

TECRA 8000 Series Product Specifications

FEATURED Configurations	DESCRIPTION																
PAT800U-KB51	PII366, 14.1", 64MB, 10.0GB HDD, 24X Max CD-ROM, Modem, Windows 95																
PAT80AU-4B51	PII400, 14.1", 64MB, 10.0GB HDD, 24X Max CD-ROM, Modem, Windows 95																
PAT80AU-4K71	PII400, 14.1", 128MB, 14.1GB HDD, DVD, NO Modem, Windows 95																
PAT80AU-PB72	PIII500, 14.1", 64MB, 10.0GB HDD, DVD, NO Modem, Windows 98																
PROCESSOR (All Models)	Intel® Mobile Pentium® III or Intel® Mobile Pentium® II																
Processor options	Pentium III models: 500MHz (1.6v); Pentium II models: To 400MHz (1.6v)																
Integrated Coprocessor	Yes																
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)																
LEVEL 2 (L2) CACHE	Yes: Integrated into CPU																
Capacity	256KB																
Type of cache memory	Pipelined Burst Synchronous SRAM																
Front Side Bus Speed	100MHz (PIII models); 66MHz (PII models)																
Supported Standards	ACPI v1.0 Ready, Wired for Management v.1.1a																
MEMORY: 64 Mbit SO-DIMM SDRAM, 3.3V (All Models)																	
Standard	<i>See Featured Configurations (2 memory slots, one configured)</i>																
Maximum	256MB																
Speed (<i>installed memory</i>)	Pentium III models: PC100; Pentium II models: PC66 Memory must match Front Side Bus Speed or greater PC100 memory may be used for all memory upgrades																
Data/Address Bus width	64 bit/32-bit																
Front Side Bus speed	100MHz (Mobile Pentium III models); 66MHz (Mobile Pentium II models)																
BIOS (All Models)	Yes: (512KB 4Mbit FLASH EEPROM, 3.3V)																
Standards supported	APM 1.2, ACPI 1.0, PnP 1.0A, VESA 2.0, DMI 2.0, DDC2B, DPMS, , PCI BIOS 2.1																
SYSTEM ARCHITECTURE	<u>Chipset</u> <u>Connecting Devices</u>																
Intel Mobile Pentium III models																	
PCI BUS (v2.2): (32-bit, 33 MHz)	Intel 82443BX Graphic Controller, PC Card Slots, Expansion Bus, Modem DSP, HDD, CD-ROM, FIR controller																
ISA BUS: (8-bit/16-bit, 8 Mhz)	N/A BIOS, Sound chip, Keyboard controller																
ISA BUS: (8-bit/8-bit, 8 Mhz)	N/A Floppy disk controller																
Intel Mobile Pentium II models																	
PCI BUS (v2.1): (32-bit, 33 MHz)	Intel 440BX Graphic Controller, PC Card Slots, Expansion Bus, Modem DSP, HDD, CD-ROM, FIR controller																
ISA BUS: (8-bit/16-bit, 8 Mhz)	N/A BIOS, Sound chip, Keyboard controller																
SYSTEM MANAGEMENT (All Models)																	
ACPI 1.0	Yes																
DMI 2.0 w/asset tag capability	Yes																
Wired for Management 1.1a	Yes: supports Wake-on-LAN, Alert-on-LAN, & remote service boot																
Intel® LANDesk® Client Manager 3.3	Yes																
SMS Connect for DMI BIOS integration	Yes																
Year 2000 compliance	Yes: NSTL Hardware tested																
Toshiba Configuration Builder CD	Yes: Customized software configuration tool to reduce image creation time																
STORAGE (See Featured Configurations)																	
PRIMARY HDD (2.5")																	
Interface	Enhanced IDE (ATA-4) with Local Bus support																
Type	User-Removable																
Burst Data Transfer Rate	Ultra DMA Mode2 (33MB/s); DMA mode2 (16.6MB/s), PIO Mode 4 (16MB/s)																
HDD options	<table border="1"> <thead> <tr> <th>Capacity</th> <th>Access Time (Avg.)</th> <th>Buffer</th> <th>Height (Max)</th> </tr> </thead> <tbody> <tr> <td>6.4 billion bytes</td> <td>13ms</td> <td>420 or 512KB</td> <td>12.7mm</td> </tr> <tr> <td>10.0 billion bytes</td> <td>12ms</td> <td>420 or 512KB</td> <td>12.7mm</td> </tr> <tr> <td>14.1 billion bytes</td> <td>12ms</td> <td>420KB</td> <td>17mm</td> </tr> </tbody> </table>	Capacity	Access Time (Avg.)	Buffer	Height (Max)	6.4 billion bytes	13ms	420 or 512KB	12.7mm	10.0 billion bytes	12ms	420 or 512KB	12.7mm	14.1 billion bytes	12ms	420KB	17mm
Capacity	Access Time (Avg.)	Buffer	Height (Max)														
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SELECT BAY DEVICES (For Use in SelectBay Only)

