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Satellite Pro Series

Satellite Pro

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TOSHIBA

Technical specification

Processors

Processor type	Intel® Mobile Pentium® III processor at 700 MHz featuring Intel® SpeedStep™ technology		
Processor speed	700 MHz		
External bus speed	100 MHz		
Cache memory	32 KB Level 1 and 256 KB Level 2 cache (integrated into CPU chip)		
Processor core voltage	1.6 volt core using 'Voltage Reduction Technology' in AC mode 1.35 volt core in battery mode		
Co-processor	Integrated in processor		
System bus	PCI		
Processor type	Intel® Mobile Pentium® III processor at 650 MHz featuring Intel® SpeedStep™ technology		
Processor speed	650 MHz		
External bus speed	100 MHz		
Cache memory	32 KB Level 1 and 256 KB Level 2 cache (integrated into CPU chip)		
Processor core voltage	1.6 volt core using 'Voltage Reduction Technology' in AC mode 1.35 volt core in battery mode		
Co-processor	Integrated in processor		
System bus	PCI		
Processor type	Intel® Mobile Pentium® III processor at 600 MHz featuring Intel® SpeedStep™ technology		
Processor speed	600 MHz		
External bus speed	100 MHz		
Cache memory	32 KB Level 1 and 256 KB Level 2 cache (integrated into CPU chip)		
Processor core voltage	1.6 volt core using 'Voltage Reduction Technology' in AC mode 1.35 volt core in battery mode		
Co-processor	Integrated in processor		
System bus	PCI		
Processor type	Intel® Mobile Pentium® III processor		
Processor speed	500 MHz		
External bus speed	100 MHz		
Cache memory	32 KB Level 1 and 256 KB Level 2 cache (integrated into CPU chip)		
Processor core voltage	1.6 volt core using 'Voltage Reduction Technology'		
Co-processor	Integrated in processor		
System bus	PCI		
Processor type	Intel® Mobile Celeron™		
Processor speed	550 MHz		
External bus speed	100 MHz		
Cache memory	32 KB Level 1 and 128 KB Level 2 cache (integrated into CPU chip)		
Processor core voltage	1.6 volt core using 'Voltage Reduction Technology'		
Co-processor	Integrated in processor		
System bus	PCI		

Not each processor type and clock speed are available in all countries. Ask your dealer.

System memory

Memory type	Amount	Access speed	Data bus width
SDRAM	64 MB (PC100)	9 nanoseconds	64-bit
Maximum memory expansion (SDRAM)	320 MB	9 nanoseconds	64-bit
BIOS Flash EPROM	512 KB		
Video RAM	8 MB	50 nanoseconds	16-bit

Memory technology	Technology	Synchronous DRAM 3.3-volt (PC100)
	No. of memory expansion slots	2 free slots to configure
	Expansion module sizes	32, 64, 128

Diskette drive	Simultaneous internal use with the CD-ROM-drive		
	Specification	High setting	Low setting
	Media supported	3.5 inch 2HD	3.5 inch 2DD
	Storage capacity	1.44 MB	720 KB
	Rotation	300 rpm	300 rpm
	Transfer rate	500 kbit per second	250 kbit per second
	Bytes per sector	512	512
	Sectors per track	18	9

Hard disks	Formatted capacity	12.0 GB *	
	Max. data transfer rate to/from media	Max. 153.3 Mbit/sec	
	Average seek time	12 ms	
	Track-to-track seek time	3 ms	
	Drive rotation	4200 rpm	
	No. of disks	2	
	No. of read/write heads	4	
	Bytes per sector	512	
	Interleave	1:1	
	Interface	Enhanced IDE	
	Hard disk height	9,5 mm	
	S.M.A.R.T hard disk technology	Yes	
	Formatted capacity	6.0 GB *	
	Max. data transfer rate to/from media	Max. 153.3 Mbit/sec	
	Average seek time	13 ms	
	Track-to-track seek time	3 ms	
	Drive rotation	4200 rpm	
	No. of disks	1-2	
	No. of read/write heads	2-4	
	Bytes per sector	512	
	Interleave	1:1	
	Interface	Enhanced IDE	
	Hard disk height	9,5 mm	
	S.M.A.R.T hard disk technology	Yes	
		*one GB means one billion bytes	

