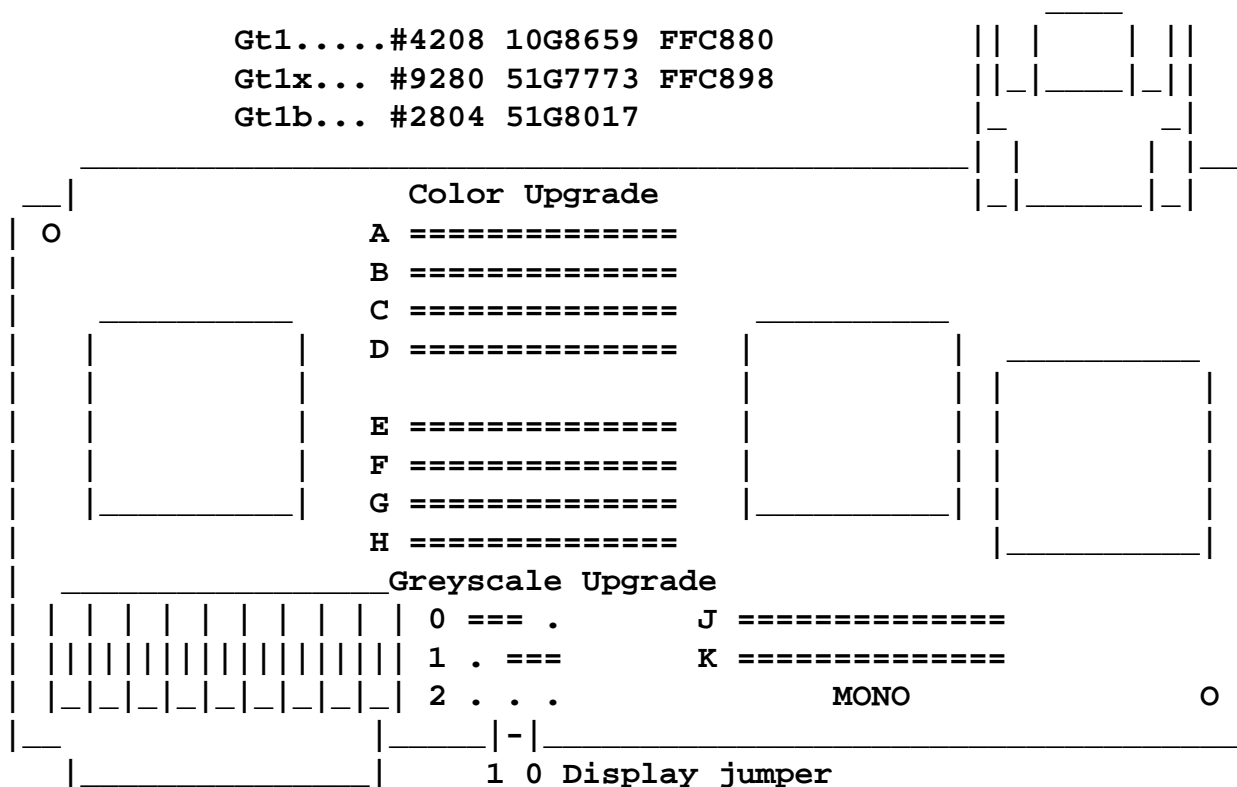
Type 6-1 / #2810



Gt1/Gt1b for 7011-220 Gt1X for 7011-220/230

NOTE: This adapter is not supported at AIX4.3

- [See Cabling for GT1X](#)



Riser Card 31F4292
 VRAM Memory PN00G2393

DISPLAY TYPE	Memory Size	Number of VRAM Modules	VRAM Sockets
Monochrome	256K	2	J, K*
Grayscale	768K	6	E, F, G, H, J, K
Color	1280K	10	A, B, C, D, E, F, G, H, J, K

* J And K are standard

Gt1/ Gt1B

DISPLAY TYPE	JMP			SCREEN RESOLUTION	Refresh Freq (HZ)	Hor Freq (KHz)	Pixel Freq (MHz)
	0	1	2				
8507 Mono	1	1	1	1024 x 768	43.5	35.5	44.9
8508 Mono	1	1	1	1280 x 1024	67	70.8	128
8514 Color	1	1	1	1024 x 768	43.5	35.5	44.9
8515 Color	1	1	1	1024 x 768	43.5	35.5	44.9
8517 Color	1	1	1	1024 x 768	69.96	57.0	78
	0	1	1	1280 x 1024	51.48	56.5	103
1091-51 Color	1	1	1	1280 x 1024	72	75.8	128
5081-16 Color	1	1	1	1280 x 1024	60	63.4	111
6091-16 Color	1	1	1	1280 x 1024	60	63.4	111
	0	1	1	1024 x 768	75.8	61.1	86
6091-19 Color	1	1	1	1280 x 1024	60	63.4	111
	1	1	0	1280 x 1024	67	70.8	120
6091-23 Color	1	1	1	1280 x 1024	60	63.4	111

Gt1/ Gt1B

DISPLAY TYPE	JMP			SCREEN RESOLUTION	Refresh Freq (HZ)	Hor Freq (KHz)	Pixel Freq (MHz)
	0	1	2				
Other Display	1	0	1	1280 x 1024	60	63.34	108
	0	0	1	1024 x 768	60	48.8	64
	0	0	0	1024 x 768	70.4	56.8	75

POWER Gt1x

Display Type	Screen Resolution	Refresh Freq (HZ)	Switch				Display Cable	Display Mode Sw
			1	2	3	4		
8508 Mono	1280 x 1024	67	1	1	1	1	51G7826	-
8517 Color	1024 x 768	70	1	1	1	1	51G7826	-
6314 Color 6319 Color	1024 x 768	60	1	1	1	1	51G7826	-
		70	0	0	1	0	51G7826	-
6317 6324	1024 x 768	60	1	1	1	1	51G7826	-
		70	0	0	1	0	51G7826	-
6325 9524		70	0	0	1	0	51G7826	-
9525		75.8	1	0	1	1	51G7826	-
	1280 x 1024	60	1	0	1	0	51G7826	-

POWER Gt1x

Display Type	Screen Resolution	Refresh Freq (HZ)	Switch				Display Cable	Display Mode
			1	2	3	4		
1091-51 Color POWERdisplay 16S	1280 x 1024	72	1	1	1	1	09G3589	-
5081-16 Color	1280 x 1024	60	1	1	1	1	09G3539	-

6091-16 Color POWERdisplay 16	1280 x 1024	60	1 1 1 1	09G3539	out (1)
		77	1 1 0 1	09G3539	in (2)
6091-19 Color	1280 x 1024	60	1 1 1 1	09G3539	2
	1280 x 1024	67	1 1 1 0	09G3539	3

POWER Gt1x

Display Type	Screen Resolution	Refresh Freq (HZ)	Switch 1 2 3 4	Display Cable	Display Mode
6091-19i Color POWERdisplay 19	1280 x 1024	60	1 1 1 1	09G3539	2
		77	1 1 0 1	09G3539	-
6091-23 Color	1280 x 1024	60	1 1 1 1	09G3539	
POWERdisplay 17 Color	1280 x 1024	60	1 1 1 1	09G3539	
		77	1 1 0 1		
		74	0 1 1 0		
		1024 x 768	70	0 0 1 0	

POWER Gt1x

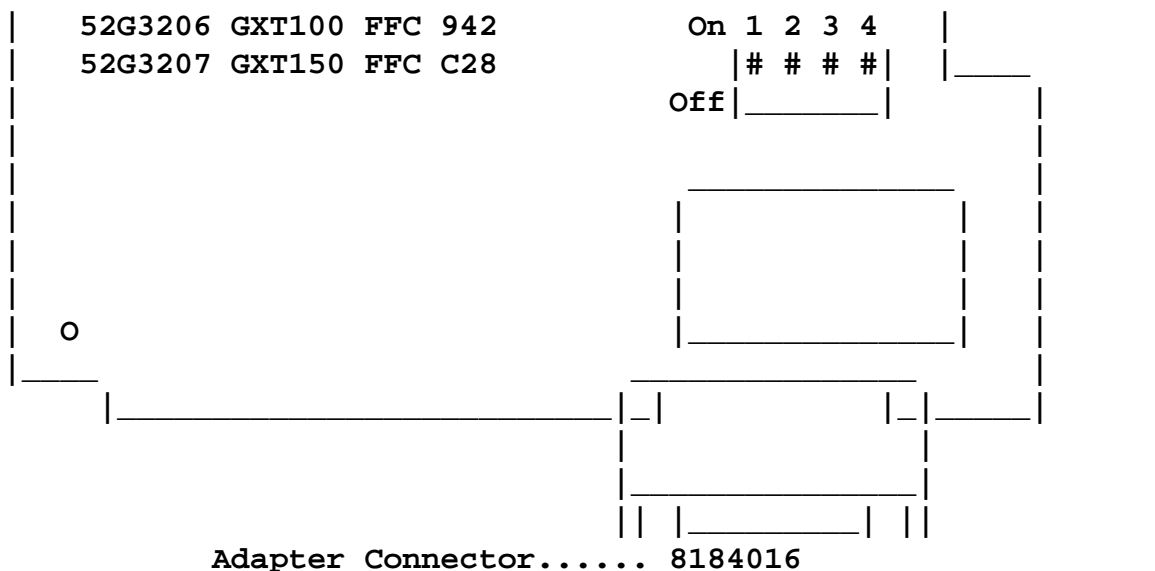
Display	Screen	Refresh	Switch	Display	Display
---------	--------	---------	--------	---------	---------

Type	Resolution	Freq (HZ)	1 2 3 4	Cable	Mode
Other Displays	1280 x 1024	60	0 1 1 1	09G3539	-
		74	0 1 1 0	09G3539	-
	1024 x 768	60	0 0 1 1	09G3539	-
		70	0 0 1 0	09G3539	-
		75.8	0 0 0 1	09G3539	-
	1152 x 900	76	0 1 0 1	51G8563	-
		66	0 1 0 0	51G8563	-

Updated Nov 16 2000 by Bruno Croft

GXT100 #2766 and GXT150 #2767 7011-250

- [See Cabling GXT100](#)
- [See Cabling GXT150](#)



Display Type	Screen Resolution	Refresh Freq (HZ)	Switch				Display Cable	Display Mode Sw
			1	2	3	4		
8508 Mono	1280 x 1024	67	1	1	1	1	51G7826	-
8517 Color	1024 x 768	70	1	1	1	1	51G7826	-
6314 Color 6319 Color	1024 x 768	60	1	1	1	1	51G7826	-
		70	0	0	1	0	51G7826	-
6317 6324 6325 9524 9525	1024 x 768	60	1	1	1	1	51G7826	-
		70	0	0	1	0	51G7826	-
		75.8	1	0	1	1	51G7826	-
		60	1	0	1	0	51G7826	-
1091-51 Color POWERdisplay 16S	1280 x 1024	72	1	1	1	1	09G3539	-
5081-16 Color	1280 x 1024	60	1	1	1	1	09G3539	-

6091-16 Color POWERdisplay 16	1280 x 1024	60	1 1 1 1	09G3539	out (1)	
		77	1 1 0 1	09G3539	in (2)	
6091-19 Color	1280 x 1024	60	1 1 1 1	09G3539	2	
		67	1 1 1 0	09G3539	3	
6091-19i Color POWERdisplay 19	1280 x 1024	60	1 1 1 1	09G3539	2	
		77	1 1 0 1	09G3539	-	
6091-23 Color POWERdisplay 17 Color	1280 x 1024	60	1 1 1 1	09G3539		
		77	1 1 0 1			
		74	0 1 1 0			
		1024 x 768	70	0 0 1 0		
		75.8	0 1 0 0			
9521, 9527 (N)				51G7826 or 09G3539		
Other Displays	1280 x 1024	60	0 1 1 1	09G3539	-	
		74	0 1 1 0	09G3539	-	
	1024 x 768	60	0 0 1 1	09G3539	-	
		70	0 0 1 0	09G3539	-	
		75.8	0 0 0 1	09G3539	-	
	1152 x 900	76	0 1 0 1	51G8563	-	
	66	0 1 0 0	51G8563	-		

Cable for 6091 PN58F2902 (video 15pins to 5 BNC leads).

6 of 6

(N) These monitors have 2 connectors on the back of the monitor.

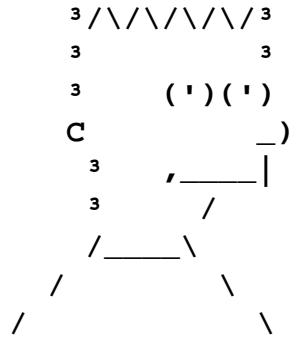
A 15-pin D-shell connector and a 5-BNC connector.

The monitors ships with a cable which has a 15-pin D-shell connector

at both ends. First PN is for 15-pin D-shell. Second PN is for 5-BNC.

OEM-Display Attachment Cable

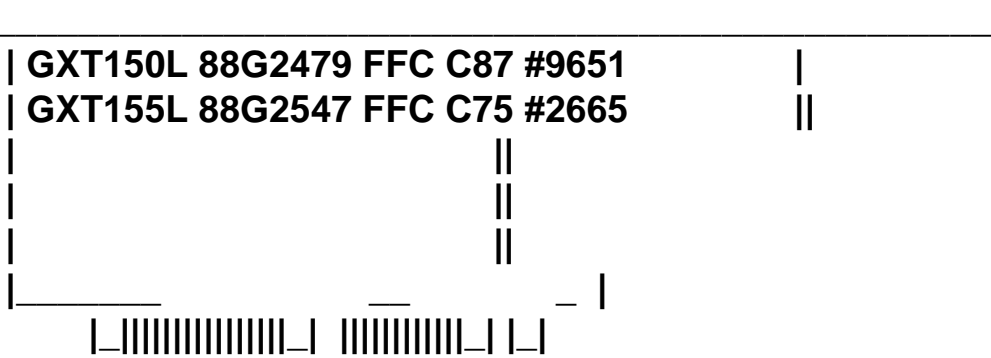
#4214-	Idek MF5117	NEC- 4D	Sony- GDM1953
	Mitsubishi HL6915	5D	GDM1954
	HL/FL6615	5FG	GDM1605
	Nanao 9070U	6FG	GDM1606



#4213-	Goldstar VGA1465
	Hyundai SVGA
	NEC 3FGx,
	Panasonic C1395

**POWER GXT150L 2D-Graphics Adapter #9651
POWER GXT155L 2D-Graphics Adapter #2665
7006-41T/41W**

- [See Cabling](#)



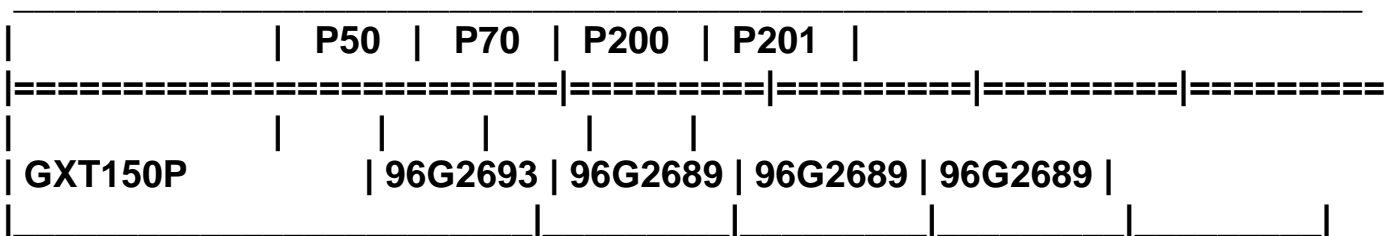
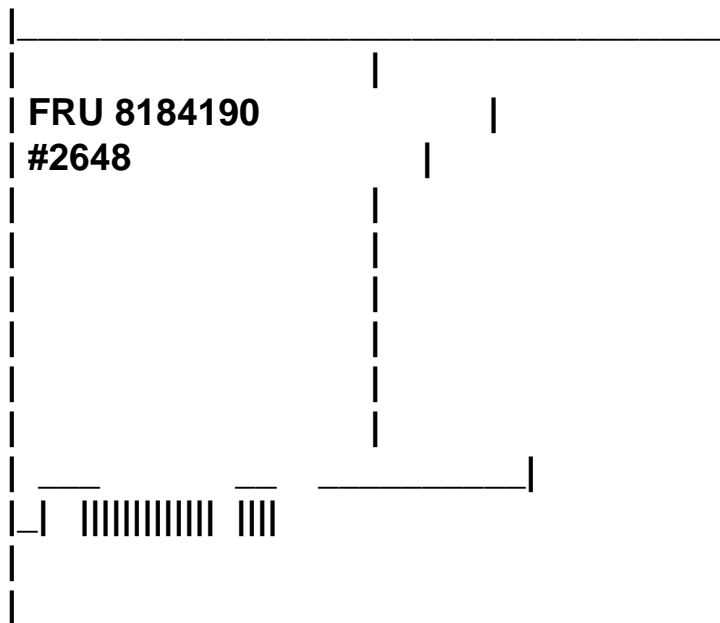
**Attach to PowerPC 601 bus.
Doesn't require use of Micro Channel slot.**

Cable for P200 96G2689 W3/13W cable

POWER GXT150P Graphics Adapter

Graphics Adapter for 7020-40P and 7248-43P - #2648

- [See Cabling](#)



2D

Supports entry-level 3D graphics via Softgraphics

256 Colors from a palette of 16.7 million colors

up to 1280 x 1024

Attach to PCI bus (local bus graphics)

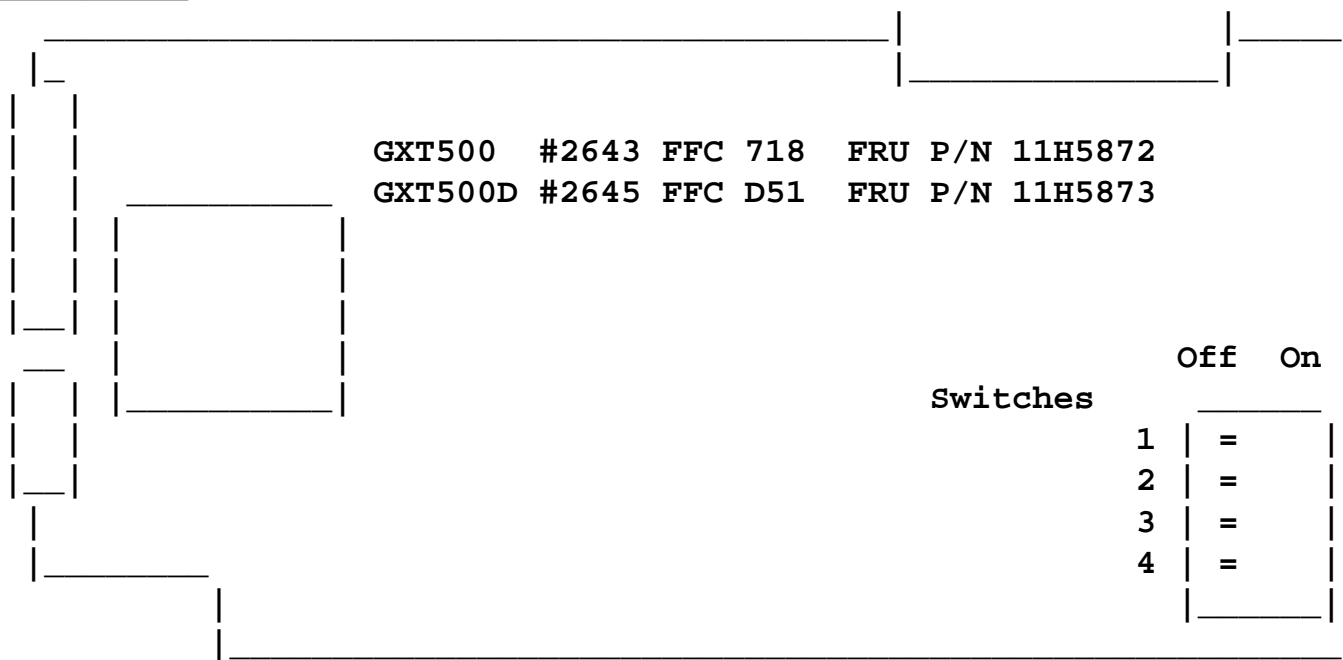
Updated Nov 14 2000 by Bruno Croft

**GXT500 #2643
&
GXT500D #2645
for
7006-41T/41W/42T/42W**

AIX 4.1 filesets: devices.buc.00004002 (.X11, .diag and .rte)
AIX 4.1.3.1 GXT500 GRAPHICS ADAPTER DIAGNOSTICS ix51199 U438945

>3251 DEVICE DRIVERS U441376

- [See Cabling](#)



NOTE: OFF(1) ON(0) It's not me. It is in the 7006 SERVICE GUIDE !

Display Type	Screen Resolution	Refresh Freq (HZ)	Display Mode Sw	Display Cable	Switch			
					1	2	3	4
1091-51 Color POWERdisplay 16S	1280 x 1024	72	-	09G3589	1	1	1	1
5081-16 Color 5081-19 with 1280x1024 RPQ	1280 x 1024	60	-	09G3539	1	1	1	1

6091-16 Color POWERdisplay 16	1280 x 1024	60 77 77 77 77	out (1) in (2) in (2) in (2) in (2)	09G3539 09G3539 09G3540 09G3541 09G3862	1 1 1 1 1 1 0 1 - - -
6091-19 Color	1280 x 1024	60 67	2 3	09G3539	1 1 1 1 1 1 1 0
6091-19i Color POWERdisplay 19	1280 x 1024	60 77 77 77 77	2 - - - -	09G3539 09G3539 09G3540 09G3541 09G3862	1 1 1 1 1 1 0 1 - - -
6091-23 Color	1280 x 1024	60	-	09G3539	1 1 1 1
6314 Color 6319 Color	1024 x 768	60	- -	52G3282 or 51G7826	1 1 1 1
		70	- -	52G3282 or 51G7826	0 0 1 0
6317, 6324, 6325, 9524, 9525	1024 x 768	60	- - -	52G3282 or 51G7826	1 1 1 1
		70	- - -	52G3282 or 51G7826	0 0 1 0
		75.8	- - -	52G3282 or 51G7826	1 0 1 1

	1280 x 1024	60	-	52G3282 or 51G7826	1 0 1 0
7091-7S1	1024 x 768	70	-	96G2689 or 11H4004	0 0 1 0
		75,8	-	96G2689 or 11H4004	1 0 1 1
	1280 x 1024	60	-	96G2689 or 11H4004	1 0 1 0
		77	-	96G2689 or 11H4004	1 1 0 1
8517 Color	1024 x 768	70	-	52G3282 or 51G7826	1 1 1 1
9521 Color 9527 Color	1024 x 768	60	-	52G3282 or 51G7826	1 1 1 1
		75.8	-	52G3282 or 51G7826	1 0 1 1
	1280 x 1024	60	-	52G3282 or 51G7826	1 0 1 0
		77	-	52G3282	1 1 0 0

			-	or 51G7826	
--	--	--	---	---------------	--

	1280 x 1024				
		60	-	09G3539	1 1 1 1
		77	-	09G3539	1 1 0 1
		77	-	09G3840	-
		77	-	09G3541	-
		77	-	09G3862	-

POWERdisplay17	1024 x 768	75.8	-	09G3539	0 0 0 1
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POWERdisplay 20	1280 x 1024	60	-	09G3539	1 1 1 1
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		77	-	09G3539	1 1 0 1
			-	09G3840	-
			-	09G3541	-
			-	09G3862	-

P1569	1024 x 768	60	-	96G2693 and 52G3282 or 51G7826	1 1 1 1
-------	------------	----	---	--	---------

	1280 x 1024	60	-	96G2693 and 52G3282 or 51G7826	1 1 1 1
--	-------------	----	---	--	---------

P1782 P2011 P2090	1024 x 768	70	-	96G2689 or 11H4004	0 0 1 0
-------------------------	------------	----	---	--------------------------	---------

		75,8		96G2689 or 11H4004	1 0 1 1
--	--	------	--	--------------------------	---------

	1280 x 1024	60	-	96G2689 or 11H4004	1 0 1 0
		77		96G2689 or 11H4004	1 1 0 1
Other Displays	1024 x 768	60	- - -	09G3539 or 51G7826	1 1 1 1
		60	-	09G3539	0 0 1 1
		70	-	09G3539	0 0 1 0
		75.8	-	09G3539	0 0 0 1
	1280 x 1024	60	-	09G3539	0 0 1 1
		77	-	09G3539	0 1 1 0

Memory 6015

IBM	CPU Mod	Type/ID	Base Max	P/N Card	SIMM SIMM	Qty Size	Total Req	Memory	Paired?
6015				SIMM on planar	73G3125 92G7429	8MB 32MB			
				L2cache 256K.....	8185175				
				bracket for L2cache.	8185288				



Memory 7006 41T 41W 42T 42W

IBM	Mod	CPU ID	Type/ Max	Base Card
7006	41T	42	PS/2	SIMM on
	41W	42	256M	planar
	42T	91	in 8	
	42W	91	slots	

P/N	SIMM	Qty	Total	Paired?
SIMM	Size	Req	Memory	
8184416	2MB	4	8MB	N/A
51G8553	4MB	4	16MB	
51G8554	8MB	4	32MB	
8184379	16MB	4	64MB	
8184380	32MB	4	128MB	

Riser Card with L2 Cache .5MB 88G2731

Memory 7008-M20

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7008	M20	43	PS/2 64MB in 8 slots	SIMM on planar	92F0105 64F3606	4MB 8MB	2 2	8MB 16MB	N/A

26 APRIL 2000

System Unit Memory Combinations

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7009	C10	48	PS/2 256M in 8 slots	SIMM on planar	8184416	2MB	4	8MB	QUAD SIMMs
					51G8553	4MB	4	16MB	
					51G8554	8MB	4	32MB	
					8184379	16MB	4	64MB	
					8184380	32MB	4	128MB	
1MB cache SIMM 65G7929									