Modular CD-ROM (Optional -- As Listed)	Featured SKU or Accessory Option (Part# PA 2665U)	
Speed (Max)	5.25" 24X Max. speed	
Type	12.7mm Slimline (Weight .62lbs.)	
<i>Desk Station V Plus Compatibility</i>	Yes: Requires SelectBay Adapter (Part # PA2666U)	
Interface	Enhanced IDE (ATA-4) with Local Bus support	
Buffer	128KB	
Random Access Time	130 ms @ 24X Max speed	
Average Sustained Transfer Rate	3600KB/sec @ 24X Max speed; 2400KB/sec @ 16X Average speed	
Burst Data Transfer Rate	PIO Mode 4 (16.7MB/sec) or DMA Mode 1 (13.3MB/sec)	
CD-ROM Compatibility	Red Book, Yellow Book, CD-ROM XA, CD-I, Bridge(Photo-CD,), CD-I, CD-I ready, CD-G, Multisession(Photo-CD, CD Extra), and CD-RW (Read only)	
Modular DVD-ROM	Featured SKU or Accessory Option (Part# PA2664U-2834)	
Accessory Option (purchased separately)	Requires both DVD-ROM Kit (PA2664U) & MPEGII Kit (Part# PA2834U)	
Installation Requirement	Not user installable; requires installation by Authorized Service Provider	
Operating System compatibility	Windows 95/98 only (Will not play movies under Windows NT)	
Type	12.7mm Slimline (Weight .62 lbs.)	
<i>Desk Station V Plus Compatibility</i>	Yes: Requires SelectBay Adapter Part # PA2666U	
Interface	Enhanced IDE with Local Bus support	
Buffer	128KB	
CD-ROM compatibility	CD-ROM, CD-R, CD-RW (read only)	
DVD-ROM compatibility	DVD-Video, DVD-ROM only (no DVD-RAM)	
DVD-Movie compatibility	Region 1 (North America).	
ActiveMovie support	Yes	
Motion Video Playback	Featured SKU or Accessory Option	
MPEGII video support	Yes: using C-Cube Microsystems ZiVA-PC Decoder chip	
MPEGII audio support	Yes	
Dolby™Digital Surround Sound AC-3	Yes: (5.1 channel, common with Headphone jack/AC3 digital)	
Operation modes	DVD-ROM	CD-ROM
Access Speed (Max)	4X	20X
Random Access Time	140ms	100ms
Sustained Data Transfer rate (Max)	5,408 KB/sec	4104 KB/sec
Burst Data Transfer Rate	Ultra DMA mode 2 (33.3MB/sec), PIO mode 4 (16.7MB/sec), MultiWord DMA mode 2 (16.7MB/sec)	