DVD-ROM drive	Speed	Max. 6x DVD-ROM, 24x CD-ROM Mode	
	Interface	Enhanced IDE (ATAPI)	
	Supported CD-ROMs	12 cm/8 cm	
	Applicable disc format	DVD-ROM, DVD-R (read only), DVD-RW (read only), Red-Book, Yellow-Book, CD-ROM XA, CDI-Bridge (Photo-CD), CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Plus), Video CD, CD Extra (CD Plus), CD-R, and CD-RW	

DVD-ROM drive	Average seek time	120 ms (DVD-ROM), 95 ms (CD-ROM)		
	Rotation speed (rpm)	200 to 530 (1X)	5136 (24X)	
	Data transfer rates (typical)	Sustained mode:	3,600 KB/sec(max.24x)	
		Burst mode:	16.7 MB/sec (PIO mode 4)	
		DMA single mode:	8.33 MB/sec (DMA mode 2)	
		DMA multi mode:	16.7 MB/sec (DMA mode 1)	
	Weight	270 grams		
	Buffer size	128KB		
DVD player software	Mediamatics DVD Express (not supported under Windows NT)			

CD-ROM drive

CD-ROM speed	Max. 24x	
Interface	Enhanced IDE (ATAPI)	
Supported CD-ROMs	12 cm/8 cm	
Applicable disc format	Red-Book, Yellow-Book, CD-ROM XA, CDI-Bridge (Photo-CD), CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Plus), Video CD, CD Extra (CD Plus), CD-R, and CD-RW	
Average seek time	130 ms	
Rotation speed (1/min)	200 to 530 (1X)	5136 (24X)
Data transfer rates (typical)	Sustained mode:	3,600 KB/sec(max.24x)
	Burst mode:	16.7 MB/sec (PIO mode 4)
	DMA single mode:	8.33 MB/sec (DMA mode 2)
	DMA multi mode:	16.7 MB/sec (DMA mode 1)
Weight	195 grams	
Buffer size	128KB	

Displays

Screen size	13.0" DSTN	12.1" TFT
Screen type	Advanced DSTN	Active matrix TFT
Number of dots	800 x 600	800 x 600
Dot pitch	0.33 x 0.33 mm	0.3075 x 0.3075 mm
Diagonal	13.0 inch (33 cm)	12.1 inch (30.7 cm)
Contrast ratio	50:1 (typical)	100:1 (typical)
Contrast Control	Yes	No
Simultaneous colours*	16.7 mill.	16.7 mill.
Response rise/fall	50 ms / 50 ms	30 ms / 50 ms
LCD brightness	50 cd/m ²	50 cd/m ²
Semi-Bright (AC; Battery)		
Bright (AC; Battery)	80 cd/m ²	70 cd/m ²
Super-Bright (AC; Battery)		115 cd/m ²
* Maximum colours with dithering		
Screen size	13.3" TFT	14.1" TFT
Screen type	Active matrix TFT	Active matrix TFT
Number of dots	1,024 x 768	1,024 x 768
Dot pitch	0.28 x 0.28 mm	0.28 x 0.28 mm
Diagonal	13.3 inch (33.8 cm)	14.1 inch (35.8 cm)
Contrast ratio	100:1 (typical)	100:1 (typical)
Simultaneous colours*	16.7 mill.	16.7 mill.
Response rise/fall	50 ms / 50 ms	30 ms / 50 ms
Brightness Semi-Bright (AC; Batt.)	50 cd/m ²	50 cd/m ²
Bright (AC; Battery)	70 cd/m ²	70 cd/m ²
Super-Bright (AC; Battery)	115 cd/m ²	115 cd/m ²
Screen size	15.0" TFT	
Screen type	Active matrix TFT	
Number of dots	1,024 x 768	
Dot pitch	0.28 x 0.28 mm	
Diagonal	15.0 inch (38.1 cm)	
Contrast ratio	100:1 (typical)	
Simultaneous colours*	16.7 mill.	
Response rise/fall	30 ms / 50 ms	
Brightness Semi-Bright (AC; Batt.)	50 cd/m ²	
Bright (AC; Battery)	70 cd/m ²	
Super-Bright (AC; Battery)	115 cd/m ²	
* Maximum colours with dithering.		Not all display types and sizes are available in all countries. Ask your dealer