Memory 7010

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7010	140	Standard:	Video	2MB	43G2855				
			Flash	2MB					
			RAM	4MB					
		Options:							
			Flash	4MB	43G2856				
			RAM		51G8553	4MB	#4002		
					51G8554	8MB	#4003		
					8184379	16MB	#4011		
					73G3235	32MB	#4012		



MEMORY 7011

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7011	220	45	PS/2 64MB in 8 slots	SIMM on planar	64F3605	4MB	2	8MB	matching pairs of SIMMs
					or 51G8553 64F3606	8MB	2	16MB	
	230	47	PS/2 64MB	SIMM on planar	51G8553	4MB	2	8MB	matching pairs of SIMMs
					51G8554	8MB	2	16MB	
	250	46	PS/2 256M in 8 slots		8184416	2M	4	8MB	Matching set of four SIMMs
					51G8553	4M	4	16MB	
					51G8554	8M	4	32MB	
					8184379	16M	4	64MB	
					8184380	32M	4	128MB	



MEMORY 7012

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?					
7012	320 32E/ 32H	31/ 35 35	S1 32MB	59F4433	59F4581	1MB	8	8MB	No					
					59F4582	2MB	8	16MB						
				S1.5 128M	81F8926	70F9973	4MB	8	32MB	No				
						70F9976	8MB	8	64MB					
						00G2208	59F4581	1MB	8		8MB	No		
							59F4582	2MB	8		16MB			
	340/ 350	37/ 38	S3.1 128MB		70F9973	4MB	8	32MB						
					70F9976	8MB	8	64MB						
				S3.2 128MB	32G1022	59F4581	1MB	8	8MB	No				
						59F4582	2MB	8	16MB					
						70F9973	4MB	8	32MB					
						70F9976	8MB	8	64MB					
			S3.3 256MB	32G1866	59F4581	1MB	8	8MB	No					
					59F4582	2MB	8	16MB						
					70F9973	4MB	8	32MB						
					70F9976	8MB	8	64MB						
					43G1796	16MB	8	128MB						
					52G4729	32MB	8	256MB						
			S4.5 256MB	65G1803	59F4581	1MB	8	8MB	No					
					59F4582	2MB	8	16MB						
					70F9973	4MB	8	32MB						
					70F9976	8MB	8	64MB						
					43G1796	16MB	8	128MB						
					52G4729	32MB	8	256MB						
					34H	77 76 76 76 75	S3.3 256MB	32G1866		59F4581	1MB	8	8MB	No
					355					59F4582	2MB	8	16MB	
360	70F9973	4MB	8	32MB										
36T	70F9976	8MB	8	64MB										
365	43G1796	16MB	8	128MB										
370	75	S4.5 256MB	65G1803	59F4581	1MB	8	8MB	No						
37T				59F4582	2MB	8	16MB							
375	75													

					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				52G4729	39H8312	32MB	8	256MB	
	380	58	S4.5	65G1803	59F4581	1MB	8	8MB	No
	390	57	512MB		59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				52G4729	39H8312	32MB	8	256MB	
			S4.6	52G4801	70F9973	4MB	8	32MB	
			512MB		70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				88G3680	39H8312	32MB	8	256MB	
					0.5MB L2 cache	88G3893	for 390		
					1.0MB L2 cache	88G4012	for 38cs wc		
7012	397	94	S6	93H5994	39H8924			32MB	PAIR:
			64MB		39H8925			64MB	D+H
			/1GB		43G1796			128MB	QUAD:
					39H8312			256MB	B+D+F+H
	39H	59	S4.6	52G4801	70F9973	4MB	8	32MB	Yes
			64MB		70F9976	8MB	8	64MB	Shared
			512MB		43G1796	16MB	8	128MB	CPU +
				88G3680	39H8312	32MB	8	256MB	1slot

				Base Card			SIMM		
				Empty	Populated	Size	P/N	Size	Req
7012	G30 G40	A6	MRE	35H8694	19H0290	32MB	19H0287	8MB	4
				35H8694	35H8696	64MB	19H0288	16MB	4
				35H8694	35H8697	128MB	19H0289	32MB	4
			NF _x	35H8739	19H0294	64MB	19H0287	8MB	4/16*
				35H8739	19H0295	128MB	19H0287	8MB	4/16*
				35H8739	19H0296	256MB	19H0288	16MB	4/16*
				35H8739	19H0259	512MB	19H0289	32MB	4/16*
				93H4357		1024MB	35H8751	64MB	4/16*
			RLX	11H5059	40H2668	64MB	19H0287	8MB	2x4
				11H5059	40H2669	128MB	19H0288	16MB	2x4

			11H5059	40H2670	256MB	19H0289	32MB	2x4
		SF5	93H4357		128MB	19H0287	8MB	4/16*
			93H4357		256MB	19H0288	16MB	4/16*
			93H4357		512MB	19H0289	32MB	4/16*
			93H4357		1024MB	35H8751	64MB	4/16*
		RTX	65G7610		256MB	43G1796	16MB	16
					512MB	39H8312	32MB	16

* Minimum/Maximum of DIMM. Each bank consists of 4 DIMMs. Total memory for each card is given for maximum of 16 DIMMs (4 x 4 DIMMs).



MEMORY 7013

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7013	520/ 52H	30/ 34	S1 128MB	59F4433	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
			S1.5 512MB	81F8926	70F9973	4MB	8	32MB	No
					70F9976	8MB	8	64MB	
	530	10	S1 128MB	59F4433	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
			S1.5 512MB	81F8926	70F9973	4MB	8	32MB	Yes
					70F9976	8MB	8	64MB	
	53H	18	S3.1 128MB	00G2208	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
			S3.2 512MB	32G1022	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
			S3.3 1GB	32G1866	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.5 2GB	65G1803	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
					52G4729	32MB	8	256MB	
540	14	U1	59F4436	59F4583	4MB	8	32MB	Yes	
550	1C	S3.1	00G2208	59F4581	1MB	8	8MB	Yes	

			512MB		59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
			S3.2 512MB	32G1022	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
			S3.3 1GB	32G1866	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
7013	550	1C	S4.5 2GB	65G1803	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				52G4729	39H8312	32MB	8	256MB	
			S4.6 2GB	52G4670	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
					39H8312	32MB	8	256MB	
7013	55L	77	S3.3	32G1866	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.5	65G1803	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.6 2GB	52G4801	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				88G3680	39H8312	32MB	8	256MB	
7013	560	5C	S3.2	32G1022	59F4581	1MB	8	8MB	Yes

			512MB		59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
			S3.3 1GB	32G1866	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.5 2GB	65G1803	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.6 2GB	52G4801	59F4581	1MB	8	8MB	
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				88G3680	39H8312	32MB	8	256MB	
7013	570	67	S3.3 1GB	32G1866	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.5 2GB	65G1803	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.6 2GB	52G4801	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				88G3680	39H8312	32MB	8	256MB	
7013	580	66	S3.3 1GB	32G1866	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.5	65G1803	59F4581	1MB	8	8MB	Yes

			2GB		59F4582	2MB	8	16MB		
					70F9973	4MB	8	32MB		
					70F9976	8MB	8	64MB		
					43G1796	16MB	8	128MB		
			S4.6	52G4801	59F4581	1MB	8	8MB	Yes	
			2GB		59F4582	2MB	8	16MB		
					70F9973	4MB	8	32MB		
					70F9976	8MB	8	64MB		
					43G1796	16MB	8	128MB		
				88G3680	39H8312	32MB	8	256MB		
7013	58H	71	S4.5	65G1803	59F4581	1mb	8	8mb	Yes	
	590	70	2GB		59F4582	2mb	8	16mb	or	
	59H	72			70F9973	4mb	8	32mb	Quad	
					70F9976	8mb	8	64mb		
					43G1796	16mb	8	128mb		
				52G4729	39H8312	32mb	8	256mb		
			S4.6	52G4801	59F4581	1MB	8	8MB	Yes	
			2GB		59F4582	2MB	8	16MB		
					70F9973	4MB	8	32MB		
					70F9976	8MB	8	64MB		
					43G1796	16MB	8	128MB		
				88G3680	39H8312	32MB	8	256MB		
			59H 0.5MB cache SIMM 0934172							
	591	79	S5.0	12H1331	39H8924	4MB	8	32MB	Pair	
			64MB/		39H8925	8MB	8	64MB	or	
			2GB		43G1796	16MB	8	128B	Quad	
					39H8312	32MB	8	256MB		

7013	J30	CPU ID A3	Base Card				SIMM		
			Type	Empty Base Card	Populated	Size	P/N	Size	Req
			MR2	19H0234	19H0235	64MB	19H0240	8MB	8
			MR4	19H0234	19H0286	256MB	19H0271	32MB	8
			MRB2	19H0283	?	64MB	19H0240	8MB	8
			MRB4	19H0284	?	256MB	19H0271	32MB	8
			NFX	35H8739	19H0294	64MB	19H0287	8MB	4/16*
				35H8739	19H0295	128MB	19H0287	8MB	4/16*
				35H8739	19H0296	256MB	19H0288	16MB	4/16*
				35H8739	19H0259	512MB	19H0289	32MB	4/16*

RLX	11H5059	40H2668	64MB	19H0287	8MB	2x4
		40H2669	128MB	19H0288	16MB	2x4
		40H2670	256MB	19H0289	32MB	2x4
SF5	93H4357	?	128MB	19H0287	8MB	4/16*
		?	256MB	19H0288	16MB	4/16*
		?	512MB	19H0289	32MB	4/16*
		?	1024MB	35H8751	64MB	4/16*
RTX	65G7610	?	256MB	43G1796	16MB	16
		?	512MB	39H8312	32MB	16

NOTE: MR2 and MR4 are now replaced by MRB2 and MRB4

7013	J40	CPU ID A4	Base Card			SIMM				
			Type	Empty Base Card	Populated	Size	P/N	Size	Req	
			MRB2	19H0283	?	64MB	19H0240	8MB	8	
			NFX	35H8739	19H0294	64MB	19H0287	8MB	4/16*	
				35H8739	19H0295	128MB	19H0287	8MB	4/16*	
				35H8739	19H0296	256MB	19H0288	16MB	4/16*	
				35H8739	19H0259	512MB	19H0289	32MB	4/16*	
			RLX	11H5059	40H2668	64MB	19H0287	8MB	2x4	
					40H2669	128MB	19H0288	16MB	2x4	
					40H2670	256MB	19H0289	32MB	2x4	
			SF5	93H4357	?	128MB	19H0287	8MB	4/16*	
					93H4357	?	256MB	19H0288	16MB	4/16*
					93H4357	?	512MB	19H0289	32MB	4/16*
					93H4357	?	1024MB	35H8751	64MB	4/16*

7013	J50	CPU ID A4	Base Card			SIMM			
			Type	Empty Base Card	Populated	Size	P/N	Size	Req
			SF5	93H4357	?	128MB	19H0287	8MB	4/16*

				93H4357	?	256MB	19H0288	16MB	4/16*
				93H4357	?	512MB	19H0289	32MB	4/16*
				93H4357	?	1024MB	35H8751	64MB	4/16*

Possible Memory Configuration in 7013-J30 mixing MR2 and MR4

Number of 256MB MR4 Memory Cards		0	1	2	3	4
Number of	0	-	256	512	768	1024
64MB MR2	1	64	320	576	832	-
Memory	2	128	384	640	-	-
Cards	3	192	448	-	-	-
	4	256	-	-	-	-

* Minimum/Maximum of DIMM. Each bank consists of 4 DIMMs. Total memory for each card is given for maximum of 16 DIMMs (4 x 4 DIMMs).



MEMORY 7015

Mod	CPU ID	Type/Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
930	02 or 20	S1 128MB	59F4433	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
		S1.5 512MB	81F8926	70F9973	4MB	8	32MB	Yes
				70F9976	8MB	8	64MB	
950	2E	S3.1 512MB	00G2208	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
		S3.2 128MB	32G1022	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
950	2E	S3.3 512MB	32G1866	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
		S4.5 2GB	65G1803	43G1796	16MB	8	128MB	Yes
				52G4729	32MB	8	256MB	
				59F4581	1MB	8	8MB	
				59F4582	2MB	8	16MB	
	S4.6 2GB	52G4801	70F9973	4MB	8	32MB	Yes	
			70F9976	8MB	8	64MB		
			43G1796	16MB	8	128MB		
			88G3680	32MB	8	256MB		
970	63	S3.3	32G1866	59F4581	1MB	8	8MB	Yes

		512MB		59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
		S4.5 2GB	65G1803	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
		S4.6 2GB	52G4801	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
			88G3680	39H8312	32MB	8	256MB	
97B	63	S3.3 1GB	32G1866	59F4581	1MB	8	8MB	Yes
980/ 98B/ R10	64/ 64/ 67			59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8		
		S4.5 128MB/ 2GB	65G1803	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
		S4.6 128MB/ 2GB	52G4801	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
			88G3680	39H8312	32MB	8	256MB	
980 98B R10 R24	64 64 67 82	S3.3 1GB	32G1866	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
		S4.5 2GB	65G1803	59F4581	1MB	8	8MB	Yes
				59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	

		S4.6	52G4801	59F4581	1MB	8	8MB	Yes
		2GB		59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
			88G3680	39H8312	32MB	8	256MB	
		R24 1MB cache SIMM 0934174						

990/ R20	80/ 72	S4.5	65G1803	59F4581	1MB	8	8MB	Yes
		2GB		59F4582	2MB	8	16MB	or
				70F9973	4MB	8	32MB	Quad
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
			52G4729	39H8312	32MB	8	256MB	

		S4.6	52G4801	59F4581	1MB	8	8MB	Yes
		2GB		59F4582	2MB	8	16MB	
				70F9973	4MB	8	32MB	
				70F9976	8MB	8	64MB	
				43G1796	16MB	8	128MB	
			88G3680	39H8312	32MB	8	256MB	

R20 0.5MB cache SIMM 0934172

MR4	19H0286	19H0271	32MB	8	256MB	No
1GB		(MD4)			1 Card	
NF _x	93H4357	19H0287	8MB	2x4	64MB	No
256MB		MM32			NF64	
		19H0287	8MB	4x4	128MB	No
		MM32			NF128	
		19H0288	16MB	4x4	256MB	No
		MM64			NF256	
		19H0289	32MB	4x4	512MB	No
		MM128			NF512	

NOTE: MR2 19H0234 can be replaced by MRB2 19H0283 or MRB4 19H0284

R30	CPU	Base Card			SIMM		
	ID						
	A3	Empty					
		Base					

Type	Card	Populated	Size	P/N	Size	Req
MR2	19H0234	19H0235	64MB	19H0240	8MB	8
MR4	19H0234	19H0286	256MB	19H0271	32MB	8
MRB2	19H0283	?	64MB	19H0240	8MB	8
MRB4	19H0284	?	256MB	19H0271	32MB	8
NFX	35H8739	19H0294	64MB	19H0287	8MB	8
	35H8739	19H0295	128MB	19H0287	8MB	16
	35H8739	19H0296	256MB	19H0288	16MB	16
	35H8739	19H0259	512MB	19H0289	32MB	16
RLX	11H5059	40H2668	64MB	19H0287	8MB	2x4
		40H2669	128MB	19H0288	16MB	2x4
		40H2670	256MB	19H0289	32MB	2x4
SF5	93H4357	?	128MB	19H0287	8MB	16
	93H4357	?	256MB	19H0288	16MB	16
	93H4357	?	512MB	19H0289	32MB	16
	93H4357	?	1024MB	35H8751	64MB	16
RTX	65G7610	?	256MB	43G1796	16MB	16
	65G7610	?	512MB	39H8312	32MB	16

NOTE: MR2 and MR4 are now replaced by MRB2 and MRB4

R40	CPU ID A4	Base Card			SIMM			
		Type	Card	Populated	Size	P/N	Size	Req
			Empty Base					
		MRB2	19H0283	?	64MB	19H0240	8MB	8
		NFX	35H8739	19H0294	64MB	19H0287	8MB	8
			35H8739	19H0295	128MB	19H0287	8MB	16
			35H8739	19H0296	256MB	19H0288	16MB	16
			35H8739	19H0259	512MB	19H0289	32MB	16
		RLX	11H5059	40H2668	64MB	19H0287	8MB	2x4
				40H2669	128MB	19H0288	16MB	2x4
				40H2670	256MB	19H0289	32MB	2x4
		SF5	93H4357	?	128MB	19H0287	8MB	16
			93H4357	?	256MB	19H0288	16MB	16

			93H4357	?	512MB	19H0289	32MB	16
			93H4357	?	1024MB	35H8751	64MB	16

R50	CPU	Base Card				SIMM		
		Type	Card	Populated	Size	P/N	Size	Req
	ID	Empty						
	A4	Base						
		SF5	93H4357	?	128MB	19H0287	8MB	16
			93H4357	?	256MB	19H0288	16MB	16
			93H4357	?	512MB	19H0289	32MB	16
			93H4357	?	1024MB	35H8751	64MB	16



System Unit Memory Configurations

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7016	730	10	S1 128MB	59F4433	59F4581	1MB	8	8MB	Yes
					59F4582	2MB	8	16MB	
			S1.5 512MB	81F8926	70F9973	4MB	8	32MB	Yes
					70F9976	8MB	8	64MB	



RSINFO/6000

7017-S70/S7A/S80/S85

7017-S70				
		Minimum: 512MB	Maximum: 32GB	
Base Card	Card Memory	Minimum Number of cards	Total Quad	CCIN (FC)
93H7688 (Right)	256MB	2	1024MB	4A85
93H7689 (Left)	512MB	2	2048MB	4A84
DIMMs Memory modules				
19H0288	16MB			4109
19H0289	32MB			4117
35H8751	64MB			4118
R1 Memory cards				
90H9831	128MB	4	512MB	4171
90H9834	256MB	4	1024MB	4173/4174
90H9837	512MB	4	2048MB	4175/4176
97H6226	1024MB	4	4096MB	4177/4178
97H6244	2048MB	4	8192MB	4179/4180

7017-S7A Minimum: 512MB Maximum: 32GB				
R1 Base Card	Memory	Minimum Number of cards	Total Memory Quad	CCIN (FC)
90H9831	128MB	4	512MB	4171
90H9834	256MB	4	1024MB	4173/4174
97H6204	256MB (64MB)	4	1024MB	4A73
90H9837	512MB	4	2048MB	4175/4176
97H6213	512MB (64MB)	4	2048MB	4A75
97H6226	1024MB	4	4096MB	4177/4178
97H6244	2048MB	4	8192MB	4179/4180

7017-S80/S85 Minimum: 2GB Maximum: 96GB						
Base Card	Card Memory	Minimum Number of cards	Total Quad	CCIN	FC Qty4	
23L7566	256MB	4	1024MB	4A85	4190	
23L7570	512MB	4	2048MB	4A84	4191	
23L7577	1024MB	4	4096MB	4A83	4192	
04N4994	1024MB	4	4096MB	4A89	4192	
23L7589	2048MB	4	8192MB	4A82	4193	
04N5004	2048MB	4	8192MB	4A8A	4193	
23L7595	4096MG	4	16384MB	4A81	4194	
04N5011	4096MG	4	16384MB	4A8B	4194	
*04N5531	8192MG	4	32768MB	4A8C	4195	
* requires 4330-06						

DIMM based Memory Card Configuration

Right Side || J8L ===== Bank 3 Bank 3 ===== J8R || J6L
===== Bank 1 Bank 1 ===== J6R || J4L ===== Bank 3
Bank 3 ===== J4R || J2L ===== Bank 1 Bank 1 =====
J2R || J7L ===== Bank 2 Bank 2 ===== J7R || J5L
===== Bank 0 Bank 0 ===== J5R || J3L ===== Bank 2
Bank 2 ===== J3R || J1L ===== Bank 0 Bank 0 =====
J1R || | _____ | _____ | _____ | **Updated:**
Dec 05 2001 by Bruno Croft



System Unit Memory Configurations

IBM Paired?	IBM Mod	CPU ID	Type/Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	
	7018	740	30	S1	59F4433	59F4581	1MB	8	8MB
No		741		128MB		59F4582	2MB	8	16MB
		770	67	S3.3	32G1866	59F4581	1MB	8	8MB
No		771				59F4582	2MB	8	16MB
						70F9973	4MB	8	32MB
						70F9976	8MB	8	64MB
						43G1796	16MB	8	128MB
+-----+									
			S4.5	65G1803	59F4581	1MB	8	8MB	
No						59F4582	2MB	8	16MB
						70F9973	4MB	8	32MB
						70F9976	8MB	8	64MB
						43G1796	16MB	8	128MB
+-----+									
			S4.6	52G4801	59F4581	1MB	8	8MB	
Yes			2GB			59F4582	2MB	8	16MB
						70F9973	4MB	8	32MB
						70F9976	8MB	8	64MB
						43G1796	16MB	8	128MB
				88G3680	39H8312	32MB	8	256MB	



MEMORY 7020

IBM Paired?	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory
7020	40P			SIMM on planar	73G3233 73G3125 92G7429	4MB 8MB 32MB		
				L2 Cache	256K.....		8185175	
				Bracket for L2cache	.....		8185288	



MEMORY 7024 E Series

IBM	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired?
7024	E20 /E30	C0	16MB/ 1GB		65G4615 19H0288 65G4617 39H9837 73H3451	8M 16M 32M 64M 128M			No

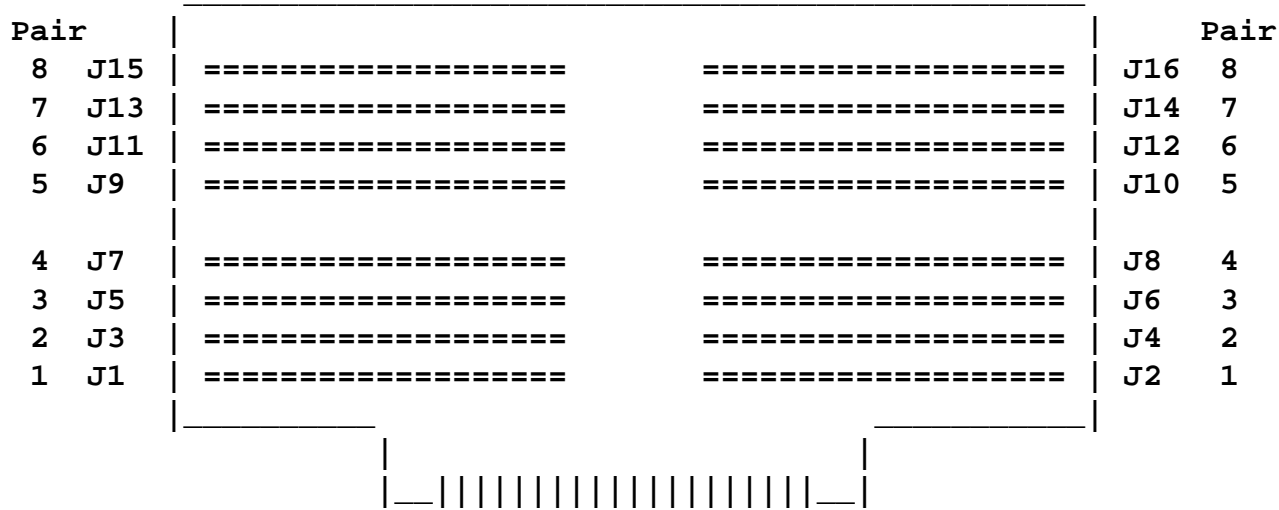


MEMORY 7025 F Series

Model	Base Card	DIMMs	FRU	DIMMs Info
F30	N/A	8MB ->	65G4615	168-pin 60ns
Min 64MB		16MB ->	19H0288	ECC
Max 1GB		32MB ->	65G4617	
		64MB ->	39H9837	One at
		128MB ->	73H3451	a time
F40	N/A	8MB ->	42H2771	168-pin 60ns
Min 64MB		16MB ->	42H2772	ECC
Max 1GB		32MB ->	42H2773	
		64MB ->	42H2774	
		128MB ->	93H6821	In pair
F50	03N4173	32MB ->	07L7729	200-pin
Min 128MB		128MB ->	93H4702	ECC
Max 3GB				In pair
F80	04N4808	32MB ->	07L7729	200-pin
Min 128MB		128MB ->	93H4702	ECC
Max 16GB		256MB ->	07L9030	ECC
		512MB ->	10L5417	ECC
		1GB ->	09P0335	
				Quad
6F0/6F1	04N4808	32MB ->	07L7729	200-pin
Min		128MB ->	93H4702	ECC
Max		256MB ->	07L9030	ECC
		512MB ->	10L5417	ECC #4131 Cannot be mixed with #4100 in a quad or a pair if memory DIMMs are installed on a 1-way CPU card.
		512MB ->	07L9758	ECC #4100 Cannot be mixed with #4131 in a quad or a pair if memory DIMMs are installed on a 1-way CPU card.
		1GB ->	09P0335	
			44H8167	memory card filler

ECC = Error Correction Code

7025-F50 DIMM CARD - DIMM 200pin - MAX 2 DIMM CARDS BACK-TO-BACK



Memory module must be installed in identical pairs
(size and speed like 2 x 32MB or 2 x 128MB)

New memory modules must be installed in the first available pair of vacant connector, starting at pair1 (J1 and J2) and progressing to pair 8 (J15 and J16). Although 4GB can be physically nstalled with 2 full card, 3GB is the maximum addressable.