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SELECT BAY DEVICES (For Use in SelectBay Only) -- Continued					
Second Battery (Optional -- all models)		Part# PA2451UR (includes Battery adapter)			
Type		Li-Ion (10.8V, 3600mAh)			
Dimensions/Weight		4.55"L x 4.05"W x .66"H (Weight: ~ .5 lbs.)			
Modular FDD (All models)		Included/Swappable with CD-ROM or DVD-ROM			
Type		(3.5" 1.44MB, 12.7mm height)			
FDD Dimensions/Weight		4.57"L x 3.78"W x .5"H (Weight: .35lbs.)			
FDD Adapter Dimensions		7.0"L x 5.5"W x .59"H (Weight: .25lbs.)			
Simultaneous FDD & CD-ROM Support		Yes: External FDD adapter included			
Modular HDD (Optional -- See Featured Configurations)					
Type		2.5", 12.7mm Slimline (Requires SelectBay Adapter Part # PA2666U)			
Desk Station V Plus Compatibility		Yes: Requires SelectBay Adapter Part # PA2666U			
Interface		Enhanced IDE (ATA-4) with Local Bus support			
Burst Data Transfer Rate		Ultra DMA Mode2 (33MB/s), DMA Mode2 (16.6MB/s), PIO Mode 4 (16MB/s)			
HDD options		<u>Part Number</u>	<u>Capacity</u>	<u>Access Time</u>	<u>Buffer</u> <u>Weight</u>
		PA2667U	4.0 billion bytes	13ms	512KB .33lbs.
		PA2668U	6.4 billion bytes	12ms read/14ms write	512KB .31lbs.
DISPLAY (See Featured Configurations)					
Type (All Options)		TFT Active Matrix			
Display options		<u>Size (Diagonal)</u>	<u>Resolution</u>	<u>Dot Pitch</u>	<u>Contrast Ratio</u>
		14.1"	1024 x 768	.28mm x .28mm	100:1
VIDEO (All models)					
Memory: SGRAM		2.5MB (integrated into Controller chip)			
Speed		74.5MHz w/ Hyper Page mode support			
Controller Chip		NeoMagic MagicMedia 256AV (NM2200) w/ 256-bit Data Bus Width			
PCI Bus Architecture w/Bus Master		Yes: 32-bit, 33 MHz			
Graphics Accelerator:		Yes: 128-bit BitBLT engine			
2D Graphics support		BitBLT, H/W Cursor, DirectDraw			
3D Graphics support		Direct3D, OpenGL			
Digital Video Accelerator:		Yes			
YUV-to-RGB color space conversion		Yes			
Scaling Support		Yes			
Zoom (vertical and horizontal)		Yes			
Interpolation (vertical and horizontal)		Yes			
DirectVideo, DirectMPEG support		Yes			
INTERNAL SUPPORT (As Listed)		<u>14.1" Diagonal</u>			
640 x 480		16M colors, Full Screen w/ Stretch			
800 x 600		16M colors, Full Screen w/ Stretch			
1024 x 768		16M colors, Full Screen			
1280 x 1024		256 colors, Virtual Display			
EXTERNAL SUPPORT (All models)		Vert. Refresh Rate (Non-Interlaced)			
		<u>Colors</u>	<u>External Mode/Simultaneous Mode</u>		
640 x 480		16M colors	85Hz/60Hz		
800 x 600		16M colors	85Hz/60Hz		
1024 x 768		16M colors	85Hz/60Hz		
1280 x 1024		256 colors	60Hz/60Hz		

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INTERNAL MODEM	
Option	<i>See Featured Configurations -- Not available with DVD-ROM models</i>
Type	ITU/ K56Flex V.34, V.90
DAA support	US/Canada, WorldWide DAA
Data support	
Protocols supported	ITU-T V.21/V.22/V.22bis/V.23/V.32/V.32bis/V.34/BELL 103/212A
Error correction	MNP 1-4
Data compression	MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression
Fax support	Fax class 1, Class 1 ECM
Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Telephony Functions (<i>Windows 95/98 models only</i>)	
Standard software	Ring Zero RingCentral telephony software
Functions supported	Speaker phone, Telephony Answering Machine, Ring Wake-up Resume, Incoming Call Discrimination
SOUND SYSTEM (As Listed)	
Chipsets:	Yamaha 3D sound effect-enabled OPL3-SA3
Functions supported	
Dolby™ Digital Surround Sound AC-3	<i>Yes: (w/Windows 95/98 only)</i>
Sound formats supported:	SoundBlaster Pro™ v.3.01, MIDI, Windows Sound System v.2.0
16 bit stereo audio playback/record	Yes: w/48kHz maximum sampling rate
Synthesis Policy	FM synthesis with Wavetable software support
Full duplex function	Yes: including simultaneous playback and record
3D Sound support	Yes
DirectSound	Yes
Direct3Dsound	Yes
DirectMusic	Yes
Volume control	Yes
Built-in Microphone (monaural)	Yes
Speaker system	Two top-mounted stereo speakers (28mm, 16 Ω)
KEYBOARD	
84keys, 3mm Travel	Yes: 12 dedicated function keys; Cursor control (8 Keys, Inverted "T")
Windows 95/98 support	Yes
Numeric keypad (Integrated Overlay)	Yes
Integrated Pointing Device	
	AccuPoint™