Video modes
Models with
S3 Savage IX

Video display	Resolution	Max. refresh rate	Max. number of colours
Internal display	640 x 480		Up to 16.7 million colours
	800 x 600		Up to 16.7 million colours
virtual display on	1024 x 768		Up to 16.7 million colours
	1280 x 1024		Up to 16.7 million colours
virtual display	1600 x 1200		Up to 65.536 colours
External SVGA	640 x 480	85 Hz	Up to 16.7 million colours
External SVGA	800 x 600	85 Hz	Up to 16.7 million colours
External SVGA	1024 x 768	85 Hz	Up to 16.7 million colours
External SVGA	1280x 1024	85 Hz	Up to 16.7 million colours
External SVGA	1600 x 1200	60 Hz	Up to 65.536 colours

* More pixels required than are available. Picture will scroll.

Graphics adaptors

S3 Savage IX	
Memory size	8 MB VRAM
BitBIT	128-bit
Connected bus	AGP x2 bus
Bus clock speed	66 MHz
2 D graphics accelerator	Yes
3 D graphics accelerator	3D assist for Z-Buffer
Open GL support	Yes
Direct 3D support	Yes
Motion compensation	Yes
Integrated TV Encoder	NTSC/PAL
Reduce TV out Flicker	3Tap
Multiple display support	Yes

Multiple security system

Data Security	
System password security	Yes
HotLock security	Yes
User Power on Password	Yes
Supervisor Password	Yes
2 level HDD Password	Yes (on demand)
Keyboard Lock	Yes by Hotkey
Physical Security	
Main Memory	Yes by screw
Main Hard disk	Yes by screw
Slot for Kensington cable lock	Yes
PC Card lock	Yes with Kensington cable lock

Physical dimensions

Model	Weight	Size (W x L x H)
13.0", 12.1", 13.3" and 14.1" models	3.06 kg	309 x 263 x 44 mm
All models with DVD-ROM	3.17 kg	309 x 263 x 44 mm
15" model	3.16 kg	313 x 270 x 45 mm
All	Casing	Polycarbonate/ABS

Battery

Main	RTC
Lithium-ion	NiH ₂
Removable main battery pack	
10.8 V x 4000 mAh = 43.2 Wh (9 cells)	2.4 V x 12 mAh
4 days (typical)	
Up to 3 hrs	1 month (typical)

Resume back-up
Battery life

Recharging time

Power off (full charge)	2-2.5 hours
Power off (90 % charge)	1.5 hours
Power on	4-10 hours

Power supply

All, but 15.0" TFT and Mobile Intel® Pentium® III at 600/650/700 MHz featuring Intel® SpeedStep™ technology model	Input voltage	100 – 240 V AC, autosensing for world-wide usage
	Frequency	50 - 60 Hz
	Output voltage	15 V
	Output current	3 A
	Power dissipation	45 W
	Weight	300 g
	Size (L x W x H)	125 x 63 x 25 mm

Power supply

15.0" TFT and Mobile Intel® Pentium® III at 600/650/700 MHz featuring Intel® SpeedStep™ technology model	Input voltage	100 – 240 V AC, autosensing for world-wide usage
	Frequency	50 - 60 Hz
	Output voltage	15 V
	Output current	4 A
	Power dissipation	60 W
	Weight	430 g
	Size (L x W x H)	140 x 75 x 25 mm

Expansion

PC
PC Card16 and CardBus support Type III slot for 2 Type II cards or 1 Type III card
2 free internal memory slots
Connects to Card Station III with the optional Card Station III Spacer (15.0" TFT and Mobile Intel® Pentium® III at 600 MHz featuring Intel® SpeedStep™ technology model need an 60 Watts power supply)
Connects to Card Station IV (optional)
PC port expansion with Port Replicator (optional)

