

TOSHIBA PORTEGE 7140 Series Specifications

FEATURED SKU's PP714U-T2W8	DESCRIPTION PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows 98 Configuration Builder CD			
PROCESSOR (All models) Available Processor speeds Integrated Coprocessor Processor Cache (L1) Capacity	Intel Mobile Pentium® III (As Listed: See Featured SKU's) 500MHz (1.6v /core) Yes 32KB: (16KB code; 16KB data)			
LEVEL 2 (L2) CACHE Data Bus Width/Address Bus Width Front Side Bus Speed	Yes: 256KB Integrated into CPU 64-Bit/32-bit 100MHz			
SYSTEM ARCHITECTURE (All models) PCI (V.2.1) Bus: (32-bit, 33 MHz)	<u>Chipset</u> Intel82443BX	<u>Connecting Devices:</u> PC Card, Expansion Bus, Modem DSP, Sound, HDD, FIR and CD-ROM		
AGP (R1.0)	Intel 80443BX	Graphics controller		
ISA Bus: (8/16-bit, 8MHz)	N/A	BIOS ROM, KBC/EC		
ISA Bus: (8-bit, 8mhz)	N/A	FDD		
MEMORY: 128Mbit SO-DIMM PC100 SDRAM, 3.3V (All models) Standard/ Maximum Speed Data Bus Width/Address Bus Width Front Side Bus Speed	64 MB/192 MB PC100 64-bit/32-bit 100MHz			
BIOS (4Mbit FLASH EPROM, 3.3V) Supported standards	Yes: 512KB APM(1.2), ACPI(1.0b), PnP(1.0a), VESA(2.0), DDC2B, DPMS, SM BIOS 2.3 PC BIOS (2.1)			
SYSTEM MANAGEMENT (All Models) ACPI Intel® LANDesk® Client Manager 6.0 Network connection SM BIOS 2.3 w/asset tag capability Wired for Management 2.0 Year 2000 compliance Toshiba Configuration Builder CD	Yes Yes: with S.M.A.R.T. HDD support Yes: Built-in 10/100 Ethernet with optional DVD Network Dock II Yes Yes: supports Wake-on-LAN & Remote Service Boot Yes: NSTL Hardware tested Yes: Customized software configuration tool to reduce image creation time			
STORAGE (All models) FDD (3.5" 1.44MB, 12.7mm height) – External Dimensions/Weight	External use via bundled floppy connector 5.11"(D) x 3.77"(W) x 50"(H) / .345lbs.			
PRIMARY HDD (2.5") Interface Type Certification Burst Data Transfer Rate HDD options	Enhanced IDE (ATA-4) Service-Removable, 2 screws SMART HDD support with LANDesk Client Manager 6.0 33MB/s: Ultra DMA Mode2; 16MB/s: PIO Mode 4 & Multiword mode 2			
	<u>Capacity</u> 6.0 billion bytes	<u>Access Time (Avg.)</u> 12ms	<u>Buffer</u> 1024KB	<u>Height (Max)</u> 9.5mm
INTERNAL MODEM (As Listed) DAA support Data support (All models) Protocols supported Error correction Data compression Fax support (All models) Protocols supported Functions Standard software Functions supported	v.90 / K56flex International DAA ITU-T V.21/V.22/V.22bis/V.23/V.32/V.32bis/V.34/BELL103/212A K56flex, V.90 MNP 1-4 MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression Fax class 1, Class 1 ECM V.21 ch2, V.27 ter, V.29, V.17 (Windows 98/95 only) Ring Zero RingCentral modem software Ring Wake-up Resume			

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PP714U-3190N-T2N4	PIII500, 13.3", 64MB, 6.0bb HDD, Modem, Windows NT Workstation 4.0	
DISPLAY (All models)		
Type	13.3" Diagonal TFT Active Matrix Color, 1024 x 768	
Dot Pitch	0.264mm x .264mm	
Contrast Ratio	150:1	
VIDEO (All models)		
Memory: SGRAM	4MB (<i>integrated into Controller chip</i>)	
Controller Chip	Trident Cyber Blade e4-128	
AGP bus (with side band support)	66MHz	
Graphics Accelerator:	Yes: 128-bit BitBLT engine	
2D Graphics support	BitBLT, H/W Cursor, DirectDraw	
3D Supported Features	AGP supported	
Triangle Setup	Yes	
Modeling	Fogging, Lighting	
Shading	Flat shading, Gouraud shading	
Rendering (Texture mapping)	Bilinear, trilinear, Anti-aliasing, MIP mapping, Z-buffering	
Alpha-blending	Yes	
Direct3D support	Yes	
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	
Motion compensation	Yes	
INTERNAL SUPPORT (All models)		
Full screen	1024 x 768 x 16.7M colors	
Smaller Image	640 x 480 x 16.7M colors	
Smaller Image	800 x 600 x 16.7M colors	
Virtual Image	1280 x 1024 x 64K colors	
Virtual Image	1600 x 1200 x 64K colors	
EXTERNAL SUPPORT (All models)		
	<u>Colors</u>	<u>Vert. Refresh Rate (Non-Interlaced)</u>
640 x 480	16.7M colors	<u>External Mode</u> 60/75/85Hz
800 x 600	16.7M colors	60/75/85Hz
1024 x 768	16.7M colors	60/75/85Hz
1280 x 1024	64K colors	60/75Hz
1600 x 1200	64K colors	60Hz
SOUND SYSTEM (As Listed)		
Chipsets:	ESS ES1978S and ES1918 (codec chip)	
Functions supported		
Sound formats supported:	Windows Sound System 2.0, MIDI, SoundBlaster Pro v. 3.01	
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 (HRTF 3D positional audio, DVD AC-3 speaker virtualization)	
DirectSound support	Yes (Hardware acceleration)	
Direct3Dsound support	Yes	
DirectMusic	Yes (Hardware acceleration)	
Volume control	Yes	
Built-in microphone (monaural)	Yes	
Speaker system (monaural)	Single top-mounted speaker (28mm, 16 Ω)	

