Figure 1. NEC Ready 325, 425, 433, 466

Specifications

Processor
- Intel 386SX/25, 486SX/25, 486DX/33, 486DX2/66MHz

Memory
- **325:** 2MB standard, expands to 20MB
- **425, 433:** 4MB standard, expands to 64MB
- **466:** 8MB standard, expands to 64MB

I/O Expansion Slots
- Three 8/16 bit slots

Diskette Drive
- **325:** 1.44MB, 3.5'' and 120MB hard drive
- **425, 433:** 1.44MB 3.5'' and 170MB hard drive
- **466:** 1.44MB 3.5'' and 240MB hard drive

Integrated Features
- Diskette drive and IDE interface controller
- PS/2 Enhanced keyboard
- SVGA controller
     325: with 512 KB vRAM
     425, 433, 466: with 1MB vRAM
- PS/2 Mouse
- One Parallel port and One RS-232C serial port
- 2400 Baud Modem

Internal Expansion Bays
- One user accessible 5.25'' bay
- One user accessible 3.5'' bay
- One internal 3.5'' bay.

I/O Architecture (Bus s supported)
- Industry Standard Architecture (ISA)

Dimensions
- 4.2'' h X 15.4''w X 16.8''d

Power Supply
- 145 Watt

CMOS Access
- QAPlus/FE

Tools and Software Requirements
- 1/4'' Flat bladed and 2PT Phillips screwdrivers
- Diags and formatted blank diskette
- Anti-static wrist strap

Jumper/Switch Settings

System Configuration, Switch SW1 for all units

Switch	Setting	Function
1	ON	Turns off built in video
	OFF *	Turns on built in video
2	ON	Turns off diskette controller
	OFF *	Turns on diskette controller
3	ON	Turns off password feature
	OFF *	Turns on password feature
4	ON	Disallows BIOS changes
	OFF *	Allows BIOS reprogramming

* Default

Network Flash Jumper, Ready 325 Only

Jumper	Setting	Function
J15	1-2 *	Turns off network flash
	2-3	Turns on network flash

* Default

Network Flash Jumper, Ready 425, 433 and 466 only

Jumper	Setting	Function
JP14	1-2 *	Turns off network flash
	2-3	Turns on network flash

* Default

CPU Select Jumpers, Ready 425, 433 and 466 only

Jumper	Setting	Function
JP1,JP2	1-2 *	486SX-QFP,486DX,487SX,Overdrive
	2-3	486SX-PGA
JP12 [2]	1-2	486SX-QFP, 487SX Coprocessor
	2-3 *	486SX-PGA, 486DX, Overdrive
JP15 [2]	1-2	25/50MHz
	2-3 *	33/66MHz

* Default, JP12 is on the upgrade for 433 and 466 only.
When upgrading a 486SX, change the jumper before installing a 486DX or 486DX2

CPU Select Jumpers, Ready 425, 433 and 466 only

Jumper	Setting	Function
JP1,JP2	1-2 *	486SX-QFP,486DX,487SX,Overdrive
	2-3	486SX-PGA
JP12 [1]	1-2 *	486SX-QFP, 487SX Coprocessor
	2-3	486SX-PGA, 486DX, Overdrive
JP15 [1]	1-2 *	25/50MHz
	2-3	33/66MHz

* Default

Printer Port Interrupt Jumper, Ready 425, 433 and 466 only

Jumper	Setting	Function
JP13	1-2 *	LPT1 IRQ7
	2-3	LPT1 IRQ5

* Default

Jumper/Switch Settings (Continued)

System Board Connectors

Connector Description	Ready 325	Ready 425,433,466
Battery	J13	J8
Power Supply	J10, J11	J7, J8
Hard Disk Drive	J7	J2
Diskette Drive	J8	J1
Speaker	J12	JP11
Hard Disk Lamp	J14	JP9
Keyboard/Mouse interface	P5	P1

Removal Procedures

Before beginning removal complete the following steps:
1. Turn off the computer and any peripheral devices.
2. Disconnect AC power cord from outlet and system.
3. Disconnect all peripheral devices from the computer.
4. Discharge any static by touching static strap to chassis.

System Cover
1. Locate the cover release at the top of the system in the back of the unit.
2. Turn the cover release with a coin or slotted screwdriver so that the slot is in the vertical position.
3. Slide cover to the front of system a few inches.
4. Lift the cover up and off to remove.

Special Notices:
- All NEC hard drives are formatted at the factory and need no formatting and are configured as primary by default.
- All switch settings will not be reflected until the system has been completely repowered.
- IDE drive can not be used with the ST506 or ESDI type controller boards. Remove the Non-IDE boards.
- When removing the processor chips, use a chip puller.
- Multi-Sync monitors contain high voltages, any internal adjustments are to be made only by certified engineer.
- For Advanced Diags use a PC Diagnostic Utility.
- Troubleshoot according to errors found during test.
- Add memory to system, closest to the drive bays first.
- Different size SIMMS may be intermixed when adding memory to system board, however, same speed SIMMs are recommended.
- SIMMs memory chips have 72 pins

Field Replaceable Units

Memory	OEM Part	IBM Part
1MB @ 1MB x 9 SIMM	158-082066-080	61H5863
2MB @ 2MB x 9 SIMM	158-050294-002	61H6760
4MB @ 4MB x 9 SIMM	158-082182-000	48H7041
8MB @ 8MB x 9 SIMM	158-053380-000	61H6762
1MB @ 256KB x 36 SIMM[2]	158-082315-080	61H5865
1MB @ 1MB x 9 SIMM [2]	158-053409-002	61H6763
4MB @ 1MB x 36 SIMM [2]	158-082311-080	61H5866
4MB @ 1MB x 36, SIMM	158-053409-003	48H7042
16MB @ 4MB X 36 SIMM [2]	158-053409-004	67H9767
16MB @ 4MB x 36 SIMM [2]	158-082316-080	61H5867

[1] Ready 325, [2] Ready 424, 433, and 466

Internal Hard Drive	OEM Part	IBM Part
120MB, 3.5'', IDE HD	158-050395-304	20H9516
170MB, 3.5'', IDE HD	158-050395-308	20H9517
240MB, 3.5'', IDE HD	158-050395-305	20H9532

System Boards	OEM Part	IBM Part
G8KGR- 325 system board	158-026129-001B	67H9667
G8KGQ- 425 system board	158-026128-001A	48H6996
G8KHE- 433 system board	158-026128-100A	48H6997
G8KHG- 466 system board	158-026128-201A	61H5862

Diskette Drives	OEM Part	IBM Part
3.5'', 1.44MB Floppy	808-870954-101A	37H8753
5.25'', 1.2MB Floppy	134-505442-0060	22H1966

Cables	OEM Part	IBM Part
HD IDE signal cable	158-050324-002	55H1077
Floppy signal cable	158-050503-001	66H7465
Keyboard/mouse intf. Cable	158-050366-001	61H6761

Miscellaneous	OEM Part	IBM Part
ISA backboard	158-126135-000A	61H6765
Power supply (145 Watt)	158-050490-000	22H1963
Battery 3.6v	158-060155-000	20H9490
Keyboard PS/2 style	808-897060-001A	49H5552