Interfaces

PC ports
Serial port (16550UART equivalent)
Parallel (ECP)
External monitor
Expansion Bus connector
Fast infrared port (FIR)
PS/2™ mouse or keyboard
TV-Out (NTSC/PAL output; RCA connector) – except Pentium® 450 MHz model
USB port
Headphone
External microphone (monaural)
RJ11 modem jack

Special features

Toshiba Hibernation and Resume
Toshiba Power Extensions
System Password Securities
Password Security
SecureSleep™
HDD password on request
Recovery CD
Slot for Kensington cable lock
Power on button lock
1 year international warranty

Docking stations (optional)**Card Station IV**

Serial
Parallel (ECP)
External monitor
PS/2™ mouse
PS/2™ keyboard
External microphone
Line in
Line out
2x USB
DC-in
1 PC Card slot type III
Slot Kensington cable slot
Security slide

Port Replicator

Parallel (ECP)
Serial
External monitor
Midi/Joystick
PS/2 mouse
PS/2 keyboard
Line in
Line out
2 x USB
DC-in
Microphone
Headphones
Slot for Kensington cable lock

Card Station III Spacer

Connects the Satellite Pro to Card Station III (15.0" TFT and the Intel® Pentium® III 600 MHz featuring Intel® SpeedStep™ technology models need an optional 60 Watts power supply)

Communication

Integrated modem	International V.90 modem
Supported Protocol	V.90 Data + Fax (56Kbps data, 14.4Kbps fax)
Modem chip	Lucent DSP1646 and CSP1034
Port	RJ 11
Ring Wake-up Resume	Yes

Keyboard

Total number of keys	86
Key Pitch	19.05mm
Key stroke	3 mm
Integrated Pointing device	AccuPoint™ II, including two programmable scroll buttons
Windows® keys	Supported (2)
Function keys	12
No. of Hotkeys	8
Application Key Support	Yes
Euro Key	Yes

Sound system

Yamaha YMF744B-R sound chip
3 D sound
16-bit, SoundBlaster Pro V 3.01 compatible, Windows Sound System V 2.0 compatible
MIDI (play back) & Wave synthesis support
2 built in stereo speakers
Max. 48 KHz sampling rate
Full duplex sound
1 headphone jack (stereo), one line-in jack (stereo) & one volume control dial
External microphone port

BIOS

ACPI (1.0b) enabled BIOS
SM BIOS V. 2.3

Bundled Software

Pre-installed operating system: Microsoft® Windows® 95 and Windows® 98 selectable installation Microsoft® Windows® NT 4.0 and Windows® 2000 selected installation on request (limited language versions available) Toshiba utilities and drivers for Microsoft® Windows® 98 PC Card Management software Toshiba Hibernation Utility	For Benelux only: Pre-installed Microsoft® Windows® 95 English, French or Dutch selectable installation Microsoft® Windows® NT 4.0 and Windows® 2000 selectable installation on request (limited language versions available)
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**Bundled Software
cont'd.**

On-line help (User's Manual) and modem Manual
DVD Express (bundled with DVD models) supported under Microsoft® Windows ® 95,
Windows ® 98 and Windows ® 2000

Warranty

1-year International Warranty

**Environmental
conditions**

	Operating	Non-operating
Temperature	5 °C to 35 °C	-20 °C to 65 °C
Max. thermal gradient	20 °C/hour	20 °C/ hour
Relative humidity	20 % to 80 %, non-condensing	10 % to 95 %, non-condensing
Altitude (relative to sea level)	-60 to 3,000 m * (-200 to 10,000 feet) *	-60 to 10,000 m (-200 to 30,000 feet)
Shock	10 G (1.5 G**)	60 G (50 G**)
Vibration	0.5 G (0.25 G**)	1 G (1G**)

* Aeroplane cabin pressures simulate low altitudes. Flying higher causes no restrictions.