Updated: Sep 17 2001 by Bruno Croft



RSINFO/6000

Memory 7026-B80/H10/H50/H70/H80/M80

7026-B80 Min: 256MB Max: 16GB			
Base Card	DIMMs	FRU	Pair
07L7065	128MB	93H4702	Yes
	256MB	09P0550	
	512MB	09P0491	

7026-H10 Min: 16MB Max: 1GB			
Base Card	DIMMs	FRU	Pair
N/A	16MB	42H4772	No
	32MB	42H2773	
	64MB	42H2774	
	128MB	93H6821	

7026-H50 Min: 64MB Max: 3GB			
Base Card	DIMMs	FRU	Pair
03N4173 (93H2641)	32MB	07L7729	Yes
	128MB	93H4702	

7026-H70			
		Min: 64MB	Max: 8GB
Base Card	DIMMs	FRU	Pair
00P1967	32MB	07L7729	Yes
00P1967	128MB	93H4702	
00P1967	256MB	07L9030	

7026-H80/6H1			
		Min: 256MB	Max: 32GB
	DIMMs	FRU	Quad or Pair?
Memory riser		53P3206, 04N4808.	
Memory filler		23L8127	
	32MB	07L7729	*
	128MB	93H4702	*
	256MB	07L9030	*
	*512MB	10L5417	* #4131
New	*512MB	07L9758	* #4100
	1GB	09P0335	
* Pair = in 1-way CPU configuration			
* Quad = in 2-way, 4-way and 6-way configuration			
Memory card (up to 2).... 04N4808			
(16 slots for DIMM on each riser)			

7026-M80/6M1			
		Min: 1GB	Max: 32GB
	DIMMs	FRU	Octal FC

32MB	07L7729	Yes	
128MB	93H4702	Yes	
256MB	07L9030	Yes	
*512MB	10L5417	Yes	#4131
*512MB	07L9758	Yes	#4100

* Cannot be mixed

Memory card (up to 2).... 04N3033
(32 slots for DIMM on each riser)

Last updated: Oct 2003 by Bruno Croft



MEMORY 7028
p610 6C1/6E1
p630 6C4/6E4

Model	Base Card	DIMMs	FRU	DIMMs Pair
6C1/6E1	09P2890	256MB	09P0550	Pair
Min 512MB		512MB	09P0491	Pair
Max 8GB				
6C4/6E4	N/A	256MB	53P3224	Quad
Min 1GB		512MB	53P3226	Quad
Max 32B		1GB	53P3230	Quad
(on 4-way system)		2GB	53P3232	Quad
9112-265 same as 6C1				

Created: Sep 2002 by Bruno Croft



RSINFO/6000

MEMORY 7029-6C3/6E3 p615

Model	Base Card	DIMMs	FRU	Pair/Quad
6C3/6E3	N/A	256MB	00P5765	Quad
1GB/8GB		512MB	00P5767	Quad
		1GB	00P5769	Quad
		1GB	00P5771	Quad
		2GB	00P5773	Quad

Created: Sep 2004 by Bruno Croft



MEMORY 7030-3AT/ 3BT/ 3CT

IBM Paired?	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory
No	7030 3AT/	57/	S4.5	65G1803	59F4581	1MB	8	8MB
		3BT 58	512MB		59F4582	2MB	8	16MB
					70F9973	4MB	8	32MB
					70F9976	8MB	8	64MB
					43G1796	16MB	8	128MB
				52G4729	39H8312	32MB	8	256MB
				3BT 0.5MB L2 cache	88G3893			
Yes		3CT 59	S4.6	52G4801	70M9973	4M	8	32MB
			64MB/		70F9976	8M	8	64MB
			512MB		43G1796	16M	8	128MB
				88G3680	39H8312	32M	8	256MB



RSINFO/6000

MEMORY 7038-6M2 p650

Model Quad?	Base Card	DIMMs	FRU	Pair/ Quad
2GB/64GB	N/A	512MB	53P3226	Quad
1GB 53P3230 Quad 2GB 53P3232 Quad				

Created: Mar 2003 by Bruno Croft
Updated: Sep 2004 by Bruno



RSINFO/6000



Memory 7040-671 p670

	Mem	FRU		CCIN	FC	Card Paired ?	
671	4GB	53P5603	Book I	305C	#4196	No	
Min 4GB	8GB	53P5604	Book I	302A	#4181	No	
Max 128GB	16GB	53P5606	Book I	305E	#4183	No	
		53P4252		307C	#4484		567MHz
	32GB	53P5608	Book I	302C	#4188	No	
		53P4259	Book I	308D	#4486		567MHz
	64GB	53P4266			#4488		567MHz

Memory 7040-681 p690

	Mem	FRU		CCIN	FC	Card Paired ?	
681	4GB	53P5603	Book I	305C	#4196	No	
Min 8GB		53P5627	Book O	305D	#4197	No	
Max 256GB		53P4242	Book I	307A	#4480		567MHz
		53P4273	Book O	308A	#4481		567MHz
	8GB	53P5604	Book I	302A	#4181	No	
		53P5628	Book O	302B	#4182	No	
		53P4247	Book I	307B	#4482		567MHz
		53P4278	Book O	308B	#4483		567MHz
	16GB	53P5606	Book I	305E	#4183	No	
		53P5630	Book O	305F	#4184	No	
		53P4252	Book I	307C	#4484		567MHz
		53P4283	Book O	308C	#4485		567MHz

	32GB	53P5608	Book I	302C	#4188	No	
		53P5632	Book O	302D	#4189	No	
		53P4259	Book I	308D	#4486		567MHz
		53P4290	Book O	308E	#4487		567MHz
	64GB	53P4266	Book I		#4488		567MHz
		53P4297	Book O		#4489		567MHz
CUoD	8/16MB	53P4254	Book I	30BD	#7050		567MHz
		53P4285	Book O	30C6	#7051		567MHz
	16/32MB	53P4261	Book I	30C1	#7054		567MHz
		53P4292	Book O	30CA	#7055		567MHz

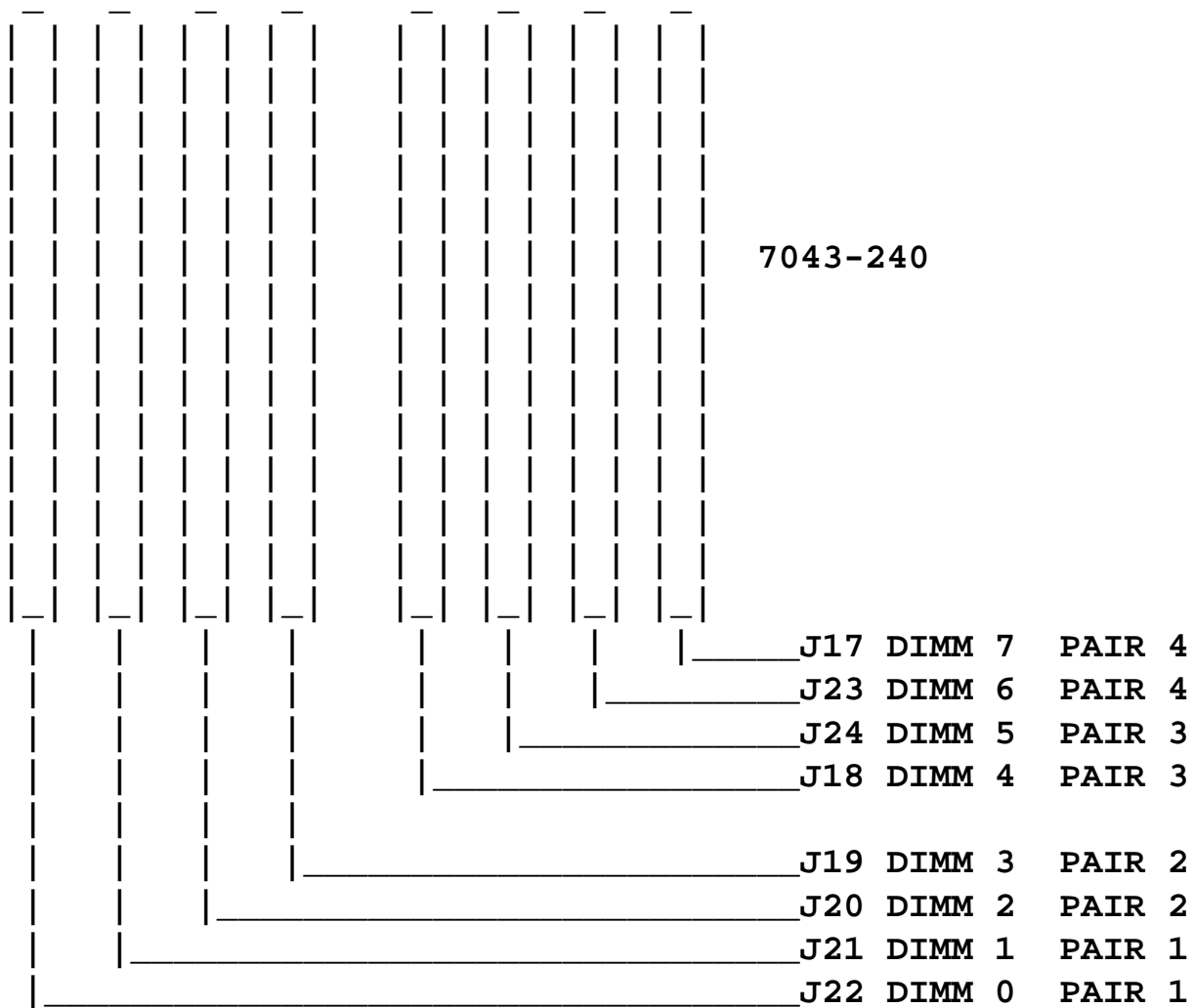
Created: Sep 2002 by Bruno Croft Update: Dec 2003 Bruno



MEMORY 7043-43P

Model	Base Card	DIMMs	FRU	DIMMs Info
140	N/A	16MB ->	42H2772	EDO ECC 168-pin 3.3 volt
Min 32MB		32MB ->	42H2773	EDO 60ns
Max 768MB		64MB ->	42H2774	EDO pair not mandatory
		128MB ->	93H6823	
L2 cache	1MB 75H5463		512KB 75H5462	
150	N/A	64MB ->	19L1808	ECC 168-pin 3.3volt
Min 64MB		128MB ->	19L1809	60ns
Max 1GB		256MB ->	29L3302	pair not mandatory
240	N/A	8MB ->	42H2771	EDO ECC 168-pin 3.3volt
Min 32MB		16MB ->	42H2772	EDO 60ns
Max 1GB		32MB ->	42H2773	EDO
		64MB ->	42H2774	EDO
		128MB ->	93H6822	pair
260	07L7065	32MB ->	07L7729	
Min 256MB		128MB ->	93H4702	
Max 8GB		256MB ->	07L9030	In pair
(512K L2 Cache (No P/N) integrated with CPU)				

7043-240 Memory modules must be installed in identical pairs (size and speed).



Updated: Apr 2004 by BJ Croft



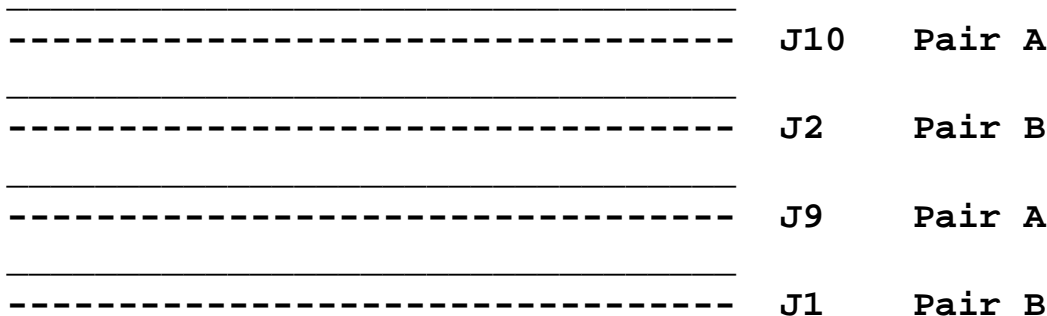
RSINFO/6000



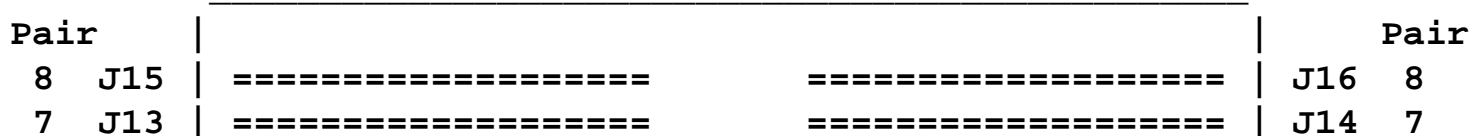
MEMORY 7044-170/270

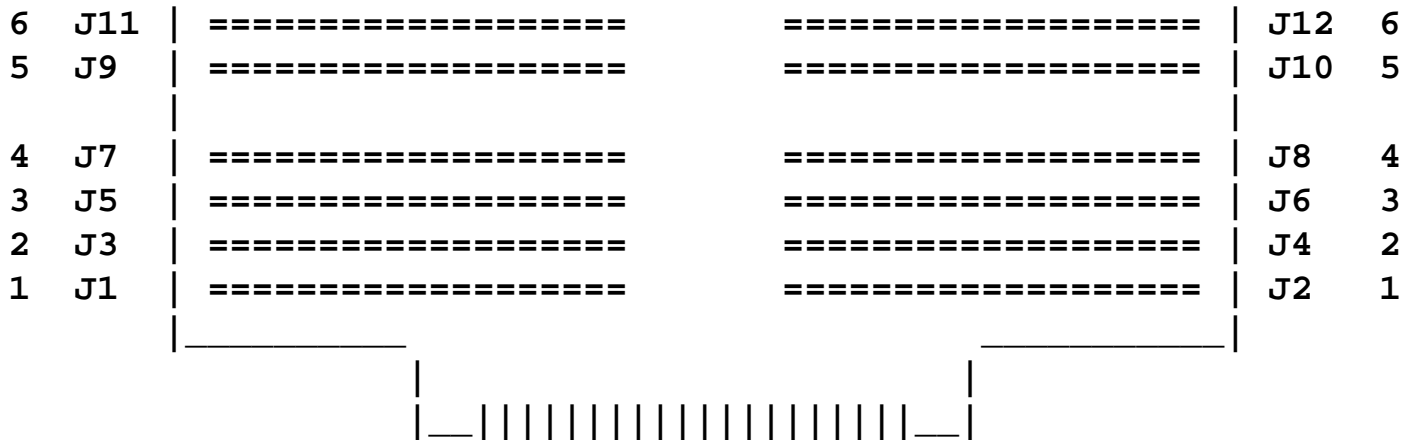
Model	Base Card	DIMMs	FRU	DIMMs	Pair ?
170	N/A	128MB	93H4702	yes	
Min 256MB		256MB	*07L9030	yes	4119 10
Max 2GB		256MB	*09P0550	yes	4120 8
		512MB	*07L9758	yes	
		512MB	*09P0491	yes	
* DIMMs within a pair must have the same FRU Number					
270	00P1967	128MB	93H4702	yes	
Min 256MB		256MB	07L9030	yes	
Max 8GB		256MB	09P0550	yes	
		512MN	09P0491	yes	

7044-170



7044-270





Created: Dec 21 2000 by Bruno Croft

Updated: Aug 01 2001 by BJ Croft

**MEMORY 7046-B50**

Model	Base Card	DIMMs	FRU	DIMMs Pair ?
Min 128MB	System	128MB	19L1809	No
Max 1GB	Board	256MB	29L3302	No

Created: Dec 21 2000 BJ Croft

Update: Feb 06 2002 BJ Croft



MEMORY 7248-43P

IBM Paired?	Mod	CPU ID	Type/ Max	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory
Pair of 7248 SIMMs	43P			SIMM on planar	92G7521 or 73G3234 93H5582 93H5583	8MB 16MB 32MB		
100)					L2 cache: 256KB	12H0611	(standard mod	
120/133)						512KB 12H0612	(standard mod	



MEMORY 9076-SP2

IBM	Model	CPU ID	Type/ MAX	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired ?
9076 SP2	62MHZ Thin Node	75	S3.3 32MB/ 256MB	32G1866	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
			S4.5 32MB/ 512MB	52G4801	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				88G3680	65G6452	32MB	8	256MB	
	66MHZ Thin Node	57	S4.5 32MB/ 512MB	52G4801	59F4581	1MB	8	8MB	No
					59F4582	2MB	8	16MB	
					70F9973	4MB	8	32MB	
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
				88G3680	65G6452	32MB	8	256MB	
	66MHZ Thin Node 2	59	S4.6 32MB/ 512MB	52G4801	70F9973	4MB	8	32MB	Yes
					70F9976	8MB	8	64MB	
					43G1796	16MB	8	128MB	
					88G3680	65G6452	32MB	8		256MB
	120MHZ Thin Node	81	S5.0 64MB/ 2GB	12H1331	39H8924	4MB	8	32MB	Yes
					39H8925	8MB	8	64MB	
					43G1796	16MB	8	128MB	
					39H8312	32MB	8	256MB	

	160MHZ Thin Node	94	S6 64MB/ 1GB	93H5994	39H8924 39H8925 43G1796 39H8312	4MB 8MB 16MB 32MB	8 8 8 8	32MB 64MB 128MB 256MB	Yes
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IBM	Model	CPU ID	Type/ MAX	Base Card	P/N SIMM	SIMM Size	Qty Req	Total Memory	Paired ?
9076 SP2	66MHz Wide Node	70	S4.5 64MB/ 2GB	52G4801 88G3680	59F4581 59F4582 70F9973 70F9976 43G1796 65G6452	1MB 2MB 4MB 8MB 16MB 32MB	8 8 8 8 8 8	8MB 16MB 32MB 64MB 128MB 256MB	Yes
			S4.6 64MB/ 2GB	52G4801 88G3680	59F4581 59F4582 70F9973 70F9976 43G1796 65G6452	1MB 2MB 4MB 8MB 16MB 32MB	8 8 8 8 8 8	8MB 16MB 32MB 64MB 128MB 256MB	Yes
	77MHZ/ 135MHZ Wide Node	79	S5.0 64MB/ 2GB	12H1331	39H8924 39H8925 43G1796 39H8312	4MB 8MB 16MB 32MB	8 8 8 8	32MB 64MB 128MB 256MB	Yes

IBM	Model	CPU ID	Type	Base Card	P/N DIMM	DIMM Size	Qty Req	Total Memory	Paired ?
9076 SP2	604 High Node (R40)	A4	RLX	11H5059	19H0287 19H0288 19H0289	8MB 16MB 32MB	8 8 8	64MB 128MB 256MB	

	604e High Node (R50)	A4	SF5 with Samsung DIMM	93H4357	07L6696 07L6696 07L6696	64MB 64MB 64MB	4 8 16	256MB 512MB 1GB	
			SF5 with IBM DIMM	93H4357	19H0287 19H0287 19H0288 19H0289	8MB 8MB 16MB 32MB	8 16 16 16	64MB 128MB 128MB 512MB	

Silver SMP Thin and Wide 332MHz

Description	Number of DIMMs	Total capacity	FRU
Base Card	NA	24 DIMMs (12 pairs)	03N4173
128MB DIMMs	1	128MB	93H4702

Winterhawk I POWER3 SMP Thin and Wide 200MHz

Description	Number of DIMMs	Total capacity	FRU
Base Card	NA	32 DIMMs (16 pairs)	00P1967
128MB DIMMs	1	128MB	93H4702

Winterhawk II POWER3 SMP Thin and Wide 375MHz/450MHz

Description	DIMMs always in pair	FRU
Base Card	Holds 16 DIMMs (8 pairs)	03N4209
128MB DIMMs		93H4702
256MB DIMMs		07L9030
512MB DIMMs		07L9758

Nighthawk I & II POWER3 SMP Thin and Wide 222MHz/375MHz Min:1GB Max:16GB

Empty Base Card NightHawk I..... 03N4183 <-- 07L6608

Base Card	DIMMs	Total Capacity	FRU
03N4183	1 x 128MB	128MB	93H4702
03N4183	4 x 128MB	0.5GB	12K0404
03N4183	1 x 256MB	256MB	07L9030
03N4183	4 x 256MB	1GB	12K0405

4 memory slots - each card hold 32 DIMMs - minimum group of 8

Updated DEC 14 2000 by Bruno Croft

IBM	Model	CPU ID	Type	Base Card	P/N DIMM	DIMM Size	Qty Req	Total Memory	Paired ?
-----	-------	--------	------	-----------	----------	-----------	---------	--------------	----------

9076
SP2

MEMORY**9111-520 9113-550 9117-570 9119-590/595**

9111-520			
DIMMs	FRU		
CCIN			
256MB	53P3222	309B	DDR1
512MB	53P1613	3046	
512MB	00P5767	30D2	DDR1
1GB	53P1634	3094	
1GB	00P5769	30D3	DDR1
2GB	00P5773	30D5	DDR1
4GB	16R0711	30AC	DDR1
2GB	53P1641	3096	

Created: Mar 2003 by Bruno Croft

7012-G30 Memory P/N Cross Reference Chart

					Feature						
128	256	512	256	512	Base	64	128	256	512	32	64
Memory ----->|Conv. Kit|					|<----- Select ----->|<-----						
4153	4157	4158	4061	4062	9044	4140	4141	4142	4153	4151	4152
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
|	|	|	|	|	|	|	|	4122	4123	|	|
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
MRE - used on G30 only					|	|	|	|	|	|	|
MRE Card without DIMM's (64)					19H0293	X	X	X	|	X	X
X	|	|	|	|	19H0287	4	|	|	|	4	|
8MB Memory JECDE DIMM					19H0288	|	4	|	|	|	4
16MB Memory JECDE DIMM					19H0289	|	|	4	|	|	|
32MB Memory JECDE DIMM					19H0290	X	|	|	|	X	|
4 32MB MRE Populated Card (4x8MB DIMM)					19H0291	|	X	|	|	|	X
64MB MRE Populated Card (4x16MB DIMM)					or 35H8696	|	X	|	|	|	X
256MB MRE Populated Card (4x32MB DIMM)					19H0292	|	|	X	|	|	|
X	|	|	|	|	or 35H8697	|	|	X	|	|	|
X	|	|	|	|							

The following cards are used on ALL SMP machines

NFX Memory Card without DIMM's					93H4357	|	X	|	X	|	X	|	X	|
X	X	X	X	X	19H0294	|	X	|	|	|	|	|	X	|
64MB NFX Populated Card (8x8MB DIMM)					19H0295	|	|	X	|	|	|	|	|	|
128MB NFX Populated card (16x8MB DIMM)					19H0296	|	|	|	X	|	|	|	|	|
256MB NFX Populated Card (16x16MB DIMM)					19H0259	|	|	|	|	X	|	|	|	|
|	X	|	X	|										
512MB NFX populated card (16x32MB DIMM)														

|	|	| X |	|	| X |					
Rio Lobo Memory Card without DIMM's	11H5059|	|	X	|	X	|	X	|	X
X |	|	| X |	|	|					
64MB Rio Lobo Populated Card	40H2668|	|	X	|		|		|	X
128MB Rio Lobo Populated Card	40H2669|	|		|	X	|		|	
X |	|	|	|	|					
256MB Rio Lobo Populated Card	40H2670|	|		|		|	X	|	
|	| X |	|	| X |	|					
8MB Memory JECDE DIMM	19H0287|	|	8	|	16	|		|	8
16|	|	|	|	|					
16MB Memory JECDE DIMM	19H0288|	|		|		|	16	|	
|	| 16 |	|	| 16 |	|					
32MB Memory JECDE DIMM	19H0289|	|		|		|		|	16
|	|	| 16 |	|	| 16 |					

7013-J30 and 7015-R30 Memory P/N Cross Reference Chart

J30 and R30 Only

Feature	Base	128	256	512	64	128	256
512 | 256 | 512 |							
-----> | Conv. Kit |							
4158 | 4061 | 4062 |	9045	4144	4145	4146	4155	4156	4157
_____ _____ _____	_____	_____	_____	_____	_____	_____	_____
4126 | _____ | _____ |					4124	4125	
_____ _____ _____	_____	_____	_____	_____	_____	_____	_____
| _____ | _____ |						4127	
_____ _____ _____	_____	_____	_____	_____	_____	_____	_____
_____ _____							
MRB - used on J30 and R30 only							
_____ _____ _____							
MRB2 Card without DIMM's (64)	19H0283	X				X	
MRB4 Card without DIMM's (256)	19H0284			X			X
8MB Memory DIMM	19H0240	8				8	
32MB Memory DIMM	19H0271			8			8
64MB MR2 Populated Card (8x8MB DIMM)	19H0235	X				X	
256MB MR4 Populated Card (8x32MB DIMM)	19H0286			X			X

The following cards are used on ALL SMP machines

NFX Memory Card without DIMM's	93H4357	X	X	X	X	X	X	X
64MB NFX Populated Card (8x8MB DIMM)	19H0294	X				X		
128MB NFX Populated card (16x8MB DIMM)	19H0295		X				X	
256MB NFX Populated Card (16x16MB DIMM)	19H0296			X				X
512MB NFX populated card (16x32MB DIMM)	19H0259				X			

X |	|	X |							
Rio Lobo Memory Card without DIMM's	11H5059 |	X |	X |	X |	|	X |	X |	X	
|	|	X |	|	|	|	|	|	|	|
64MB Rio Lobo Populated Card	40H2668 |	X |	|	|	|	X |	|	|	|
128MB Rio Lobo Populated Card	40H2669 |	|	X |	|	|	|	X |	|	|
256MB Rio Lobo Populated Card	40H2670 |	|	|	X |	|	|	|	X	|
|	|	X |	|	|	|	|	|	|	|
8MB Memory JECDE DIMM	19H0287 |	8 |	16 |	|	|	8 |	16 |	|	|
16MB Memory JECDE DIMM	19H0288 |	|	|	16 |	|	|	|	16	|
|	|	16 |	|	|	|	|	|	|	|
32MB Memory JECDE DIMM	19H0289 |	|	|	|	16 |	|	|	|	|
16 |	|	|	16 |	|	|	|	|	|	|

The command string:

```
lscfg -vl "mem*" | grep -E "mem|Size"
```

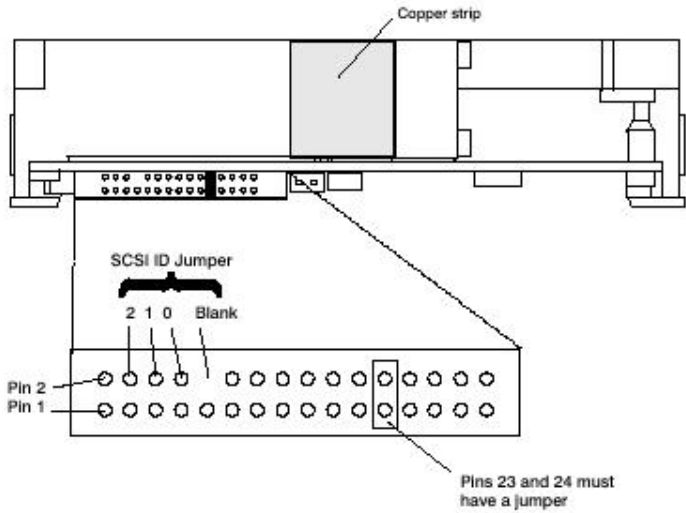
Will show all the memory in the system and the amount of memory (in Mb) in each bank.