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EXPANSION SLOTS	LOCATION
Two Stacked PC Card Slot	Yes: Left side (<i>CardBus</i>) -- Slot supports two Type II or one Type III PC Card.
32-bit, 3.3V PC CardBus Support	Yes
16-bit, 5.0V PC Card Support	Yes
<i>Two</i> Internal Memory Slots	Yes: Below left-half of the palm rest (above main HDD)
EXPANSION PORTS	LOCATION
One 9-Pin Serial (16550 UART compliant)	Yes: Rear of unit
One 15-Pin RGB (SVGA video)	Yes: Rear of unit
One 240-pin Expansion Bus	Yes: Rear of unit (<i>for use with Docking Station or Port Replicator</i>)
One 25-Pin Parallel (8 bit ECP)	Yes: Rear of unit
One DC IN port	Yes: Rear of unit
Noteworthy security lock port	Yes: Rear of unit
Microphone (3.5mm mini jack, monoaural)	Yes: Rear of unit
Headphone (3.5mm mini jack, stereo, 16Ω min)	Yes: Rear of unit (<i>stereo, common with Headphone/AC3 digital</i>)
5.1 channel Dolby AC3 Digital port	Yes: On Audio/Video adapter
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes: Rear of unit
One (PS/2) 101 Keyboard/Mouse port	Yes: Rear of unit (<i>supports "Y"Connector</i>)
One NTSC/PAL out port	Yes: Rear of unit
One Fast Infrared port	Yes: Rear of unit (<i>IrDA 1.1:4 Mbps compatible</i>)
One External Floppy Drive port	Yes: Left side
Two Universal Serial Bus (USB) ports	Yes: Left side (<i>Supports 127 devices. Throughput Rate: 12Mbits/sec.</i>)
One Power switch	Yes: Left side
Noteworthy security lock port	Yes: Left side (<i>Use when docked</i>)
One RJ-11 port for internal modem (supplied)	Yes: Right side (<i>Not available on DVD-ROM equipped units</i>)
One Reset Button	Yes: Front of unit
Enhanced Port Replicator II (Optional)	Part# PA2716U
Dimensions/Weight	11.8"W x 6.7"D x 2.6"H (<i>Weight: 3.3 lbs.</i>)
Two Type III CardBus ready PC Card slots	Yes: each slot supports one card
Supported Interfaces	Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, FDD port, lock slot, joystick/MIDI, line-in, line-out, headphone, microphone, lock slot
Network Dock Port Replicator (Optional)	Part# PA2724U
Ethernet connection	10/100BaseT Ethernet (Intel Chipset)
Dimensions/Weight	13.78"W x 13.07"D x 3.03"H (<i>Weight: 3.96 lbs.</i>)
Supported Interfaces	Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA, USB, RJ45 Ethernet, Kensington lock slot, joystick/MIDI, line-in, line-out, headphone, ext. microphone
Desk Station V Plus (Optional)	Part# PA2710UN
Supported Interfaces	(2) Full length 32-bit PCI/16-bit ISA slots; (1) Half Length 32-bit PCI slot; (2) Type III PC Card slots; (1) SCSI II; (1) 5.25" half height drive bay; (1) Select Bay for Modular FDD or CD-ROM
Ports	Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, FDD port, lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone
Other features	Designed for Windows 95 and PNP; Hot Docking Support

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POWER	
45W Autosensing External AC Adapter	4.9"L x 2.46"W x .97" --- .66 lbs. (Part#:NW2450U)
Input (Voltage/Frequency)	100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 3.0A (max)
Battery Type: Li-Ion (10.8V, 3750mAH)	Yes: Part# PA2510U (6.24"L x 3.6"W x .75"H) --- .86 lbs.
Battery Life	<u>One battery</u> <u>Two batteries</u>
	3+ hrs. Up to 7 hrs.
Recharge Time: Main Battery ⁴	<u>Notebook alone</u> <u>Docked In Port Replicator</u> <u>Docked In Desk Station</u>
(Computer Off/On)	2.2 hrs./2.5-6.5hrs. 2.2 hrs./3.6-6.5hrs. 2.2 hrs./3.6-6.5hrs.
Power Savings	APM v.1.2 BIOS support, CPU Sleep mode, HDD Auto Off, Display Auto Off CPU Speed change, Auto Resume, Hibernation, LCD Brightness switch (software)
CERTIFICATIONS (All models)	
USA	UL10950 (UL1012), FCC part15 class B, FCC part68, Energy star
Canada	CSA C22.2 No.950 or c-UL, I.Canada
Europe	EN 60950, CISPR Pub.22 (EN55022), EMC Directive(EMC+Immunity), CTR21 Blue Angel
Japan	JEIDA-37, VCCI EMI standard, Leakage current, Flash voltage, JATE
Australia	SMA, AUSTEL
Russia	GOST
Saudi Arabia	SASO
Switzerland	SEV
Other	Energy Star Compliant, Year 2000 compliant (NSTL Hardware Tested)
CASE CONSTRUCTION	Polycarbonate ABS
DIMENSIONS (All Models)	12.2"L x 9.6"W x 1.6"H
WEIGHT	
13.3" Display models	6.1 lbs. (w/FDD and modem installed)
14.1" Display models	6.5 lbs. (w/FDD, CD-ROM & modem installed)