** When CD-ROM drive installed.

Certification

This product is approved for electrical safety and/or electromagnetic compatibility (EMC) by the following associations:

TÜV

DIN GOST TÜV

UL1950

CSA

FCC

The manufacturer declares that this product complies with the following directives and regulations for the CE-marking. Responsible for CE marking is Toshiba Europe GmbH, Hammfelddamm 8, D-41460 Neuss, Germany.

93/68/EEC CE marking directive

89/336/EEC EMC directive

73/23/EEC Low voltage directive

EN 60950 Electrical safety

EN 55022 EMC/Radio disturbances

EN 50082-1 EMC Immunity (residential, commercial & light industry)

EN 61000 -3 -2, -3 -3 Disturbances in supply systems

Features & Benefits

Processors

Features	Benefits
Intel® Mobile Pentium®III processor at 600/650/700 MHz featuring Intel® SpeedStep™ technology	<p>The latest Intel® Mobile Pentium® III processor at 600 MHz featuring Intel® SpeedStep™ technology enables your PC to handle multiple tasks simultaneously and offers high performance even for advanced business and graphics applications.</p> <p>Intel® SpeedStep™ technology provides two performance modes near desktop performance and all benefits of mobility</p> <p>Maximum performance mode for near desktop equivalent performance while connected to external power</p> <p>Battery optimised performance mode for the best balance between performance and battery life</p> <p>Battery optimised mode provides a 40-60% reduction in CPU power while maintaining 80% of the maximum performance</p> <p>Pentium® III technology adds over 70 new instruction sets to accelerate multimedia applications.</p>
Intel® Mobile Pentium®III processor at 500 MHz	<p>Designed for all professional power users on the road and in the office</p> <p>Improves speed of certain operations often used for multimedia applications. Pentium® III offers more benefits in video, graphics and sound performance</p>
Integrated Level 2 cache (256 KB on die)	Ensures high speed memory access speeds, giving an improved performance
100 MHz external bus speed	Accelerates data transfer rates between the processor and main memory

Processor

Feature	Benefit
Intel® Mobile Celeron™ processor at 500/550 MHz	<p>The Intel® Mobile Celeron™ processor offers enough resources for all current office applications</p> <p>Enough resources for business to business presentations</p> <p>This processor features an optimised price / performance ratio</p>
Integrated Level 2 cache (128 KB on die)	Ensures optimal memory access speeds, giving an improved performance
100 MHz external bus speed	Accelerates data transfer rates between the processor and main memory

Memory

Feature	Benefit
Standard 64 MB SDRAM	64 MB RAM is ideal for Windows® to run on powerful memory intensive software at a comfortable speed
Two memory slots to configure	A larger amount of memory improves the operating speed
Expandable up to 320 MB	320 MB RAM are enough for all current applications and ensures enough power for future applications
	Easy upgrade for customers

Memory, cont'd

512 KB Flash EPROM	Flash EPROM's allow user to quickly update BIOS if necessary without returning machine to supplier – just by updating via software
	Saves time and upgrade cost for the user
32, 64 and 128 MB memory expansion modules (optional)	Faster manipulation of software and data stored in memory
	User can easily upgrade memory when need arises

Integrated Disk Drive

Feature	Benefit
3.5" diskette drive	Provides small, durable, industry-standard media for portable environment
	Reads from and writes to 3.5" 720 KB and 1.44 MB diskettes (adjusts automatically)

Hard disks

Feature	Benefit
12 GB* hard disk drive	Huge storage capacity for demanding users
	12 GB* offers enormous storage capacity for applications, graphics, audio files, large presentations and programs
6 GB* hard disk drive	Provides large storage capacity for multiple programs and data
	6 GB* offers enough storage capacity for applications, graphics, audio files or large presentations
	*one GB means one billion bytes
13 ms average access time and 1:1 interleave	Fast access to programs and data stored on hard disk
	A fast access to the hard disk ensures an improved overall system performance
Low-power modes	Longer battery operating life
	User can choose the settings via software
S.M.A.R.T hard disk technology	Hard disk with integrated self-testing functionality
	The hard disk is capable to send out a report when failure occurs if manageability software is installed