An example of the output might be:

```
mem0          00-0A          Memory Card
Size.....0064
Size.....0064
Size.....0000
Size.....0000
mem1          00-0B          Memory Card
Size.....0256
Size.....0256
Size.....0256
Size.....0256
mem2          00-0C          Memory Card
Size.....0128
Size.....0128
Size.....0000
Size.....0000
```

Type A1 DFHS/DFMS 1.1/2.2GB 50pin Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

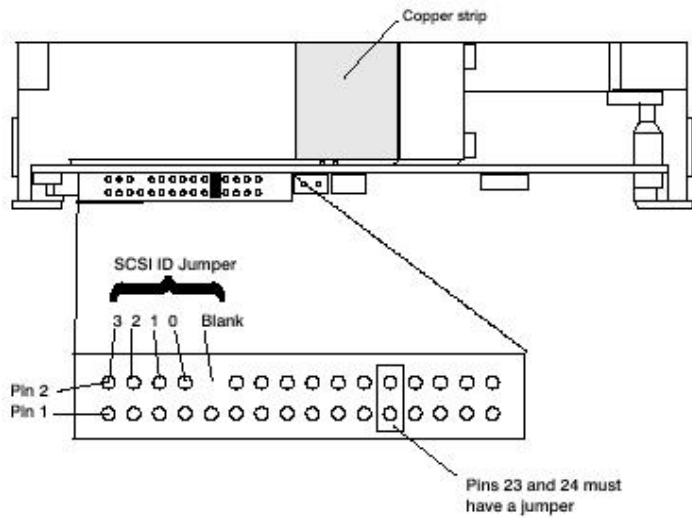
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type A2 DFHS/DFMS 1.1/2.2GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

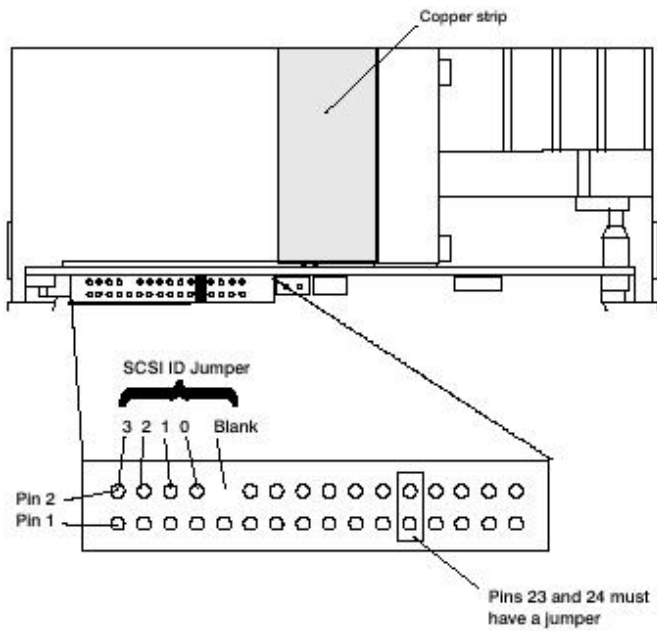
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Type A3 DFHS/DFMS 4.5GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



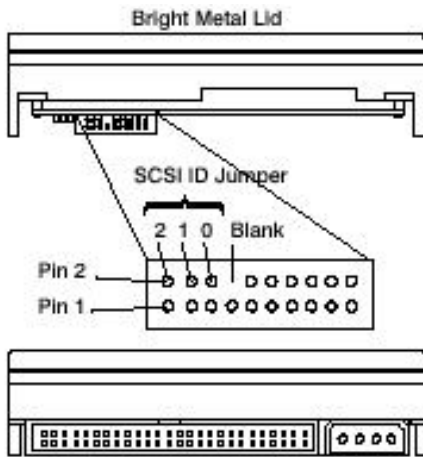
Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off
7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:
¹ = Address 7 is reserved for the adapter.
² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type B1 Quantum 1.1/2.2GB 50-pin Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

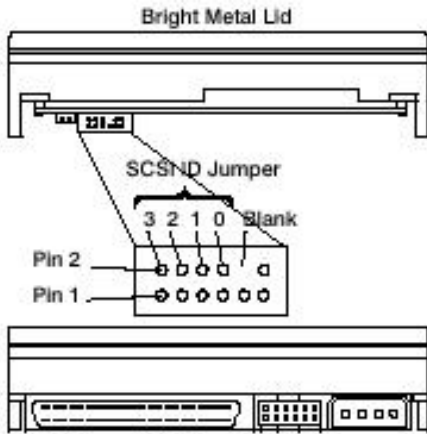
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type B2 Quantum 1.1/2.2GB 68-pin Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

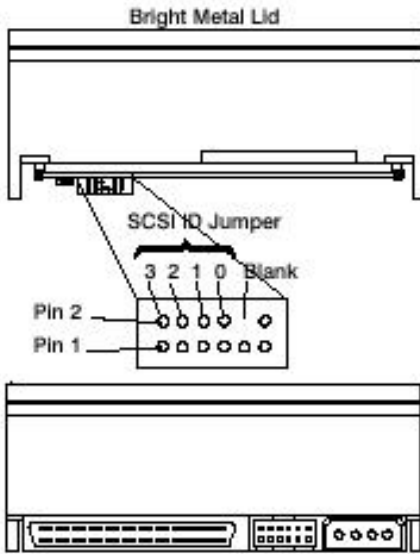
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type B3 Quantum 4.5GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

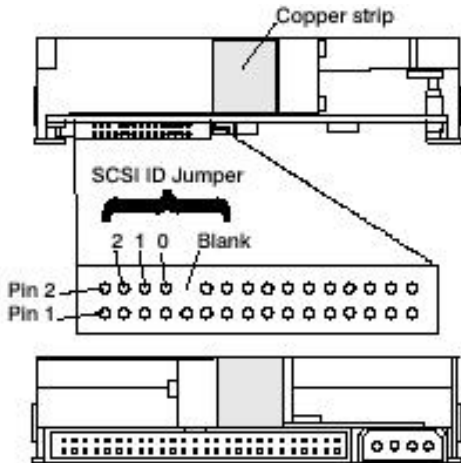
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type C1 DCHS 2.2GB 50-pin Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Jumper 3 is not used.

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Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

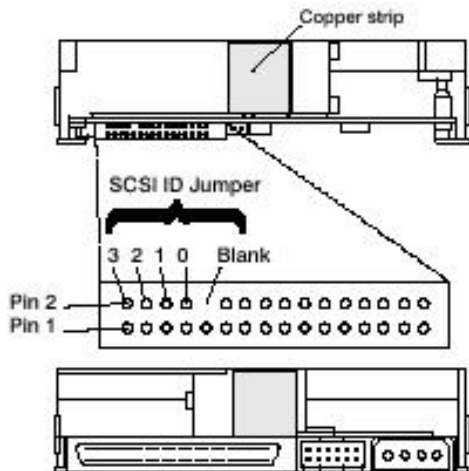
Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

Type C2 DCHS 2.2GB 68-pin Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

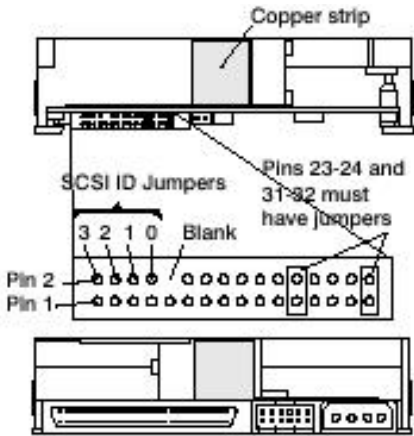
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type C3 DCHS 4.5GB 68-pin Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

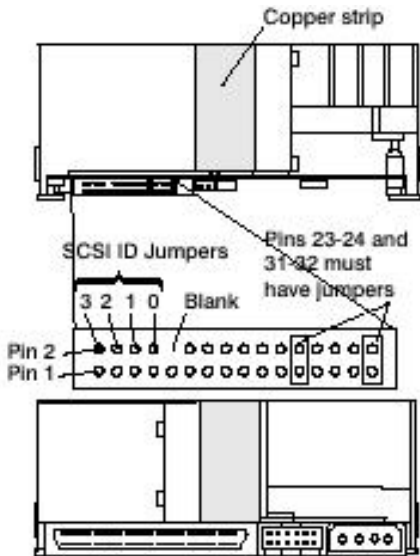
Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type C4 DCCHS 9.1GB Disk Drive



SCSI Address Table for Jumpers Numbered 3 to 0

Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

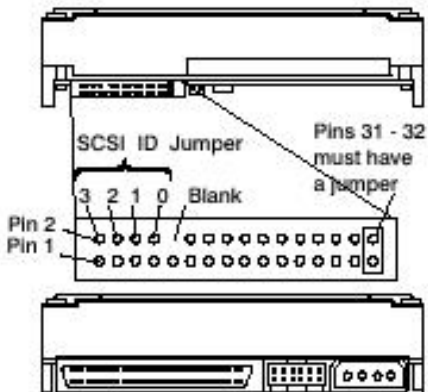
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type D1 Quantum 2.2/4.5GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

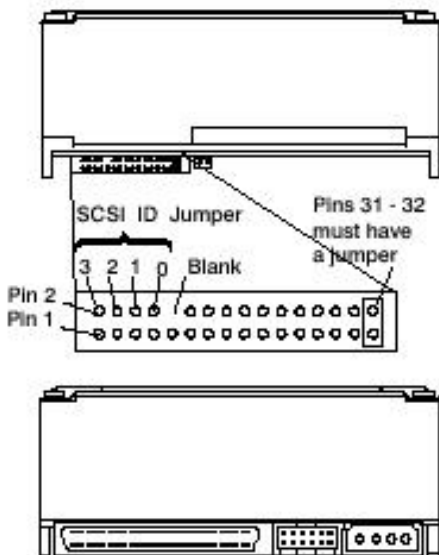
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type D2 Quantum 9.1GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

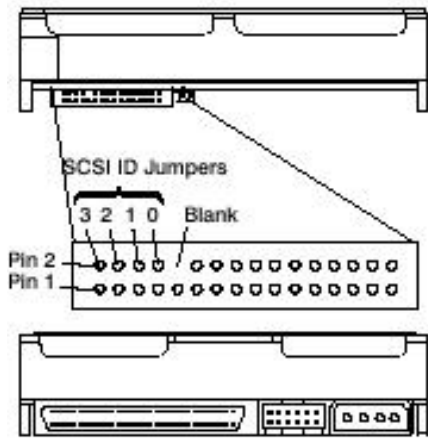
Notes:

- ¹ = Address 7 is reserved for the adapter.
- ² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type E1 DGHS 9.1GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

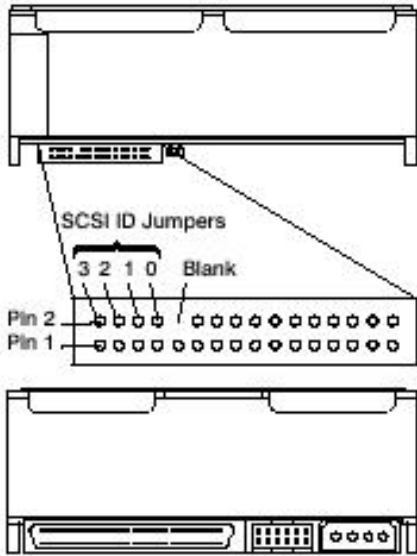
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type E2 DGHS 18.2GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

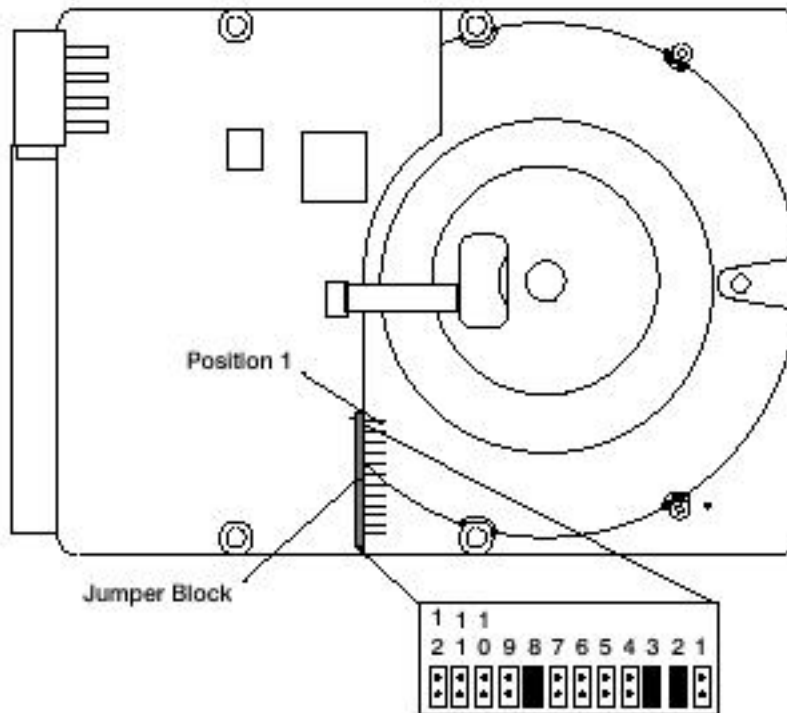
Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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4.5GB Disk Drive - Type F1 - DDRS



- Position 8 MUST have a jumper
- Position 5, 6, 7, 9, 10, 11 and 12 MUST NOT have a jumper.

SCSI Address Table for Jumpers Numbered 4 to 1

Address	Jumper 4	Jumper 3	Jumper 2	Jumper 1 ²
0	Off	Off	Off	Off
1	On	Off	Off	Off
2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6	Off	On	On	Off
7 ¹	On	On	On	Off
8	Off	Off	Off	On
9	On	Off	Off	On
10	Off	On	Off	On
11	On	On	Off	On
12	Off	Off	On	On
13	On	Off	On	On
14	Off	On	On	On
15	On	On	On	On

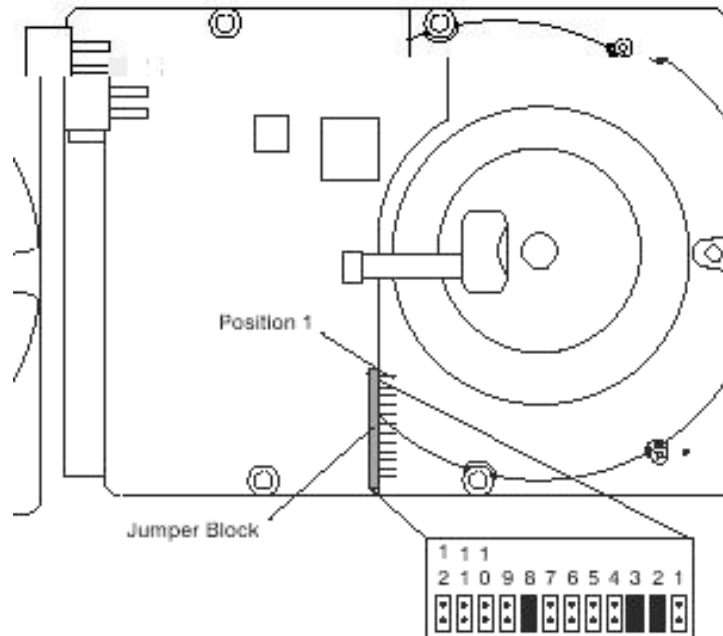
Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 1 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type G1 DNES 4.5/9.1/18.2GB Ultra SCSI Disk Drives



- Position 8 MUST have a jumper
- Position 5, 7, 9, 10, 11 and 12 MUST NOT have a jumper.
- Position 6 is jumpered only when the system requires the device at the end of the SCSI bus to provide termination (non-LVD models only).

SCSI Address Table for Jumpers Numbered 4 to 1

Address	Jumper 4	Jumper 3	Jumper 2	Jumper 1 ²
0	Off	Off	Off	Off
1	On	Off	Off	Off
2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6	Off	On	On	Off
7 ¹	On	On	On	Off
8	Off	Off	Off	On
9	On	Off	Off	On
10	Off	On	Off	On
11	On	On	Off	On
12	Off	Off	On	On
13	On	Off	On	On
14	Off	On	On	On
15	On	On	On	On

Notes:

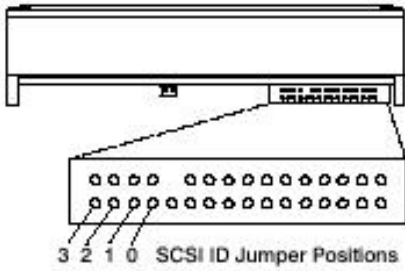
¹ = Address 7 is reserved for the adapter.

² = There is no jumper 1 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

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Type H1 DMVS 9.1GB/18.2GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



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Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

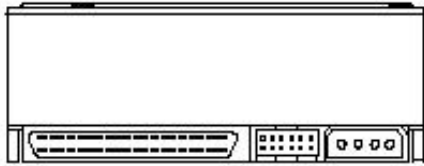
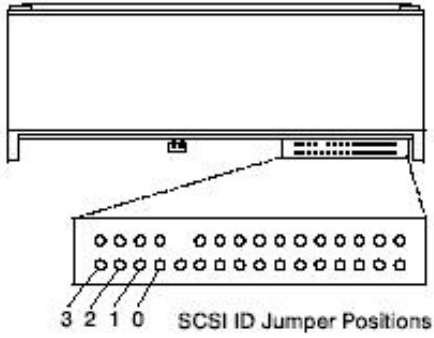
Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

Type H2 DMVS 36.4GB Disk Drive

SCSI Address Table for Jumpers Numbered 3 to 0



Address	Jumper 3 ²	Jumper 2	Jumper 1	Jumper 0
0	Off	Off	Off	Off
1	Off	Off	Off	On
2	Off	Off	On	Off
3	Off	Off	On	On
4	Off	On	Off	Off
5	Off	On	Off	On
6	Off	On	On	Off

7 ¹	Off	On	On	On
8	On	Off	Off	Off
9	On	Off	Off	On
10	On	Off	On	Off
11	On	Off	On	On
12	On	On	Off	Off
13	On	On	Off	On
14	On	On	On	Off
15	On	On	On	On

Notes:

¹ = Address 7 is reserved for the adapter.

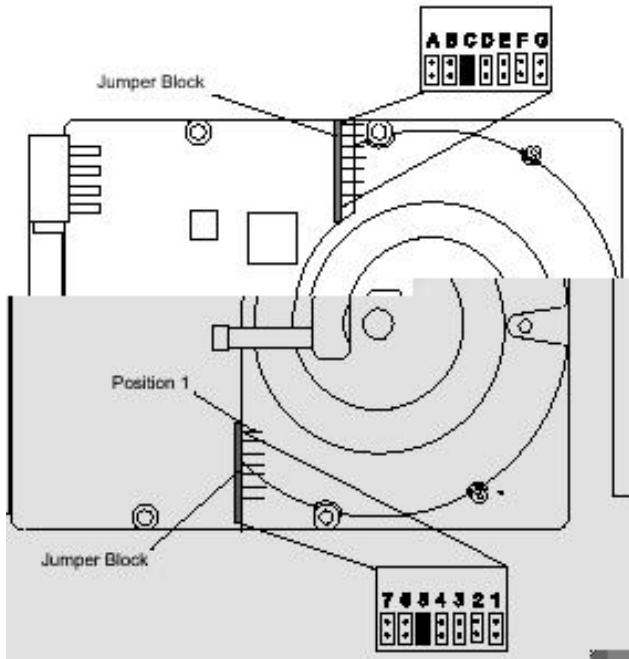
² = There is no jumper 3 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

Page created:

August 01 2002 Bruno Croft

Type I1 DPSS 9.1/18.2GB Disk Drive

SCSI Address Table for Jumpers Numbered 4 to 1



Address	Jumper 4	Jumper 3	Jumper 2	Jumper 1 ²
0	Off	Off	Off	Off
1	On	Off	Off	Off
2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6	Off	On	On	Off
7 ¹	On	On	On	Off
8	Off	Off	Off	On
9	On	Off	Off	On
10	Off	On	Off	On
11	On	On	Off	On
12	Off	Off	On	On
13	On	Off	On	On
14	Off	On	On	On
15	On	On	On	On

Notes:

¹ = Address 7 is reserved for the adapter.

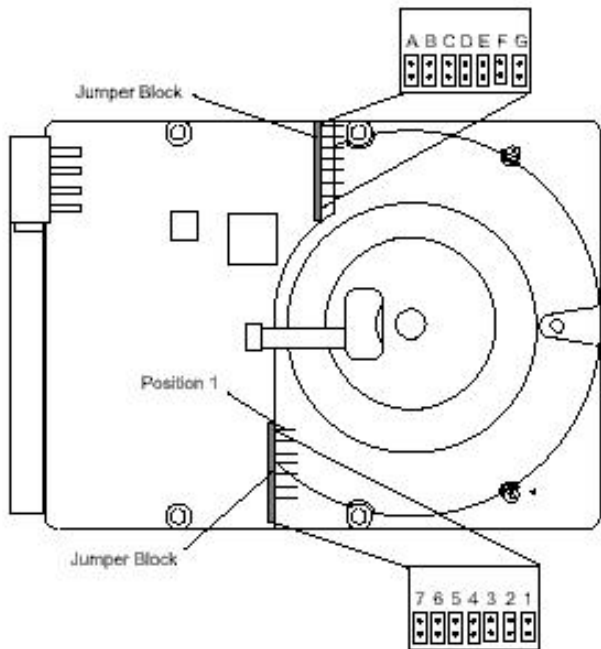
² = There is no jumper 1 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

- 1. Position 1 through 4 are used to set the SCSI address.**
- 2. Position 5 and C must have jumpers installed.**

Created: July 31 2002 Bruno Croft

Type E2 DGHS 18.2GB Disk Drive

SCSI Address Table for Jumpers Numbered 4 to 1



Address	Jumper 4	Jumper 3	Jumper 2	Jumper 1 ¹
0	Off	Off	Off	Off
1	On	Off	Off	Off
2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6	Off	On	On	Off
7 ¹	On	On	On	Off
8	Off	Off	Off	On
9	On	Off	Off	On
10	Off	On	Off	On
11	On	On	Off	On
12	Off	Off	On	On
13	On	Off	On	On
14	Off	On	On	On
15	On	On	On	On

Notes:

¹ = Address 7 is reserved for the adapter.

² = There is no jumper 1 on 50 pin drives, thus SCSI addresses 8 to 15 are not valid.