4. Recharge time may vary depending on condition of battery, and consumption of power for function performed during recharge: eg. use of LCD, HDD/CD-ROM, sound and modem, CardBus card in Port Replicator or PCI card in Desk Station V Plus.

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BUNDLED SOFTWARE (Windows 95 models)

Microsoft® Windows® 95, Customizable Toshiba/My Yahoo! start page, Intel Indeo Video 5.06, Microsoft Net Meeting (2.1), Microsoft Internet Explorer (4.01), Puma IntelliSync 97, RingZero® RingCentral™, Yamaha Sound System, Direct X 6.1, Toshiba Custom Utilities: FN-Esse, HWSetup)

Additional Software on Configuration Builder CD: LANDesk Client Manager 3.3, Microsoft Internet Explorer (4.01), America On Line, On-line Registration, Tecra 8000 User's Guide, SMS Connect

CD's Included: Bootable Configuration Builder Pro™ Compatible CBCD --- *Allows HDD restore, Create custom pre-install, &/or install of individual drivers, Applications, or utilities.*

BUNDLED SOFTWARE (Windows 98 models)

Microsoft® Windows® 98, Customizable Toshiba/My Yahoo! start page, Microsoft Internet Explorer (4.01), Yamaha Sound System, RingZero® Ring Central™, Direct X 6.1, Toshiba Easy Internet Toshiba Custom Utilities: FN-Esse, HWSetup, Time Remain, Power Saver, Hibernation, Shutdown)

Additional Software on Configuration Builder CD: LANDesk Client Manager 3.3, Online User's Guide, SMS Connect

CD's Included: Bootable Configuration Builder Pro™ Compatible CD (CBCD) --- *Allows HDD restore, Create custom pre-install &/or install of individual drivers, Applications, or utilities.*

BUNDLED SOFTWARE (Windows NT models)

Windows NT 4.0, Service Pack 4.0, Intel Video Interactive (32-bit, 5.1), Microsoft Internet Explorer (4.01) export version, Puma IntelliSync 97, CardWizard For Win NT 4.0, Toshiba Windows Nt 4.0 Utilities (FN-Esse, HWSetup, Maxtime)

Additional Software on Configuration Builder CD: Intel LANDesk Client Manager 3.3, Toshiba Docking Service

Tecra 8000 User's Guide, SMS Connection, Puma IntelliSync 97

CD's Included: Configuration Builder CD --- *Allows HDD restore, Create custom pre-install, &/or install of individual drivers, Applications, or utilities.*

SECURITY (All models)

Password security	Power-on, Supervisor, Eject, HDD (for Primary & SelectBay HDD)
Lock mechanisms	Kensington cable lock, Main memory & HDD (screw only), PC Card (by metal plate), Built-in modem (screw only)
Miscellaneous	Keyboard (by Hotkey), Screen blank (by Hotkey)

WARRANTY 3 YR Parts & Labor (battery 1 year)

ENVIRONMENTAL SPECIFICATIONS

	Operating	Non-operating
Temperature:	41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149°F (65°C)
Thermal Gradient 20° C per hour (max.)	--	--
Relative Humidity: Operating	20% to 80% non-condensing	10% to 90% non-condensing
Altitude: Operating	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock: Operating	10G (11ms); 1.5G w/DVD-ROM installed	60G (11ms); 50G w/DVD-ROM installed
Vibration: Operating	0.5G; 0.25G (5~500Hz) w/DVD-ROM	1G; 1G (5~500Hz) w/DVD-ROM