Integrated DVD-ROM drive

Feature	Benefit
6 speed DVD-ROM drive (12.7 mm high)	Reads both standard CDs and next-generation DVD-ROMs
	Access up to 650 MB on a CD-ROM or 17 GB on a DVD-ROM
	High quality medium for Multimedia presentations, electronic catalogues, or other disk space consuming applications
	Enormous storage capacity for the next generation of image databases, company presentations on DVD, software driven sales databases or offline product configuration
CD-ROM compatibility	Reads CD-ROMs, CD-Rs and CD-RWs at up to 24 speed rates

Integrated CD-ROM drive

Feature	Benefit
24 speed CD-ROM drive (12.7 mm high)	<p>High quality medium for multimedia presentations, electronic catalogues or other disk space consuming applications</p> <p>Reads from 8 cm and 12 cm CD-ROMs</p> <p>High-speed helps installation of software, CD-ROM based databases, audio- and video files</p> <p>Reads all modern CD-ROM formats such as Multisession, CD-R and CD-RW</p>

Displays

Feature	Benefit
13.0" DSTN (33 cm)	Ergonomic display and more relaxed working for the eyes
12.1" TFT (30.7 cm)	<p>Comfortable display size; optimised for budget restrained customers</p> <p>Bright and non-flickering display enhances working condition and reduces eye strain</p> <p>Internal screen resolution of 800 x 600 with 24-bit colour depth (16.7 million colours)</p>
13.3" TFT (33.8 cm)	<p>Bright and non-flickering display enhances working condition and reduces eye strain</p> <p>Internal screen resolution of 1024 x 768 with 24-bit colour depth (16.7 million colours)</p>
14.1" TFT (35.8 cm)	<p>Bright and non-flickering enhances working condition and reduces eye strain</p> <p>Large display for graphics demanding users</p> <p>Internal screen resolution of 1024 x 768 with 24-bit colour depth (16.7 million colours)</p>
15.0" TFT (38.1 cm)	<p>Bright and non-flickering enhances working condition and reduces eye strain</p> <p>Largest available display</p> <p>Ideal for showing presentations direct on the display for a small audience</p> <p>No need to connect an external monitor in the office</p> <p>Internal screen resolution of 1024 x 768 with 24-bit colour depth (16.7 million colours)</p>

Graphics sub-system

Feature	Benefit
S3 Savage IX	Offers the highest performance and boasts superior graphics with a 128-bit architecture
Resolutions	<p>1024 x 768 x 16.7 million colours internal resolution</p> <p>1600 x 1200 x 65.536 colours external resolution</p>
8 MB video RAM	Provides leading edge performance along with the highest image quality

**Graphics subsystem,
cont'd**

AGP-2X	Full Accelerated Graphics Port 2X support features a peak bandwidth of 2x the PCI bus Improves 3D performance Improves overall system performance. The CPU can perform other activities while the graphics chip is accessing data in system memory.
Video graphics accelerator	Ensures that graphics are generated quickly on screens to take advantage of Graphical User Interfaces such as Windows
Integrated TV encoder	Sets new quality standards for flicker reduction, filtered overscan compensation and NTSC/PAL encoding Ensures excellent TV output quality
Dual display mode	Allows user to show data and presentations to colleagues or customers on an external monitor or beamer while controlling the procedure from the internal screen and keyboard
Multiple monitor mode	Work with different resolutions on different devices – allows high resolution internally and lower resolution on external devices unable to support higher resolutions (depending on OS support - may require extra hardware)

Pointing device

Feature	Benefit
AccuPoint™ II	User friendly pointing device for precise control of cursor Two additional programmable scroll buttons for convenient scrolling through large documents or web sites No protruding extras when travelling

Keyboard

Feature	Benefit
Full-function keyboard	3 mm travel ensures faster, more comfortable data entry
Cursor keys	Allow fast, convenient cursor positioning
12 function keys and embedded keypad	Provides desktop keyboard functionality and greater productivity
8 hot keys	Allow users to change set-up features and HotLock security direct from the keyboard
Windows® keys	Significantly improves interaction with Windows® programs
Euro sign	Printed on keyboard. Ready for full transition to the Euro in 2002
Palm-rest for hands	Allows easy comfortable typing, even where there is no flat surface