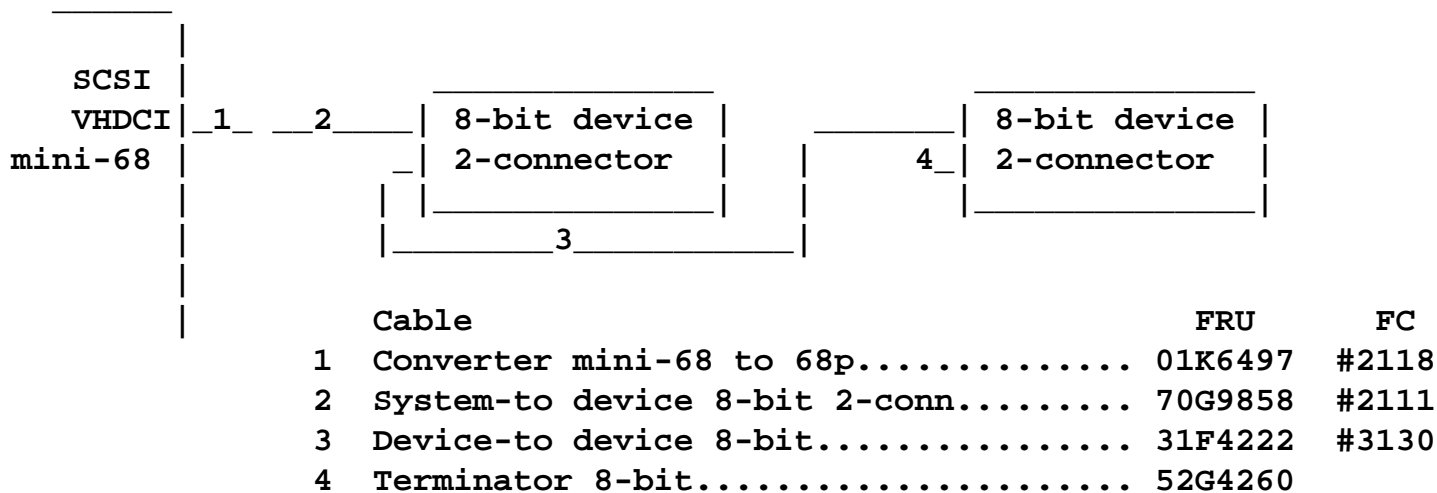
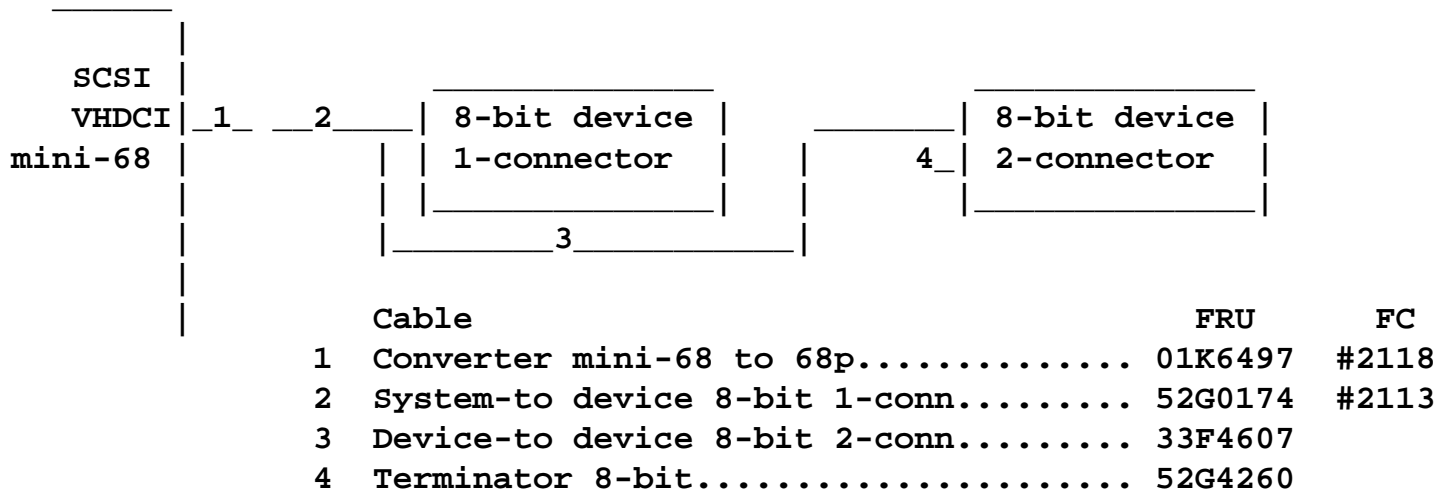
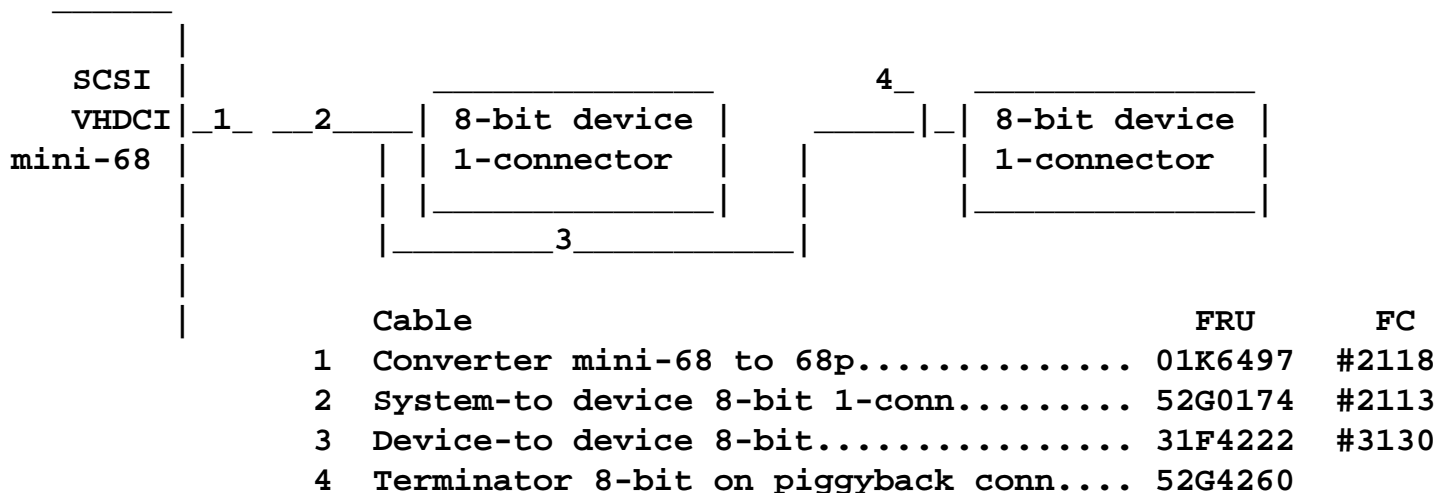
1. Position 1 through 4 are used to set the SCSI address.
2. There is no SCSI bus termination on this disk drive.

Created: July 31 2002 Bruno Croft

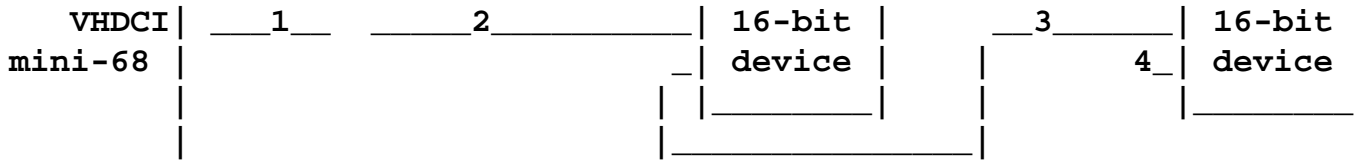
- 1- Data must first be backed up from the disk to be replaced.
- 2- The disk drive must be removed from the system configuration.
- 3- The system must be shutdown.
- 4- After shutdown has completed the 7134 can be powered off.
- 5- The disk drive can then be physically removed from the 7134 and the new drive installed.
- 6- The 7134 is then powered on and the system booted.
- 7- The data should then be restored to the new disk drive.

External cabling with VHDCI

7044-170/270 and other system with VHDCI external connector



SCSI



						meter
1	Converter mini-68 to 68p.....	01K6497	#2118			
2	System-to device 16-bit.....	70G9857	#2115			
3	Device-to device 16-bit.....	52G9921	#2860	#9139		0.3
		52G4291	#2884	#9160		0.6
		7027 HST 52G4233	#2883	#9150		2.5
		7027 HST 40H7351	#3132			6.0
4	Terminator 16-bit.....	92F0432	N/A			

Updated Feb 26 2000

Booting from SSA Disk Drive

Any pSeries or SP node based on the Common Hardware Reference Platform (bootinfo -p must results to chrp) can be booted from an Advanced SerialRAID adapter (FC 6225) or Advanced SerialRAID Plus adapter (FC 6230).

For adapters with a microcode level below 7000 the boot disk must be non-RAID. Adapters with a microcode level above 7000 support booting from any type of SSA resource; RAID or non-RAID. Please note that fastwrite must NOT be enabled on the boot resource for any SSA adapter.

AIX version 4.3.3 onwards supports installing directly from the CD-ROM to SSA disk(s) attached to an Advanced SerialRAID (Plus) adapter.

AIX versions 4.2.1 and 4.3.2 may be installed to SSA disks using AIX's Network Install Manager (NIM).

pSeries Standalone Diagnostics version 4.3.3 onwards contains the SSA RAID configuration software which may be used to configure SSA resources prior to system installation and in the event that a system cannot be booted normally

If mirroring rootvg with SSA disks, it is recommended that each copy of the boot logical volume must be on a separate SSA loop.

It is recommended that a SSA loop that has a disk with the boot logical volume on it can only be attached through a single adapter on a single machine.

The current 6225/6230 will boot from a JBOD* or RAID disk. Microcode below level 7000 will boot off of JBOD ONLY. Microcode level 7000 or above supports booting from both JBOD and RAID disks. However, fastwrite must NOT be enabled on the boot devices.

Q: Can I add SSA disks to rootvg SCSI disk ?

A: When AIX boots it will try to varyon the rootvg Volume Group. For it to be able to do this it must be able to see ALL the disks in the Volume Group and as no device drivers are loaded at this point, it will be unable to see the SSA disks.

Aside 6225/6230, the following SSA adapters also provide booting from SSA but without RAID.

#6214 SSA 4-port Adapter (4-D)

#6216 SSA Enhanced 4-port Adapter (4-G)

#6217 SSA RAID 4-port Adapter (4-I)

#6219 Micro-Channel SSA Multi-Initiator/RAID EL Adapter (4-M)

#6215/#6218 are not supported.

* JBOD=Just bunch of disks.

Created June 2003 Bruno Croft

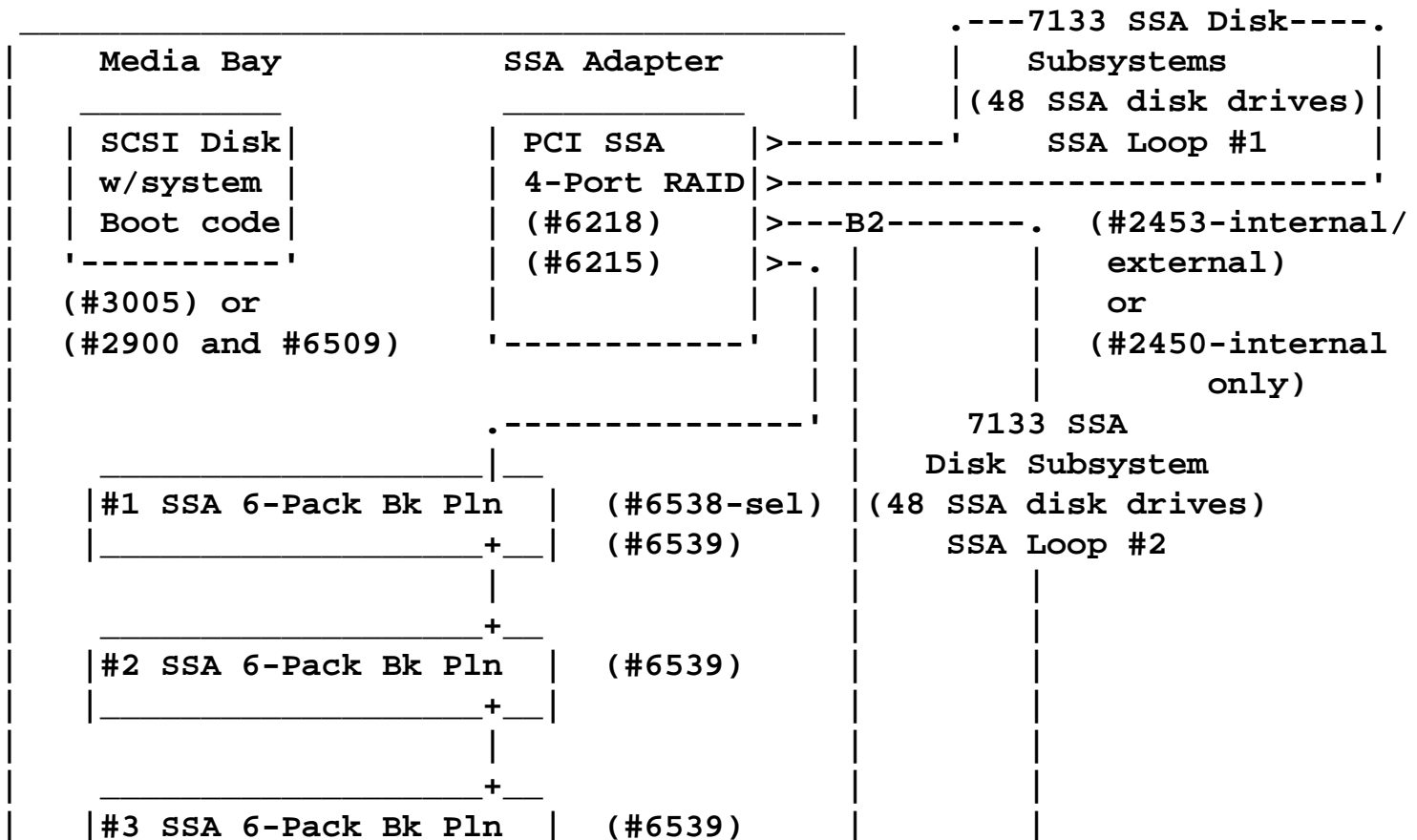
SSA Option 7025-F40

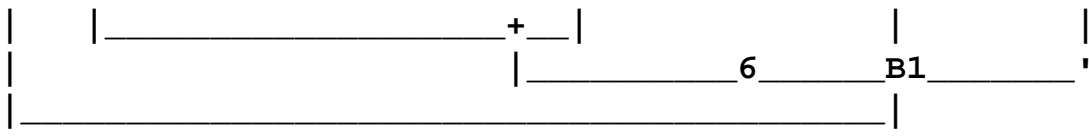
SSA OPTIONS

- #6539 6-Pack SSA Kit - SSA Backplane 93H6321, Chain Cable 93H4341 between backplane only - Power Cable 2-drop 39H9994
- #6549 Power Supply. Provides support for 2nd and 3rd 6-Pack 06H3237, screw 8185165.
- #2450 Cable asm SSA Adapter to backplane..... 93H6308
- #2451 Cable SSA bkpln-to-bckpln daisy chain..... 93H4341
- #2452 Dummy drive..... 59H7210
- (6) #2453 Cable SSA backplane to bulkhead assembly... 93H9822
(to daisy chain with external SSA)

Note: Diagram took from canadian announcement letter A97-0378

RS/6000 System



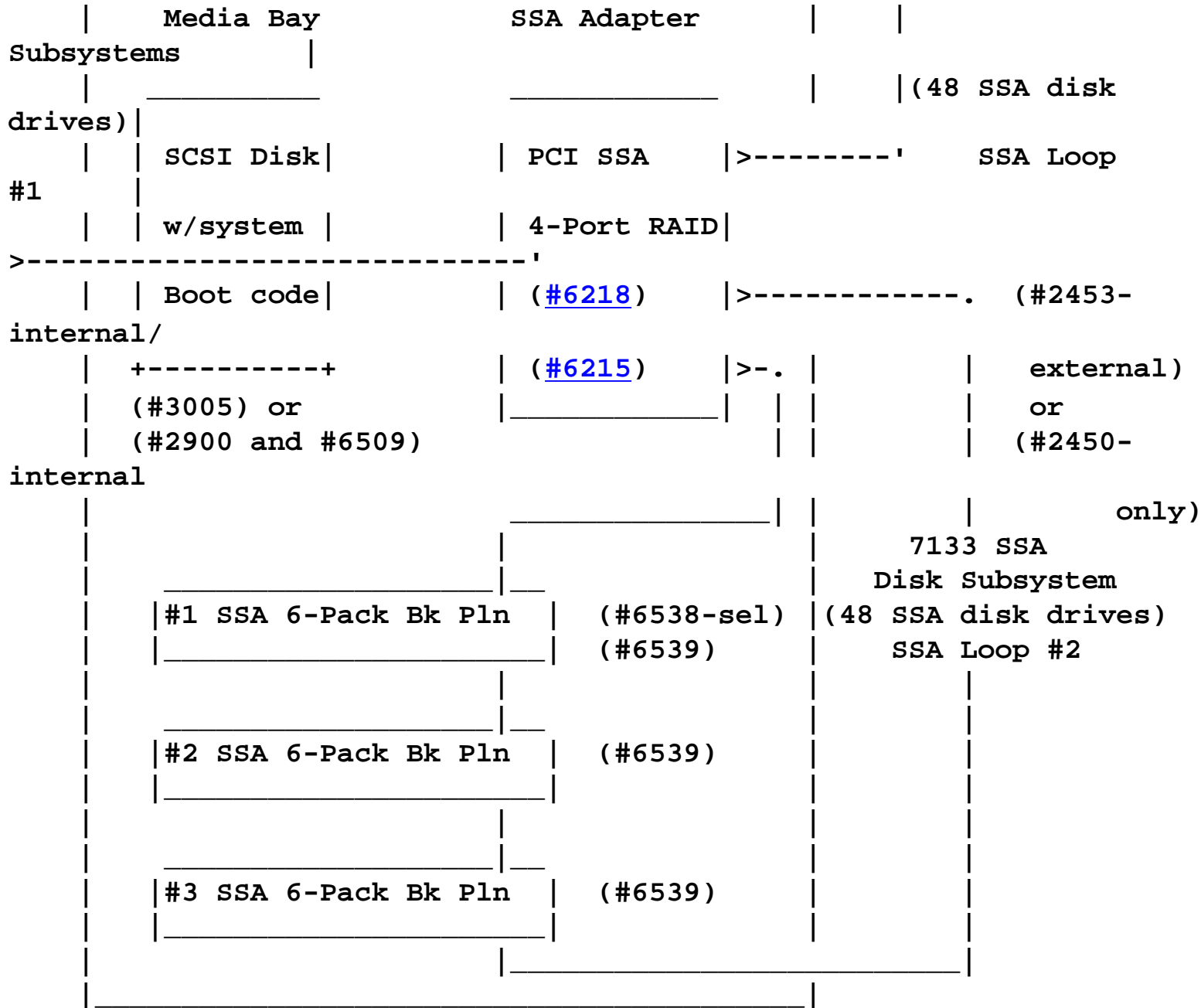


SSA Option 7025-F50

RS/6000 System

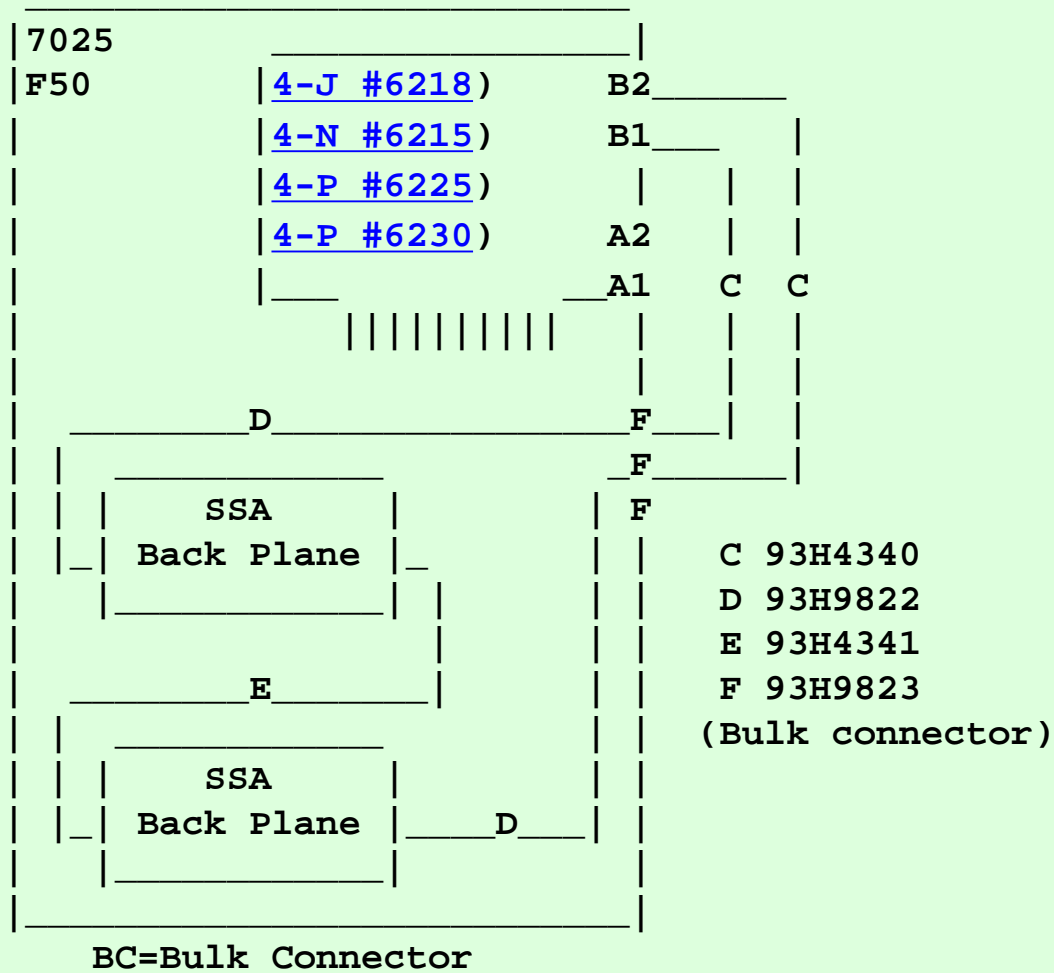
.---7133 SSA

Disk----

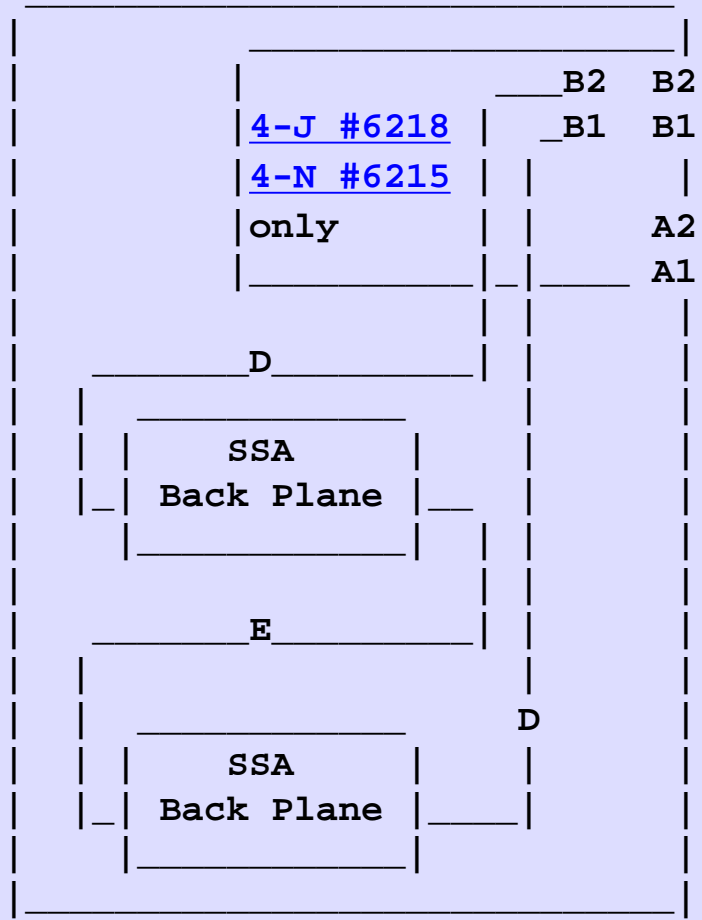


SSA Bulkhead connector Assembly 93H9823
 (missing in F50 Service Guide)

EXTERNAL CABLING SSA adapter to SSA backplane



INTERNAL CABLING SSA adapter to SSA backplane



Since internal used must not connect external B1-B2 !

D 93H9821
E 93H4341

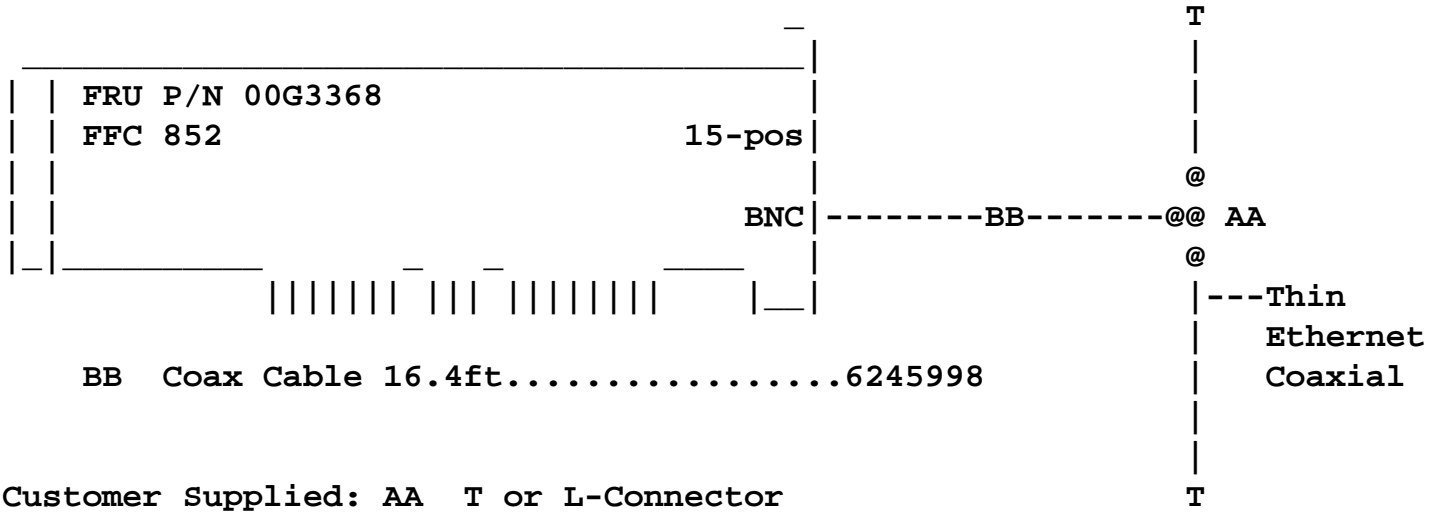
SSA Diagrams provided by Mathias Mueller

Updated Nov 21 2000 by Bruno Croft

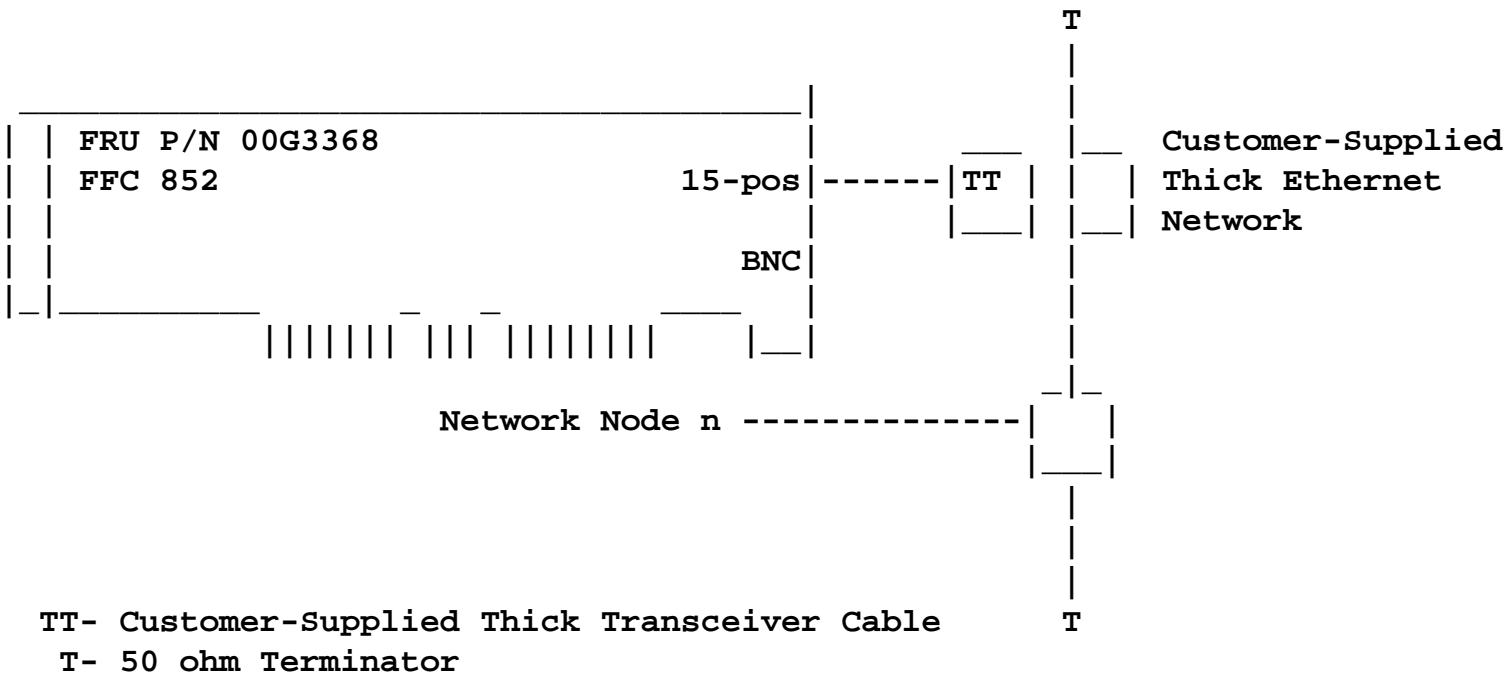
Ethernet High-Performance LAN Adapter Type 2-1 - #2980

- 2 byte(32-bit) Bus Master
 - Streaming Data mode
 - Transmission speed of 10Mbps
 - 16KB RAM data buffering
 - Half-duplex only

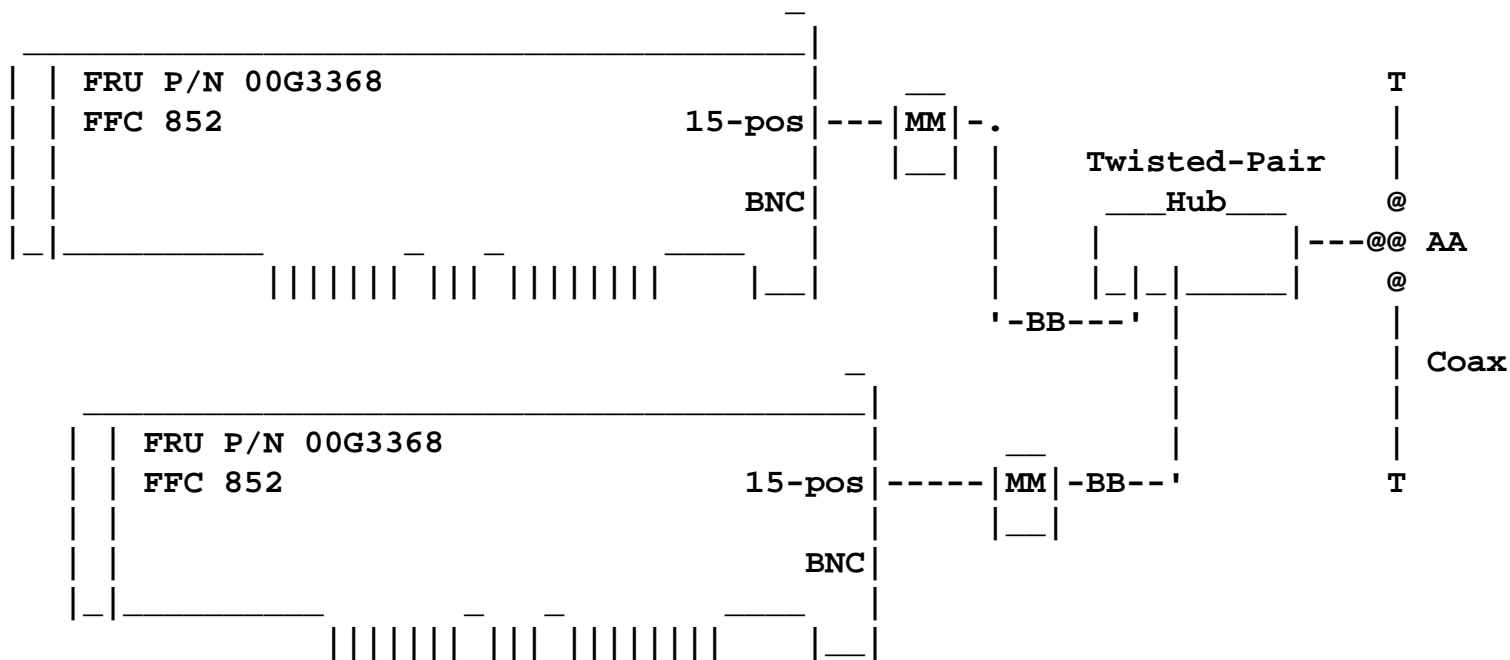
10Base2 (Thin) / Thin Network



10Base5 (Thick) / Thick Network



10Base5 (Thick) / Twisted-Pair Hub / Thin Network



MM- 10BaseT Transceiver #4224..... 02G7429

Wrap Plugs: Thick, D-Shape..... 70F9625

Thin BNC 25ohms..... 70F9626

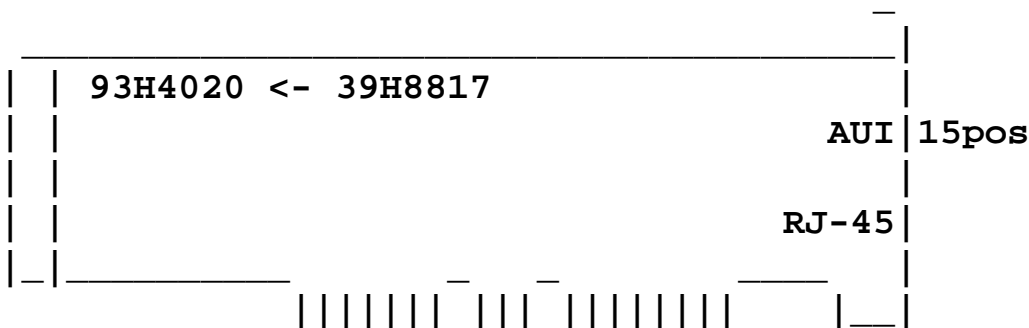
Customer-Supplied: AA- T-connector / T- 50ohm terminator

BB- Cable RJ45 twisted-pair unshielded IEEE 802.3

Ethernet High-Performance LAN Adapter Type 8-U - #2992 A95-1217

Supported: AIX3.2 No
AIX4.1.4/ 4.2/ 4.3 YES
8f95

[More Tech Info \(Restricted\)](#)



Wrap Plugs: Thick, 15-pos..... 70F9625
RJ-45..... 00G2380

Transceivers:..... 10Base2 02G7437
10BaseT 02G7431

Transceiver Cables:..... 02G7434

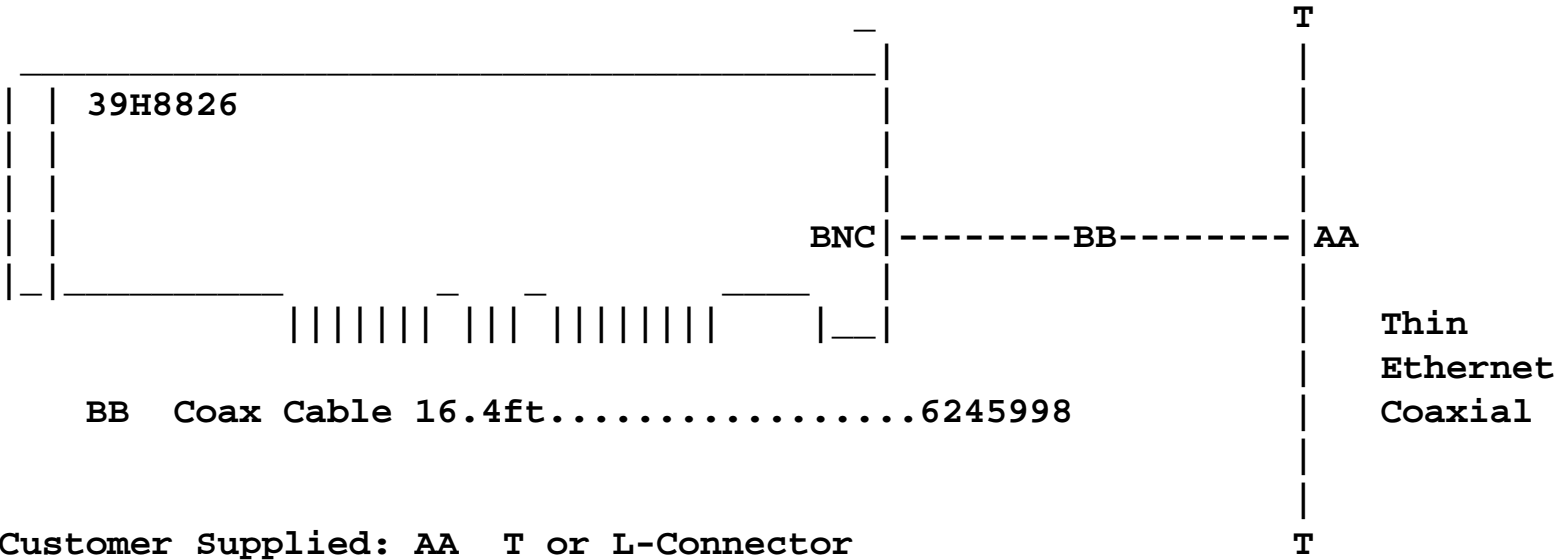
Transceiver Wrap Plugs:
Thin/10Base2... 02G7433
TP/RJ-45..... 00G2380

SPEED: 10MBPS

Updated: Dec 18 2000 by Bruno Croft

Ethernet High-Performance LAN Adapter Type 8-V - #2993 A95-1217

10Base2 (Thin) / Thin Network



Customer Supplied: AA T or L-Connector

T Terminator 50ohm,

Wrap Plugs: Thick, D-Shape..... 70F9625

Thin BNC 25ohms..... 70F9626

SPEED: 10MBPS

**10/100 Mbps Ethernet - SANREMO
9-K #2994 SMP and UNI
9-Q (now replaced by 2994) 2964 UNI Only
A97-0369**

9-Q	07L6605	(93H1505)	#2964	UNI	
9-K	07L6601	(93H8022)	#2994	ALL	
					10BaseT
					RJ-45

80 MB/sec data streaming

Filesets: devices.mca.8ef5.com
 devices.mca.8f62.*

Form Factor..... Type 3

Maximum Number.... 4 per Micro Channel

Cables..... Customer Supplied

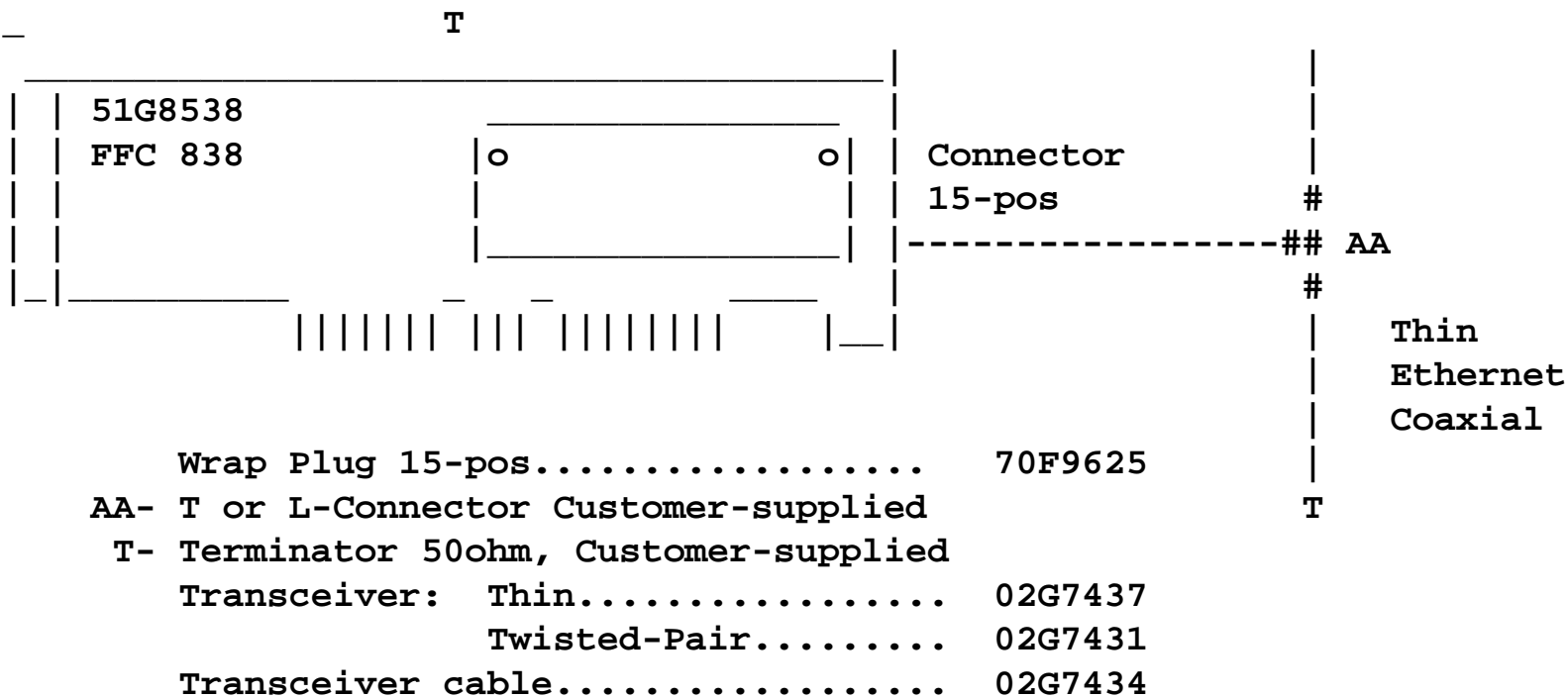
Wrap Plugs RJ-45.. 00G2380

2964: 7006-41T/41W/42T/42W, 7009-C10/C20, 7012-39H/390,
 7013-590/591/595, 7015-R20/R24, 7030-3BT/3CT (no SMP system).

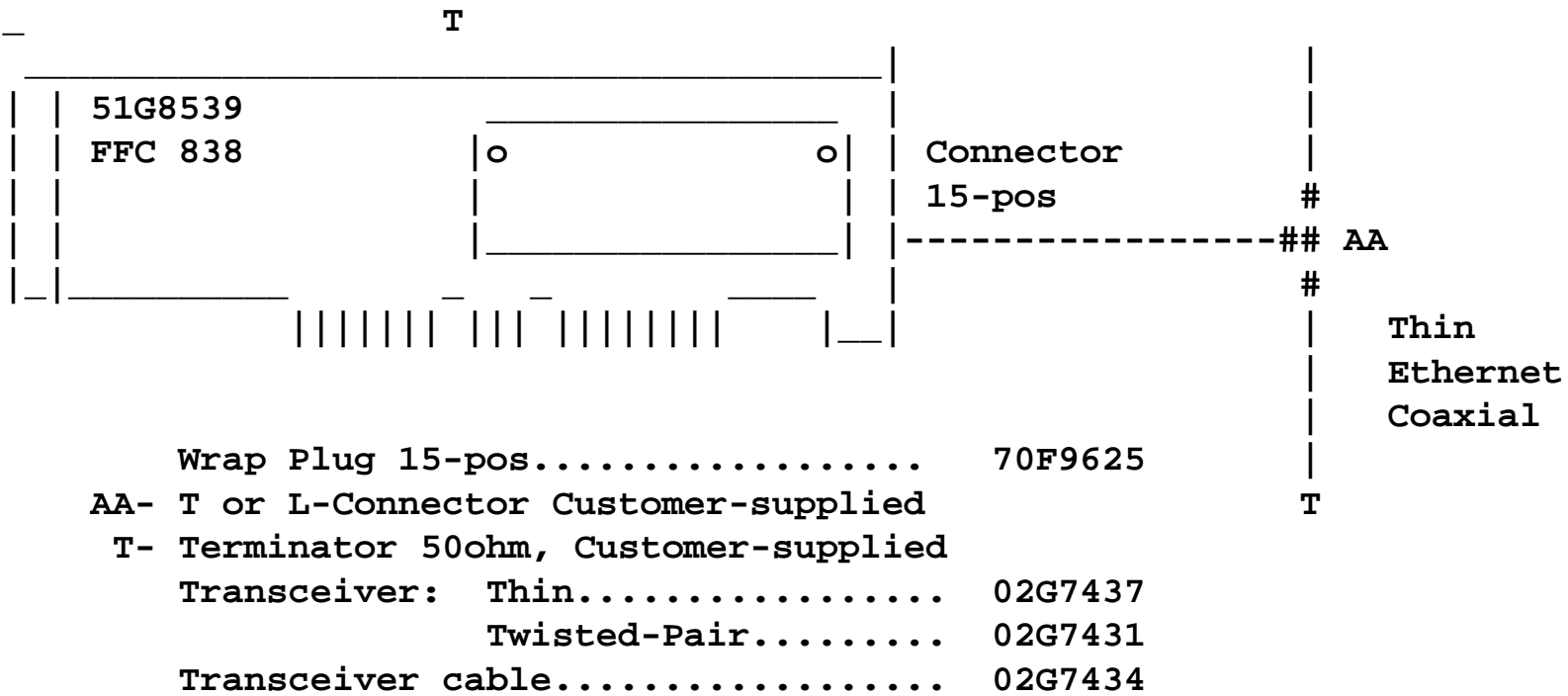
2994: all models

Update: Feb 11 2002 BJ Croft

Network Terminal Accelerator 256 Adapter Type 8-5 - #2402



Network Terminal Accelerator 2048 Adapter Type 8-6 - #2403



Ethernet Riser Cards Thick/Thin for Integrated Ethernet Type 2-8 - #9000/#4221

THICK/THIN RISER CARD

```

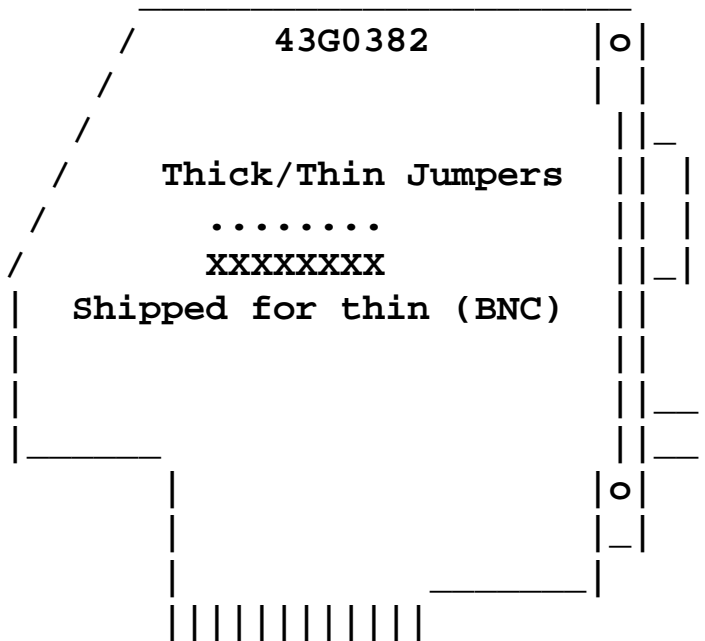
  Thick Position
  | X X X X X X X X |
  | . . . . . . . . |
  |-----|
  Jumpers Up

```

```

  Thin Position
  | . . . . . . . . |
  | X X X X X X X X |
  |-----|
  Jumpers down

```

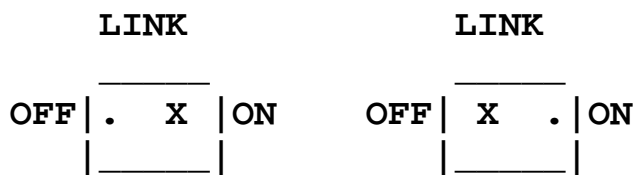


Thick
Connector
10Base5

Thin
Connector
10Base2

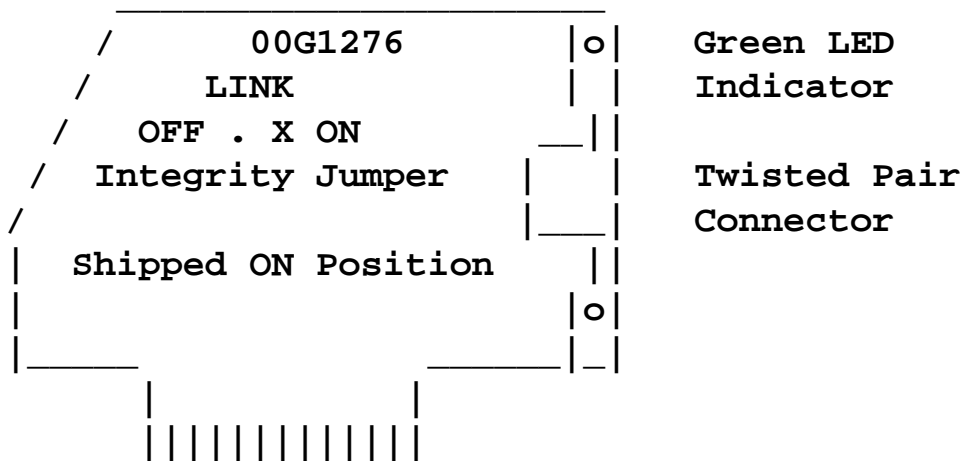
Updated Feb 26 2001 by Bruno Croft

Ethernet Riser Cards Twisted-Pair for Integrated Ethernet Type 2-9 - #9001/#4222



ON= For a IEEE 802.3
10BaseT Network

OFF= If Network is not
10BaseT



- Green Led ON= Properly connected to a 10BaseT network and power on.
 OFF= Possible Problems:
- Twisted-Pair cable defective or not connected.
 - Network not a 10BaseT network.
 - Riser Card not properly installed.

Updated Feb 26 2001 by Bruno Croft

SCSI INFO

Microchannel SCSI controllers for the RS/6000

Type	Controller	FFC	P/N	Feature Code
4-1	SCSI-1 Single-Ended.....	869	51G9425	2835, 2828, 2829
4-2	SCSI-2 Differential.....	889	11H2447/ 43G0176	2420
4-4	SCSI-2 Single-Ended.....	866	11H4779, 52G7509.	2410(int) 2831(etc)
4-6	SCSI-2 Differential Fast/Wide.	890	11H7660/ 11H3599 65G7315	2416, 2413, 9217
4-7	SCSI-2 Fast/Wide.....	890	93H8814/ 11H3600/ 52G4034	2415, 2414, 9216
4-C	SCSI-2 Enhanced Diff Fast/Wide	890	93H7896 52G3380	2412

The following machines have integrated SCSI-2 controller:

7006-41T/41W, 7007-N40, 7009-C10, 7011-25X, 7012-380/390, 7030-3AT/3BT

The following machines have an integrated SCSI-1 controller and a second microchannel SCSI-2 controller standard:

7013-580/58H/590/59H, 7015-970/97B/990/R24

Other SCSI Parts

7011:	Riser Card	51G9900, 00G2721,
	Ferrite (half).....	51G8087
	(2 half + clip).....	8184385
7012:	Cable SCSI Internal (7012-320/32H/32E)....	31G9675, 00G0963, 40F9984
	Cable SCSI Internal (Integrated SCSI)....	43G0779, 31F4482.
	Cable SCSI-2 7012-380/390 (4drop).....	52G4850
	Interposer 68-pin-to-50-pin for 52G4850...	92F2565
	Terminator 16-bit for 52G4850.....	88G3977
	Riser Card SCSI.....	51G9900, 00G2721,
7013:	- Early models (Not 55L, 570, 580)	
	Cable SCSI Internal + Diskette.....	00G0976
	(with bottom SCSI disk drive support)	
	2nd SCSI Cable Internal, 4-drop.....	00G0977

2nd SCSI Cable Internal, 6-drop..... 51G8571
 Cable Internal 2nd SCSI SE 6-drop 8-bit Narrow.. 52G7451
 Cable Internal 2nd SCSI SE 6-drop 16-bit.Wide... 52G4430
 Terminator Wide for 52G4430..... 92F0322

- 570/580/590:

Cable Integrated SCSI Ribbon + Dskt..... 52G7389, 65G7537,
 (without bottom SCSI disk drive support) 65G7538, 51G9921,
 00G3278.
 2nd SCSI Cable Internal, 6-drop..... 51G8571

- 55L:

Cable SCSI Internal..... 52G7448, 65G7539
 SCSI Riser Card 55L..... 51G7351
 Cable Internal SCSI, 2nd SCSI, 4-drop..... 52G7450

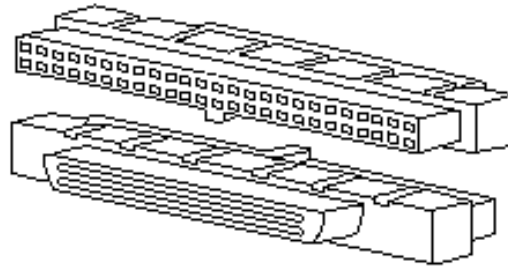
7015:

Cable SCSI Internal 52G7748
 Terminator for 7011-220..... 43G0467

Special Cabling Items:

External cable narrow Adapter to FW devices 59H2891 #2888, #9159,
 #2883, #9164
 (Example: 7204-139 to a #2410 Type 4-4)

Interposer device 8-bit 50-pos to 68-pos Wide Internal Cable... 92F0324
 This interposer is female-female. This is the opposite of 87G4587.