Interfaces

Feature	Benefit
Serial port	16550UART equivalent allows to connect standard devices accepting serial signals
Parallel (ECP) port	Allows use of peripheral devices accepting parallel signals Permits easy data exchange with external storage devices Permits easy and rapid data exchange with external devices, (e.g. CD-ROMs, printers or scanners)
External SVGA colour monitor port	Provides high-resolution (up to 1600 x 1200 dots) display of colour and graphics on external monitor for sharp images

Interfaces / cont'd

PS/2 keyboard/ PS/2 mouse port	<p>Allows use of 102-key keyboard when desired; increases productivity of operators familiar with 102-key keyboard</p> <p>Provides full keyboard versatility</p> <p>Allows faster, more accurate entry of numerical data</p> <p>Allows use of desktop pointing devices such as a mouse with graphics and presentation software</p> <p>Frees serial port for use by another device</p>
USB port	<p>Future protection by being compatible with the next generation of low-power, user-friendly expandability</p> <p>Allows for up to 127 devices to run simultaneously on the PC</p>
Microphone	Enables connection of a microphone for audio input
Headphone	Enables connection of a stereo headphone for audio output
TV out	Allows to connect a NTSC/PAL TV
	Provides excellent presentation, graphics and multimedia capabilities with a TV
Fast infrared port	<p>Wireless bi-directional transmission of files between many types of devices incl. PCs, printers, PDAs, modems, telephones</p> <p>Low power consumption</p> <p>IrDA 1.1 compliant industry-standard</p>

Design

Feature	Benefit
A4 notebook design	<p>Provides the speed, power and expandability of a high performance desktop in a lightweight, go-anywhere form</p> <p>A4 format fits into nearly every suitcase.</p>
Rugged ABS casing	<p>Tough enough to take the knocks of life on the road</p> <p>Colour is integrated into material so casing doesn't require painting and there is no danger of paint peeling or scratching</p> <p>One of the most modern currently available plastics</p>

Expansion

Feature	Benefit
2 Type II or 1 Type III PC Card (PCMCIA) slot	<p>Provides mobile communication and expansion in a credit-card-sized format</p> <p>Can be used for a wide range of communication and expansion modules such as modems, network adaptors, flash memory cards and removable hard disks</p>
2 free memory slot (64 MB down on motherboard)	<p>Allows memory expansion up to 320 MB RAM</p> <p>32, 64 or 128 MB RAM modules available</p>
CardBus ready	Allows access to all the latest, high performance PC Card expansion devices

Docking (optional)

Feature	Benefit
Card Station III Spacer	<p>Connects the Satellite Pro to Card Station III</p> <p>Ensures improved stationary ergonomics</p>

Docking (optional), cont'd

Card Station IV	<p>Adds additional PC ports to the Satellite Pro</p> <p>The additional ports are: serial, parallel, external SVGA monitor, 2 PS/2 ports, 2 USB ports, microphone jack, headphone jack, MIDI/Joystick port, line-in, line-out, 1 PC Card slot Type III or 2 PC Card slots Type II</p>
Port Replicator	<p>Adds additional PC ports to the Satellite Pro</p> <p>Additional ports: serial, parallel, external SVGA monitor, 2 PS/2 ports, 2 USB ports, line-in, line-out, microphone jack, headphone jack and MIDI/Joystick port</p>

Power supply

Feature	Benefit
Lightweight removable, rechargeable Lithium-ion battery pack	<p>Higher capacity than other battery types, hardly any memory effect</p> <p>Environmentally friendly to dispose of</p> <p>Offers longer battery life</p> <p>Most modern battery technology</p> <p>Can be recharged at any time</p>
Toshiba Power Extensions	Allows user to specify when power-hungry components should be shut down to make most efficient use of available battery power
Toshiba Hibernation and Resume	<p>Allows turning the notebook off without exiting from software application; powers-up where you left off. AutoSave provides security against possible data loss due to loss of battery power.</p> <p>Hibernation stores the data on the hard disk. No need to use a battery to keep the data.</p> <p>Resume stores the data in the memory.</p>
ACPI enabled BIOS	Future protection by allowing compatibility with highly advanced power and expandability features in Microsoft's Windows® 98
Intelligent power supply	Provides easy access for monitoring battery life with battery "gas gauge," invoked through pop-up menu.
System reset button	Allows rebooting without cycling power and without keyboard use (functions even when keyboard is locked)