Interposer device 16-bit 68-pos to 50-pos Internal Cable..... 87G4587 FFC 704

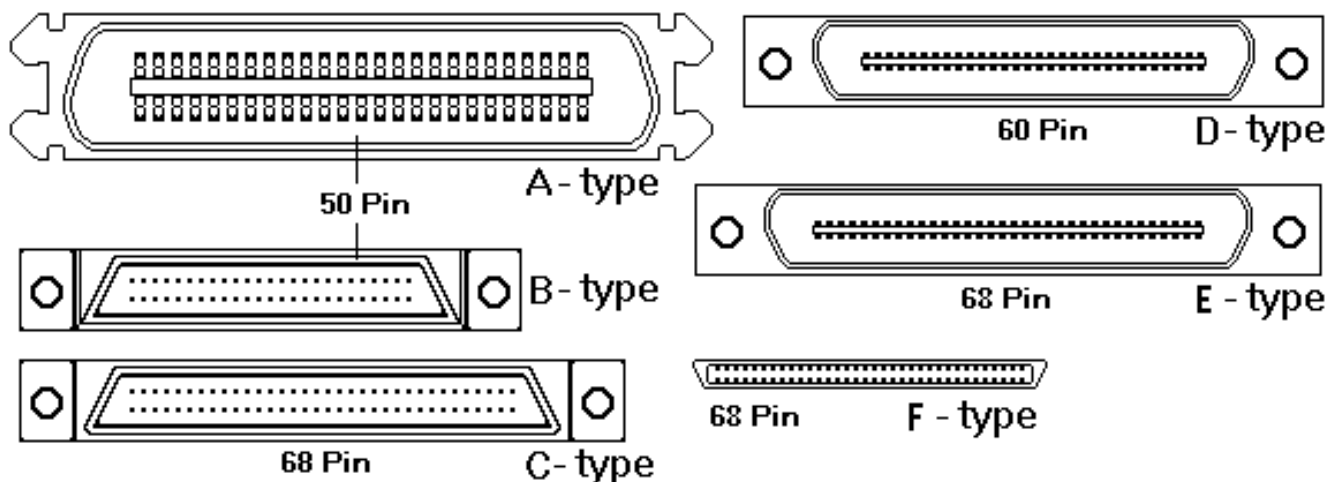
This interposer is male-male and the opposite of 92F0324.

FPT and Non-FPT Chart

FPT	Non-FPT	Description
00G0972 FPT-3	70F9900	Terminator card edge SCSI-1 SE

00G0968 FPT-3	70F9671	Terminator on last external device
31F4221	70F9733	Cable adapter-to-device
31F4222	70F9734	Cable device-to-device

External SCSI - Cable Connector types (male)



Terminator Info

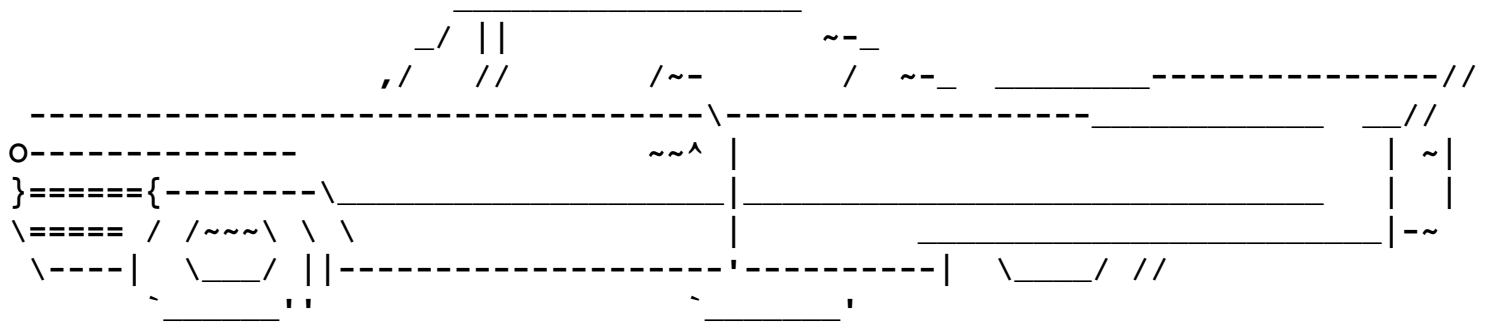
The 52G4260, marked SCSI-2, was released as a common replacement for all of the single-ended terminators. It replaces the FPT3 00G0968, the FPT18 43G0467 and the FPT18+ 51G7736. All of these terminators are still usable; new installations and field replacements will be supplied with the new 52G4260 terminator.

The 52G4259, marked SCSI-2, was released as a common replacement for all of the single-ended terminators. It replaces the FPT-3 00G2223, 51G7737 and the FPT18 43G0378. All of these terminators are still usable; new installations and field replacement will be supplied with the new 52G4259 terminator.

External SCSI Devices

Machine Type/Model	Bus Width	SE or Diff	Ports
7203-001	8-bit	Single-Ended	Single
7204-001	8-bit	Single-Ended	Single
7204-010	8-bit	Single-Ended	Dual
7204-112		Single-Ended	Dual
7204-215	8-bit	Differential	Dual
7204-315	16-bit	Differential	Dual
7204-317	16-bit	Differential	Dual
7204-320	8-bit	Single-Ended	Single
7204-325	16-bit	Differential	Dual

7206-001	8-bit	Single-Ended	Single
7206-005	8-bit	Single-Ended	Dual
7207-001	8-bit	Single-Ended	Single
7207-011	8-bit	Single-Ended	Single
7207-012	8-bit	Single-Ended	Single
Machine Type/Model	Bus Width	SE or Diff	Ports
7208-001	8-bit	Single-Ended	Single
7208-011	8-bit	Single-Ended	Single
7209-001	8-bit	Single-Ended	Single
7209-002	8-bit	Single-Ended	Dual
7210-001	8-bit	Single-Ended	Single
7210-005	8-bit	Single-Ended	Dual
7210-010	8-bit	Single-Ended	Dual
7331-105	16-bit	Single-Ended	Dual
7331-205	16-bit	Differential	Dual
7332-005	8-bit	Single-Ended	Dual
7336-205	16-bit	Differential	Dual



last update 06/11/98

SCSI INFO

External SCSI Devices

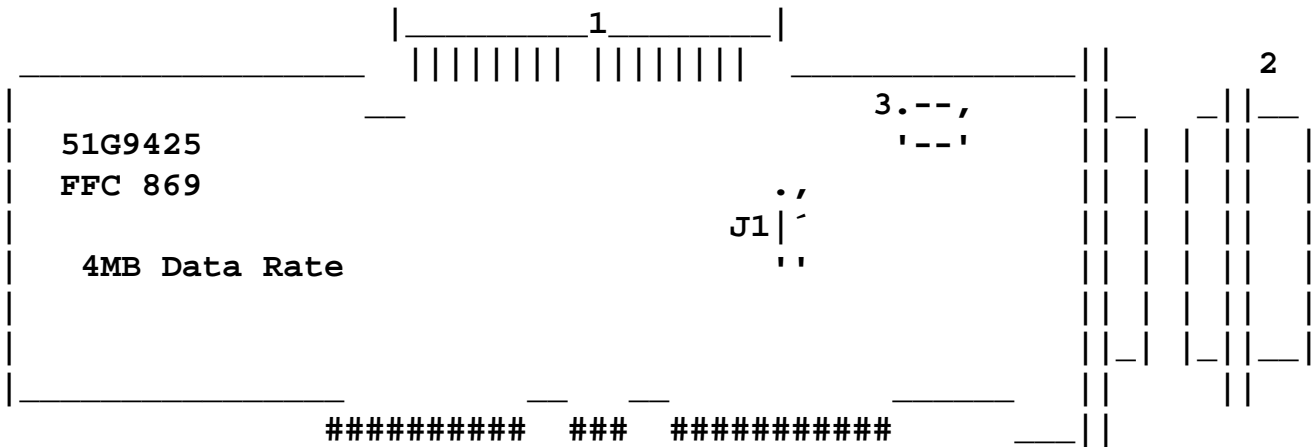
MACHINE TYPE/MODEL	Bus Width	SE or DIFF	Connector Number
7131-105	16-Bit	Single-Ended	Single
7131-105	16-Bit	Differential	Dual
7203-001	8-Bit	Singled-Ended	Single

MACHINE TYPE /MODEL	Bus Width	SE or DIFFERENTIAL	Connector Number
7204-001	8-bit	Single-Ended	Single
7204-010	8-bit	Single-Ended	Dual
7204-112	16-bit	Single-Ended	Dual
7204-113	16-bit	Single-Ended	Dual
7204-114	16-bit	Single-Ended	Dual
7204-139	16-bit	Single-Ended	Dual
7204-215	8-bit	Differential	Dual
7204-315	16-bit	Differential	Dual
7204-317	16-bit	Differential	Dual
7204-320	8-bit	Single-Ended	Single
7204-325	16-bit	Differential	Dual
7204-339	16-bit	Differential	Dual
7206-001	8-bit	Single-Ended	Single
7206-005	8-bit	Single-Ended	Dual
7207-001	8-bit	Single-Ended	Single
7207-011	8-bit	Single-Ended	Single

7207-012 7207-315	8-bit 16-bit	Single-Ended Differential	Single Single
7208-001 7208-011	8-bit 8-bit	Single-Ended Single-Ended	Single Single
7209-001 7209-002 7209-003	8-bit 8-bit 8-bit	Single-Ended Single-Ended Single-Ended	Single Dual Dual
7210-001 7210-005 7210-010 7210-015	8-bit 8-bit 8-bit 8-bit	Single-Ended Single-Ended Single-Ended Single-Ended	Single Dual Dual Dual
7331-105 7331-205 7331-305	16-bit 16-bit 16-bit	Single-Ended Differential Differential	Dual Quad Quad
7332-005	8-bit	Single-Ended	Dual
7336-205	16-bit	Differential	Quad

* With SE/DIFF card

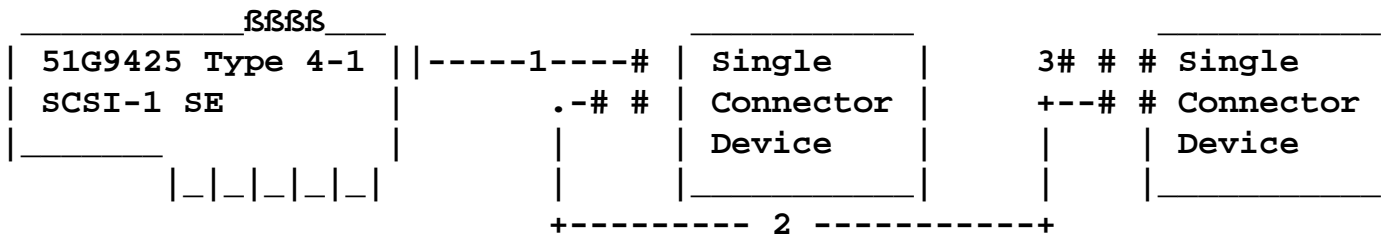
SCSI-1 Single-Ended Int/Ext I/O Controller Type 4-1 - #2835/#2828/#2929



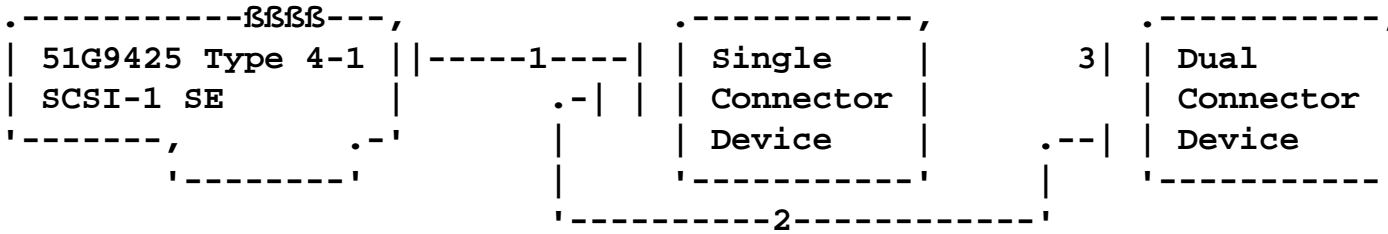
Part Description	PN
1- 50-Position Internal Card Edge Terminator	00G0972
2- 60-Position External Terminator.....	15F6743
3- Fuse 1A.....	40F9736

====	
51G9425 Type 4-1	# 1 # # Single
SCSI-1 SE	# # Connector
	2# # # Device
#####	

Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 1-Connector Device	#2832	31F4221	1.57m
2- Terminator SCSI 50-pos low-density FPT18C (No longer manufactured but usable FPT-3)		52G4260 00G0968	



Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 1-Connector Device	#2832	31F4221	1.57m
2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos low-density FPT18C (No longer manufactured but usable FPT-3)		52G4260 00G0968	

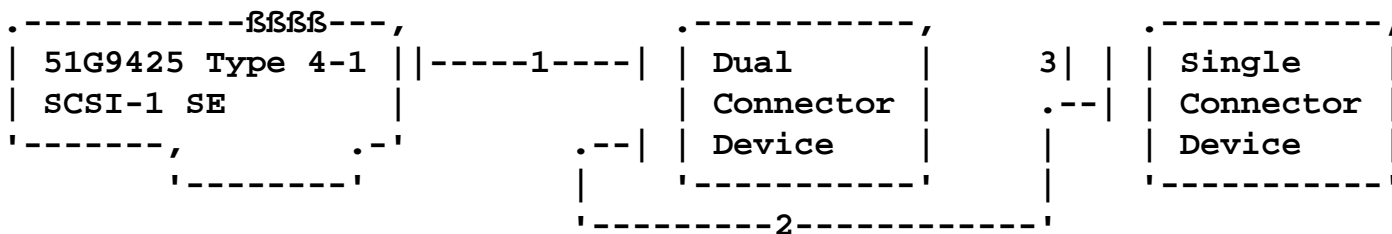


Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 1-Connector Device	#2832	31F4221	1.57m
2- Cable Device-to-Device For 2-Connector Device	#2840	33F4607	0.66m
3- Terminator SCSI 50-pos low-density FPT18C (No longer manufactured but usable FPT-3)		52G4260 00G0968	

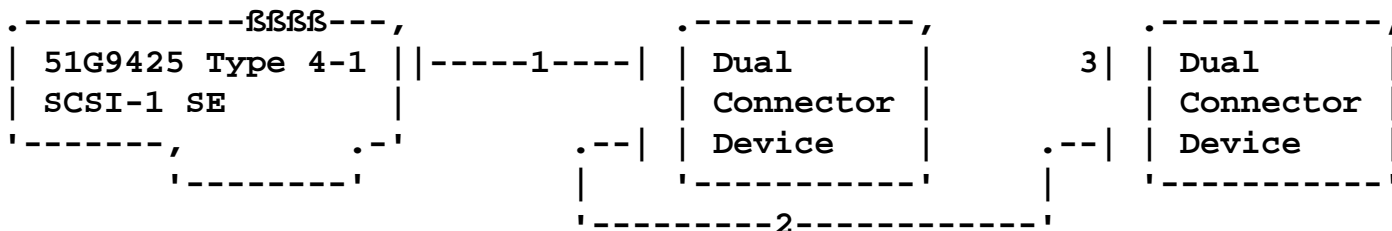




Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device	#2837	33F4606	1.5m
2- Terminator SCSI 50-pos low-density FPT18C (No longer manufactured but usable FPT-3)		52G4260 00G0968	



Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device	#2837	33F4606	1.5m
2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos low-density FPT18C (No longer manufactured but usable FPT-3)		52G4260 00G0968	



52G7509 Type 4-4 SCSI-2 SE	1	Dual Connector Device
	2	

Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device	#2838	8191425	1.5m
2- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A

52G7509 Type 4-4 SCSI-2 SE	1	Dual Connector Device	3	Single Connector Device
	2			

Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device	#2838	8191425	1.5m
2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A

52G7509 Type 4-4 SCSI-2 SE	1	Dual Connector Device	3	Dual Connector Device
	2			

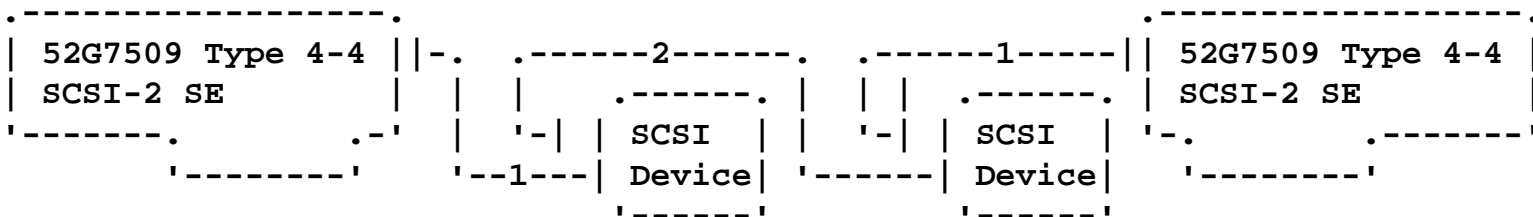
'-----' | '-----' | '-----'
 |-----2-----|

Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device		#2838	8191425 | 1.5m
2- Cable Device-to-Device For 2-Connector Device		#2840	33F4607 | 0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)			52G4260 | 51G7736 | N/A

High Availability

1st RS/6000

2nd RS/6000



NOTES: Maximum 2 External SCSI Devices.

Part Description	FC	PN	Length
1- Cable Passthrough Terminator	#2914	51G8568	1.57m
2- Cable Device-to-Device	#3130	31F4222	0.66m

Note: The passthrough terminators cables are no longer available except through RPQ 8A0758. The recommended high-availability SCSI configuration is the SCSI-2 differential controller and subsystems.

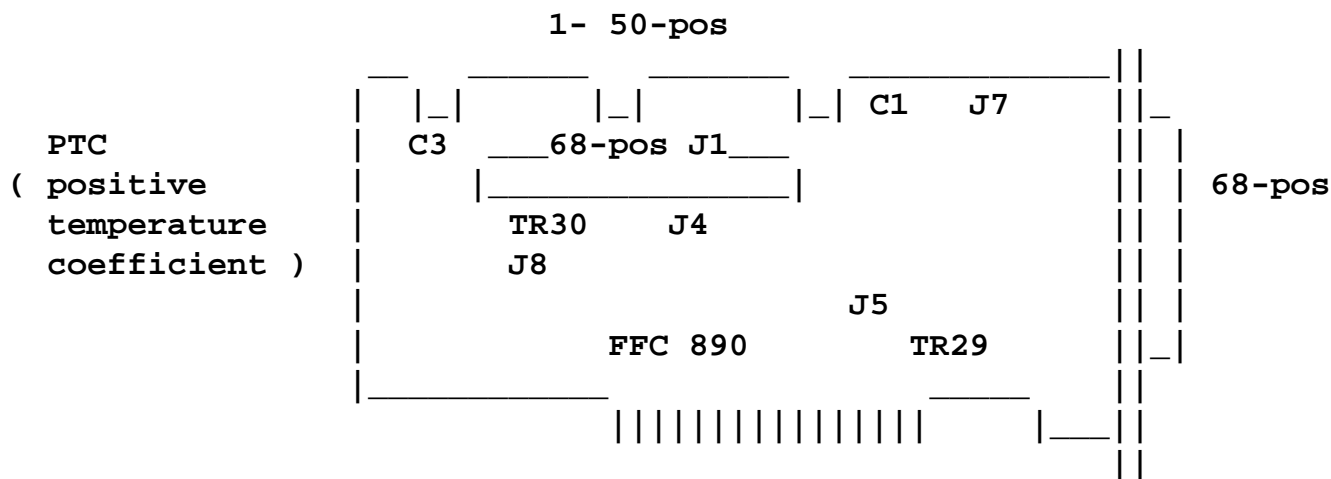
SCSI-2 Single-Ended Fast/Wide Adapter/A

Type 4-7 - #2414/2415/9216

Driver AIX3.2: APAR IX42624 in PTF U429285

Diags AIX3.2: APAR IX42623 in PTF U429283

Note: TO GET LATEST FIRMWARE, SEE ECA192 package on AIXTOOLS



FRU 93H8814 <- 11H3600 <- 52G4034

TR29 External Bus PTC resistor (>1/2 ohm)

C1 (normal = hundreds of ohms fault= < 10 ohms)

TR30 Internal Bus PTC resistor (>1/2 ohm)

C3 (normal = hundreds of ohms fault= < 10 ohms)

No terminator on card edge if no internal device.

No terminator on card connector if no external device.

* Internal and external separate buses

* Either bus may be connected as wide (16-bit) or narrow (8-bit) bus.

WIDE BUS (16-bit) - Uses 68 conductor cable.

- Can attach either ALL wide (16-bit) or ALL narrow (8-bit) devices to either bus

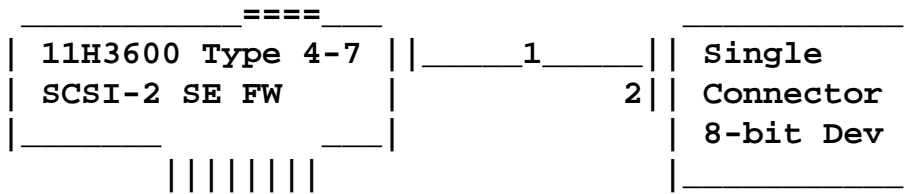
- Narrow devices will only have narrow (8-bit) performance.

- 4 address bits, allowing for 16 unique addresses.

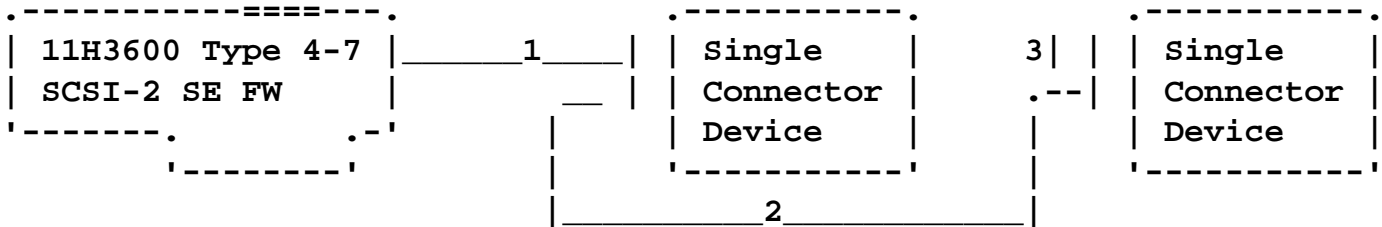
NARROW BUS (8-bit) - Uses a 50 conductor cable.

- Can only attach to narrow devices.
- 3 address bits, allowing for 8 unique addresses.

- * 7013 and 7015 boxes do not allow mixing wide and narrow devices on the same bus.
- * 7012 models before the 380 cannot boot from disk attached on this adapter.
- * Only one internal SCSI cable is supported inside a 7012 system.

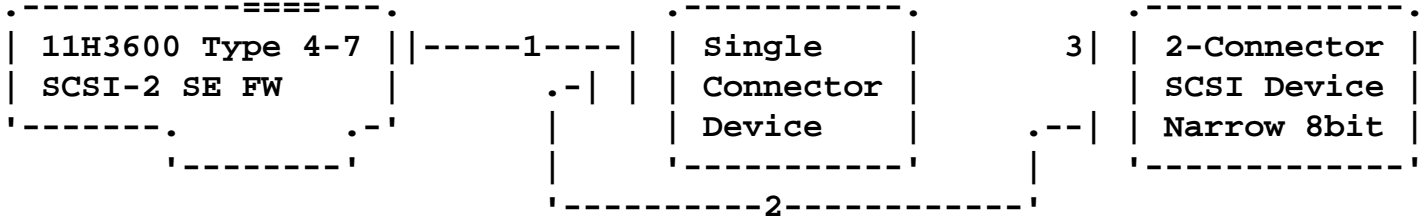


Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 1-Connector Device 8-bit	#2439	52G4231	1.5m
2- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A

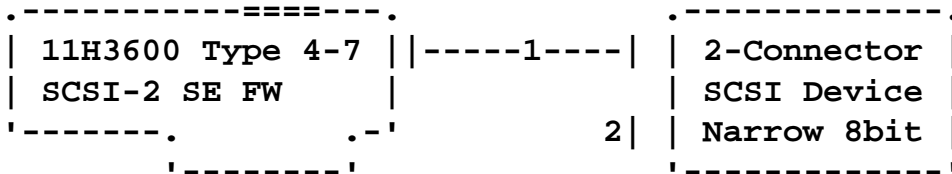


Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 1-Connector Device 8-bit	#2439	52G4231	1.5m
2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C		52G4260	

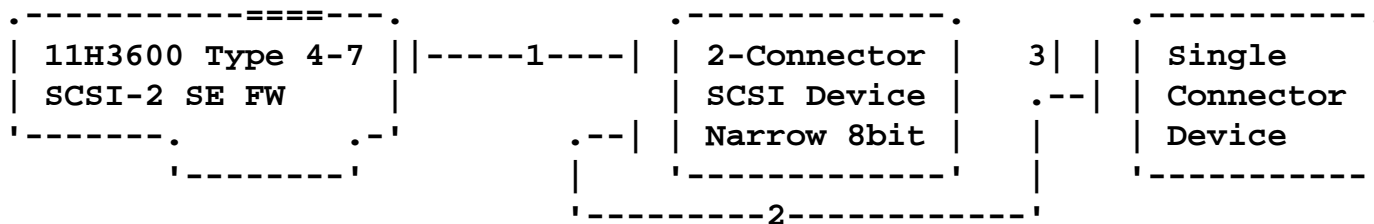
(No longer manufactured but usable FPT18+)		51G7736	N/A
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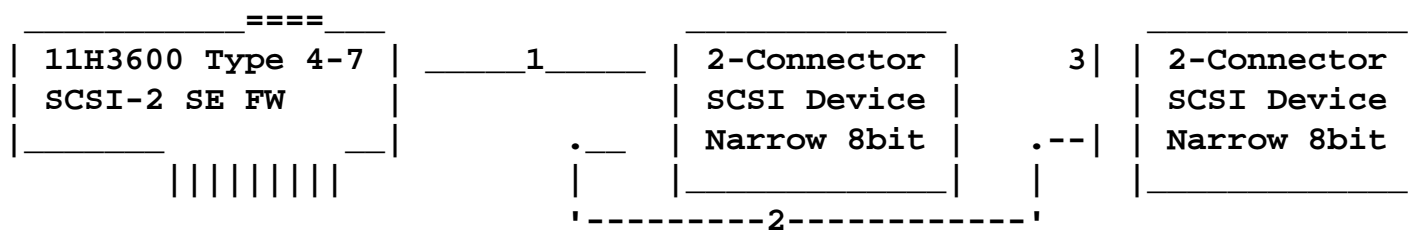
Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 1-Connector Device 8-bit	#2439	52G4231	1.5m
2- Cable Device-to-Device	#2840	33F4607	0.7m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A



Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device Narrow	#2437	92F2559	1.5m
2- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A



Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device Narrow	#2437	92F2559	1.5m
2- Cable Device-to-Device For 1-Connector Device	#3130	31F4222	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A



Part Description	FC	P/N	Length
1- Cable Controller-to-Device: For 2-Connector Device narrow	#2437	92F2559	1.5m
2- Cable Device-to-Device For 2-Connector Device narrow	#2840	33F4607	0.66m
3- Terminator SCSI 50-pos lo-density FPT-18C (No longer manufactured but usable FPT18+)		52G4260 51G7736	N/A

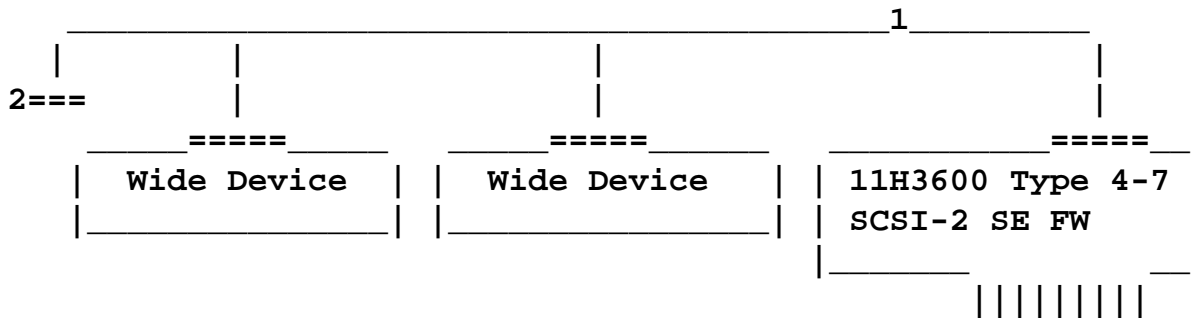
====			
11H3600 Type 4-7 SCSI-2 SE FW	1	2-Connector SCSI Device Wide 16bit	
	2		

Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device Wide	#2435	52G9501	1.5m
2- Terminator SCSI 68-pos hi-density Boulay		52G9907	

====			
11H3600 Type 4-7 SCSI-2 SE FW	1	2-Connector SCSI Device Wide 16bit	3
			2-Connector SCSI Device Wide 16bit
	2		

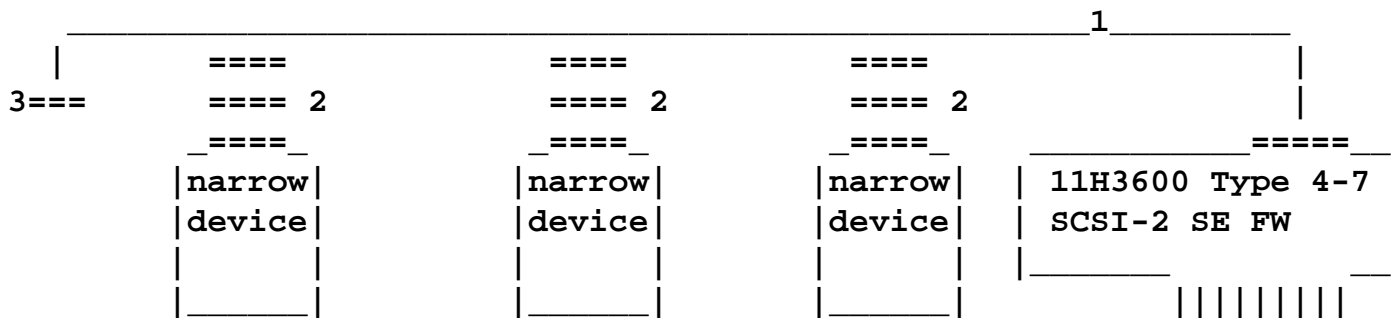
Part Description	FC	PN	Length
1- Cable Controller-to-Device: For 2-Connector Device Wide	#2435	52G9501	1.5m
2- Cable Device-to-Device For 2-Connector Device wide	9139/ #2860	52G9921	0.5m
3- Terminator SCSI 68-pos hi-density Boulay		52G9907	

Optional Internal Cabling



Cable Description	FC	P/N for Mach/Type
1- Internal 6-drop (16-bit wide) 1.57m..... Terminator included	2431	52G4430 7013-5XX
Internal 3-drop (16-bit wide) 0.77m..... Terminator included	2434	65G8085 7006/7009
2- Terminator: wide		88G3977

Optional Internal Cabling



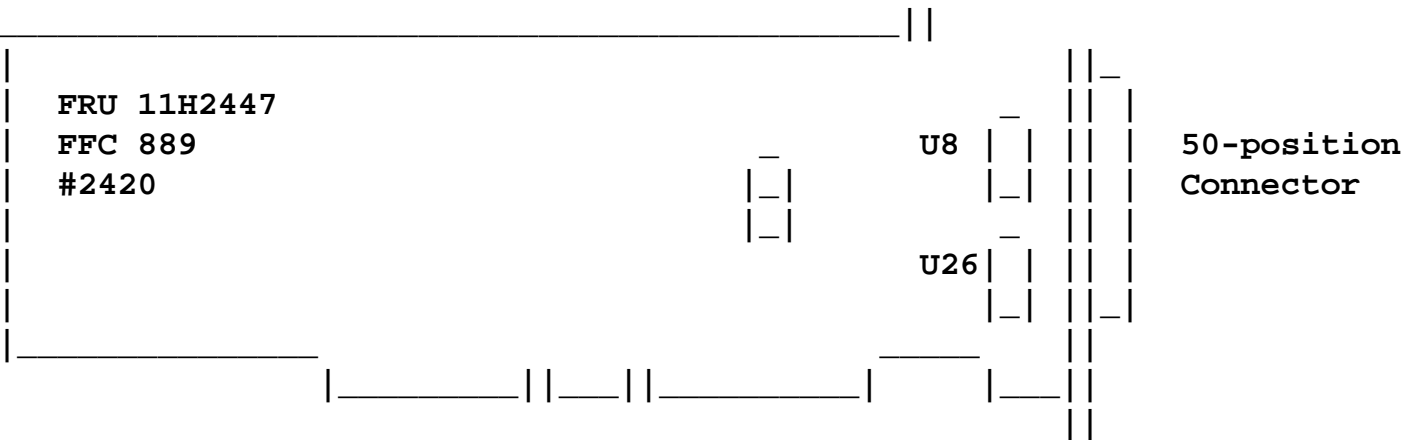
Cable Description	FC	P/N for Mach/Type
1- Internal 6-drop (8-bit narrow) 1.86m. Terminator included	2430	52G7451 7013-5XX
Internal 4-drop Cable 68wire		52G4850 7012-380/390
2- 68 pin to 50 pin interposer.....		92F2565, 7012/7030 (92F0234)
3- Terminator: narrow.....		built-in

Maximum Bus Cable Length

1. Specified to 3m (9.9ft)
2. 3.75m (12.3ft) if using 52G4231/92F2559 and 31F4222/33F4607 and 4 supported device in 7011/7012/7013/7030.
3. 5.04m (16.53ft) if using 52F4232/88G5755 to attach 9334-500 to a 7011/7012/7013/7030.
4. 5.9m (19.3ft) if using 52G4235 to attach 9334-010 to a 7015.

Updated: Oct 17 2000 by Bruno Croft

SCSI-2 Differential 8-bit External I/O Controller Type 4-2 - #2420

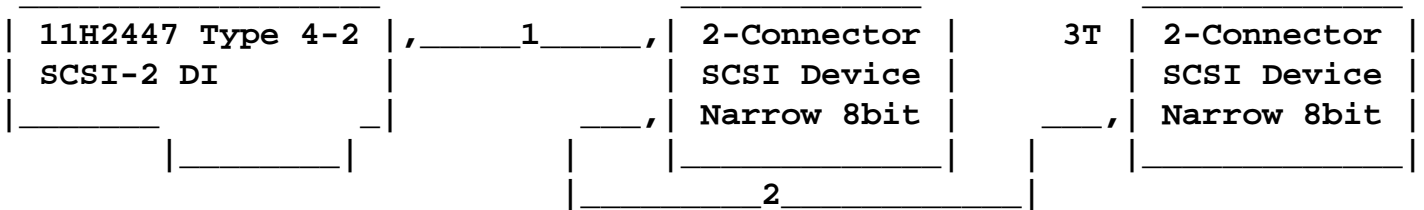


Controller..... P/N 11H2447 FC #2420

U8 & U26 Terminating Resistors..... 42G3326
(Remove for High Availability configuration and save)

Microcode filename..... 8d77.xx.xx

Cabling example



Part Description	FC#	PN	Length
1- Cable Adapter-to-Device	2854/9138	87G1358	0.6m
	2921/9221	67G0593	4.75m
	2923	95X2494	8.0m
2- Cable Device-to-Device	2848/9134	74G8511	0.66m
	2925/9225	95X2492	2.0m
3- Terminator 50-pin low density 8-bit 50-pin low density 8-bit	2847/9133	87G1356	
	2847/9133	79X3795	

NOTE: For 9334-011/501 Cables, see Devices/ 9334-XX1

SCSI-2 Differential Fast/Wide Adapter/A

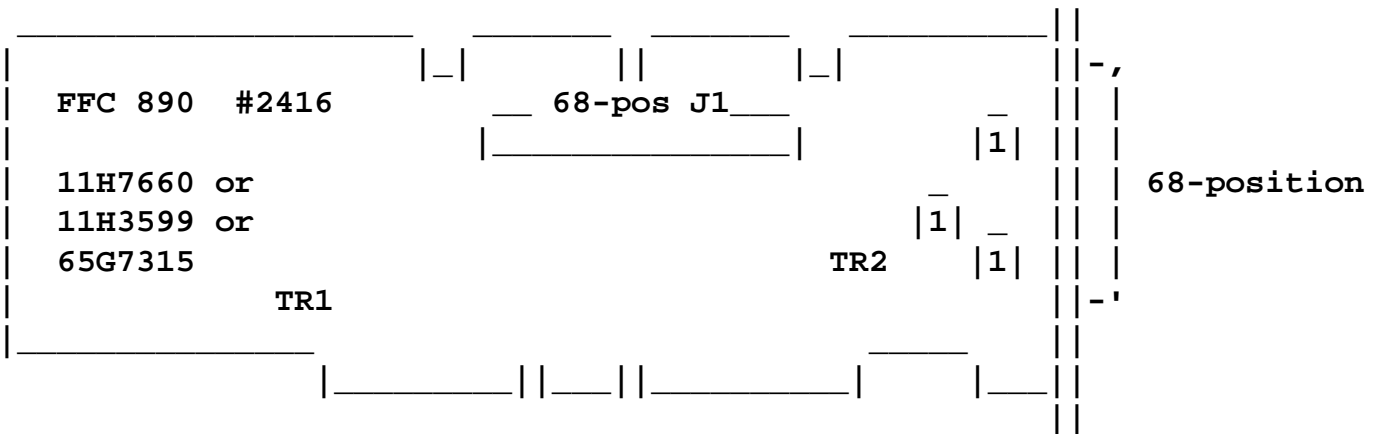
Type 4-6 #2413/2416/9217

Driver AIX3.2: APAR IX42624 in PTF U429285

Diags AIX3.2: APAR IX42623 in PTF U429283

Note: TO GET LATEST FIRMWARE, [ECA192 Package from AIXTOOLS](#)

50-pos



J2, J5 and J6 are not used

1- Terminating Resistors..... 42G3326
(removed for High-Availability)

TR1 Internal Bus PTC resistor (>1/2 ohm)

TR2 External Bus PTC resistor (>1/2 ohm)

This adapter consists of two independent SCSI-2 Fast/Wide controllers

- * One controller is used for the internal SCSI bus, supporting single-ended internal connections only. The internal bus can be cabled as either wide(16-bit) or narrow(8-bit).
- * The other controller is used for the external SCSI bus and supports differential connections only. The external bus can be cabled as either wide(16-bit) or narrow(8-bit).

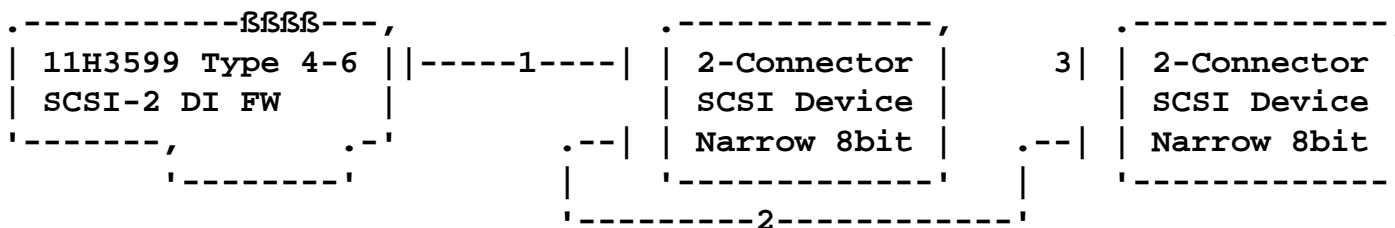
This adapter will support attachment of both wide and narrow devices on a wide bus, or an attachment of only narrow devices on a narrow bus.

Length of differential bus: 25m (82ft).

Attach only differential devices on the external bus and single-ended devices on the internal bus.

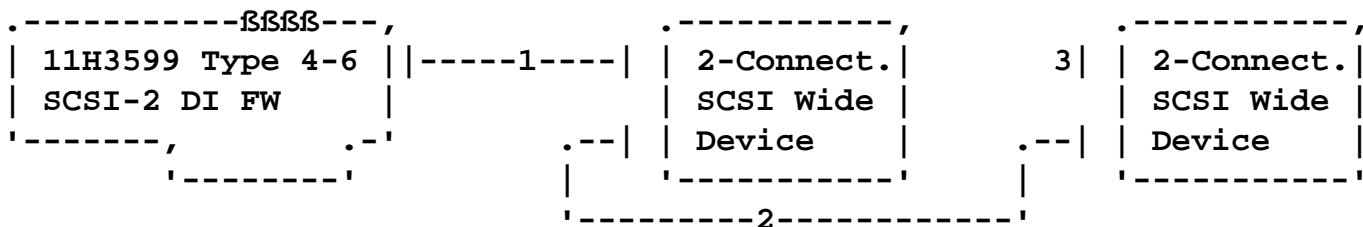
FOR LATEST FIRMWARE: REF ECA192 package on AIXTOOLS

Cabling with narrow devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 8-bit narrow bus.....	2438	88G3636	1.5m
2- Device-to-Device narrow bus 8-bit 7204-215-to-7204-215.....	2848, 9134	74G8511	0.6m
3- Terminator 50-pin lo-density narrow	2847, 9133	87G1356	N/A

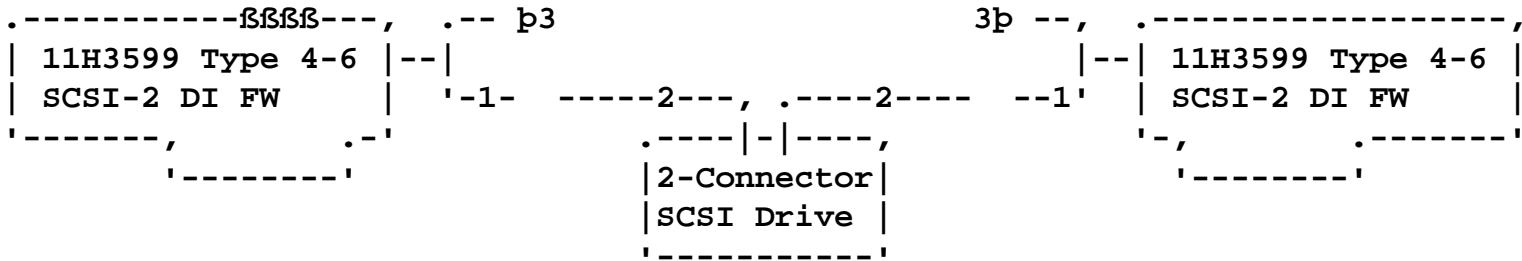
NOTE: For 9334-011/501 and 7134/7135 see these devices in Devices Cabling with wide devices



Cable Description	FC#	PN	Length
1- Adapter-to-Dual-Connector-Device 16-bit wide bus.....	2436	52G4337	1.5m
2- Device-to-Device Wide Bus 16-bit.....	2845/9131 2846/9132	52G4291 52G4233	0.6m 2.5m

3- Terminator 68-pin wide bus 16-bit....	2847/9133	61G8324	N/A
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NOTE: For 9334-011/501 and 7134/7135 see these devices in Devices High Availability



Part Description	FC	PN	Length
1- Y-Cable.....	#2426	52G4234	0.94m
2- Y-Cable-to-device.....	#2424 #2425	52G4291 52G4233	0.6 m 2.5 m
4- Terminator, differential (wide 16-bit)...		61G8324	N/A

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@ @

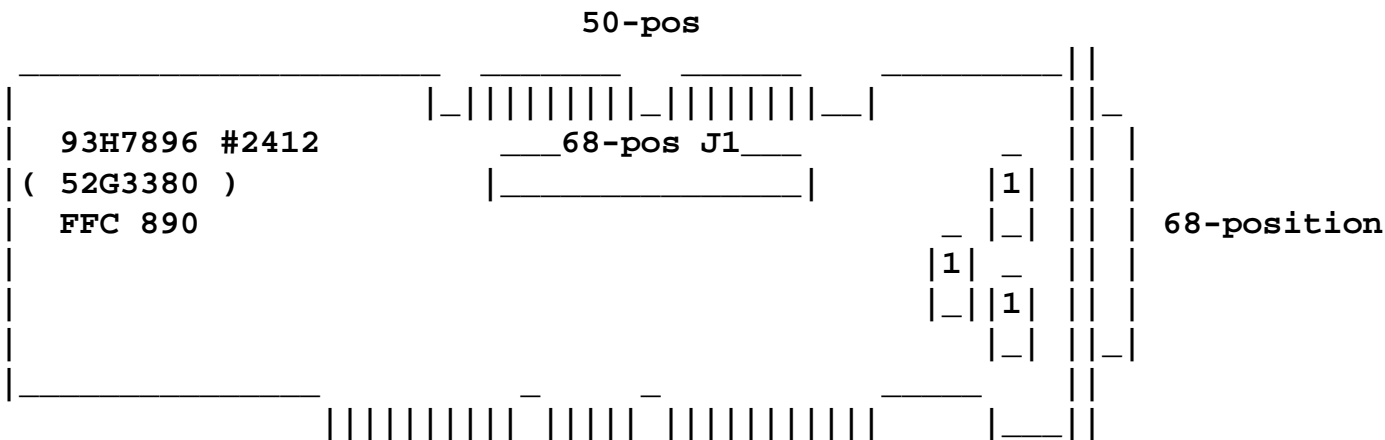
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O u t s t a n d i n g i n t h e f i e l d !

Enhanced SCSI-2 Differential Fast/Wide Adapter/A Type 4-C #2412

Filesets: [devices.mca.8efc.*](#)

Latest Adapter Microcode for [4-C #2412](#)



J2, J5 and J6 are not used

- 1- Terminating Resistors..... 42G3326
(removed for High-Availability)

TR1 Internal Bus PTC resistor (>1/2 ohm)
TR2 External Bus PTC resistor (>1/2 ohm)

This adapter consists of two independent SCSI-2 Fast/Wide controllers

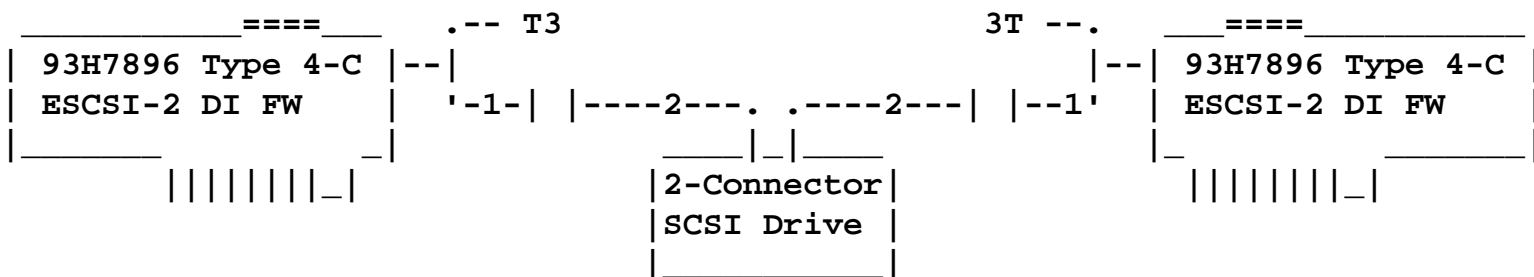
- * One controller is used for the internal SCSI bus, supporting single-ended internal connections only. The internal bus can be cabled as either wide(16-bit) or narrow(8-bit).
- * The other controller is used for the external SCSI bus and supports differential connections only. The external bus can be cabled as either wide(16-bit) or narrow(8-bit).

This adapter will support attachment of both wide and narrow devices on a wide bus, or an attachment of only narrow devices on a narrow bus.

Length of differential bus: 25m (82ft).

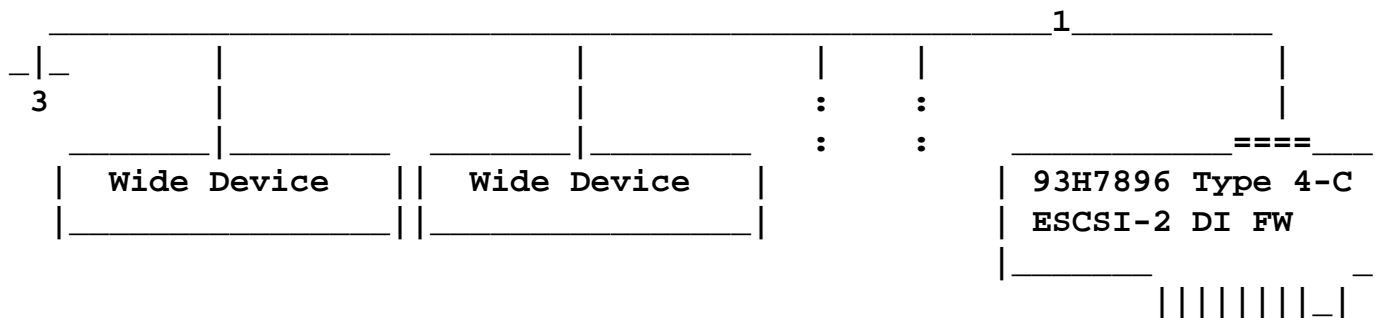
Attach only differential devices on the external bus and single-ended devices on the internal bus.

High Availability



Part Description	FC	PN	Length
1- Y-Cable.....	#2426	52G4234	0.94m
2- Cable (Y-Cable-to-device).....	#2424 #2425	52G4291 52G4233	0.6 m 2.5 m
3- Terminator, differential (wide 16-bit)...		61G8324	N/A

Optional Internal Cabling



Cable Description	FC	P/N for Mach/Type
Internal SCSI cable		

Using the 68-pin internal connector 7013 - 16-bit Wide 6-drop	2431	52G4430
Using the 50-pin internal connector 7013 - 8-bit Narrow 6-drop	2430	52G7451
3- Terminator: Wide.....		92F0322

Last update Jan 2003

tok0	00-02	Token-Ring High-Performance Adapter (8fa2)	
	Loadable Microcode Level.....	WW17C3	OID
	Part Number.....	073G9782	RS4
	EC Level.....	00D50630	
	Serial Number.....	00076337	
	FRU Number.....	060G1593	PAGE
	Manufacturer.....	IBM982	8
	Network Address.....	08005A0D0A34	OF
	Displayable Message.....	Token-Ring High-Performance Adapter (8fa2)	12