Multiple security system

Feature	Benefit
Power on password	System asks for password before the PC boots
Hard disk protection	The hard disk is protected from removal by a screw.
Secure Sleep™	Instant security with a screen blank and keyboard/mouse lock-out using the F1 hot key
Kensington MicroSaver provision	Hardware-based theft prevention. The computer can be physically secured to an immovable object
Power button lock	Prevents from powering on/off the machine by mistake

Communication

Feature	Benefit
Integrated international V.90 modem	<p>Allows user to access the internet or the companies' network while he's not in the office.</p> <p>Modem is integrated into the casing of the notebook. No extra hardware has to be used.</p> <p>Certified in all leading industrial countries enabling easy access to e-mail or web.</p>

Communication, cont'd

56 K data	Most modern modem standard guarantees fast internet connection rates and saves money through higher data throughput. Receive data with up to 56 kbps.
14.4 K fax	Send and receive faxes with 14.4kbps

Special features

Feature	Benefit
Flash EPROM	Allows end user to easily update BIOS if needed
Built-in sound system	Provides audio support to visuals 16-bit Sound Blaster Pro compatible sound card Speakers inside the computer Enables to give astonishing multimedia presentations
Toshiba Hibernation and Resume	Allows turning the notebook off without exiting from software application; powers-up where you left off. AutoSave provides security against possible data loss due to loss of battery power Hibernation stores the data on the hard disk. No need to use a battery to keep the data Resume stores the data in the memory
Hot keys	Allow users to change various system configuration options any time, at the press of a key
LED icon bar	Users can see the status of the machine with lid closed
Power button flap	Avoids the risk of accidentally turning the PC on or off

Toshiba support

Feature	Benefit
1-year International Warranty	Provides confidence that the notebook will give lasting, reliable performance throughout the world

Options

Feature	Benefit
32, 64 and 128 MB memory modules	Permits convenient, easy-to-install memory expansion for memory-intensive software applications
Extra battery pack	Increases battery life while on the road
Card Station IV	Docking station for Satellite Pro models
Port Replicator	Expansion of PC ports. Add additional PC ports to the notebook
Card Station III spacer	Allows connection of Satellite Pro to Card Station III
Quick battery charger	One battery can be charged using the quick battery charger while the other is in use to extend overall operating time
Key caps for European languages	Users in virtually all countries work with most familiar set of keys
PC Card Ethernet adaptor	Lets you connect to your network

Options

Memory

PA Number	Article
PA3003U-K	32MB memory kit
PA3004U-K	64 MB memory kit
PA3005U-K	128 MB memory kit

Keyboard

PA Number	Article
PA3006E-1KGR	Keycaps for German keyboard
PA3006E-1KFR	Keycaps for French keyboard
PA3006E-1KBE	Keycaps for Belgian keyboard
PA3006E-1KSC	Keycaps for Scandinavian keyboard
PA3006E-1KSL	Keycaps for Swiss keyboard
PA3006E-1KIT	Keycaps for Italian keyboard
PA3006E-1KSP	Keycaps for Spanish keyboard
PA3006E-1KEN	Keycaps for English keyboard

Power

PA Number	Article
PA2450UE	Universal AC adaptor 15V, 3A, 45 watts
PA2444UE	Universal AC adaptor 15V, 4A, 60 watts for 15.0" and Mobile Pentium III at 600/650/700 MHz with SpeedStep technology model
PA2487URG	Lithium-ion battery pack
PA2488U-E	Battery charger for main battery

Docking

PA Number	Article
PA2731U-E	Port Replicator
PA2717UYN	Card Station III (to be used with Card Station III Spacer)
PA2730U	Card Station III Spacer
PA3024E-1PRP	Card Station IV