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KEYBOARD (All models)		
85 keys with Windows support	Yes (full-size key caps; 2.7mm Travel)	
Key Pitch	19.05mm	
12 dedicated function keys	Yes	
Numeric keypad (Integrated Overlay)	Yes	
Integrated Pointing Device (All models)		
	AccuPoint™ II Pointing Device with Pressure Sensitive Scrolling function	
EXPANSION SLOTS (All models)		
	Location: Left side of unit	
Two Stacked PC Card Slot (CardBus Ready)	Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.	
32-bit, 3.3V PC CardBus Support	Yes	
16-bit, 5.0V PC Card Support	Yes	
Internal Memory Slot (One only)	Yes	
EXPANSION PORTS (All models)		
	LOCATION	
One Microphone (3.5mm mini jack, monaural)	Yes: Front of unit	
One Headphone (3.5mm mini jack, stereo)	Yes: Front of unit	
One 15-Pin RGB (SVGA video)	Yes: Rear of unit	
One DC Power-in Jack	Yes: Rear of unit	
One 240-pin expansion bus	Yes: Bottom of unit	
One Kensington cable lock slot	Yes: Right side	
One RJ11 Port for internal modem	Yes: Right side	
One Fast Infrared port (IrDA1.1: 4Mbps)	Yes: Left side	
One I/O port adapter port (50-pin)	Yes: Left side	
One External Floppy Drive port (26-pin)	Yes: Left side (<i>Compatible with Portégé 7020CT</i>)	
One Universal Serial Bus (USB) port	Yes: Left side (Supports 127 devices. Throughput Rate: 12Mbits/sec.)	
One Power Switch	Yes: Left side	
One Reset button	Yes: Left side	
I/O BAR (Port Expander) -- PA2728U	(1) Standard: Connects to I/O Port Adapter Port – Left side	
One 9-Pin Serial (16550 UART compliant)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One (PS/2) 101 Keyboard/Mouse port	Yes: Supports use of Y-cable	
POWER (All models)		
Autosensing External AC Adapter: PA2450U	1.0"L x .4.9"W x 2.5"H --- Weight: .66lbs.	
Input (Voltage/Frequency)	100-240V; 50-60Hz	
Output (Voltage/Amps)	15 VDC; 3.0A	
Power Output (Watts)	45W	
Battery Type: Li-Ion		
Part number	Standard	Optional (High Capacity)
Battery Rating	<u>PA3000U</u>	<u>PA3002U</u>
Dimensions (LxWxH)	10.8V, 3000mAH	10.8V, 6000mAH
Weight	8.18" x 1.54" x 0.77"	8.18" x 2.63" x 1.28"
Battery Life: (Full Power)	.5 lbs.	1.26 lbs.
Recharge Time (Computer Off/On)	2.0+	4.0+
Power Saving Features	3/4-10 hrs.	N/A
	APM v.1.2 BIOS, CPU Sleep mode , HDD Auto Off, Display Auto Off, CPU speed change, Auto Resume, Hibernation, LCD Brightness switch (software)	

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10/100 Network/ DVD Dock (Optional)	Part Number: PA3007U	
Dimensions/ Weight	11.89"W x 10.12"D x 0.8/0.9"H (<i>Weight: 2.64 lbs.</i>)	
Ethernet connection	10/100BaseT Ethernet (3Com Chipset: 3C920)	
Supported Features		
Suspend/Resume	Yes (Windows 98 & 95 only)	
System Management support	Wake-On-LAN and Remote Service Boot	
Integrated FDD	Yes	
DVD-ROM (Toshiba SD-C2302)		
Operating System compatibility	Windows 95/98 only (Will not play movies under Windows NT)	
Type	5.25", 12.7mm height	
Interface	Enhanced IDE	
Buffer	128KB	
CD-ROM compatibility	CD-DA, CD+G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-Extra, CD-RW, CD-R), CD-I, CD-R (read only), CD-RW (read only)	
DVD-ROM compatibility	DVD-Video, DVD-ROM only (no DVD-RAM), DVD-RW (read only)	
DVD-Movie compatibility	Region 1 (North America).	
ActiveMovie support	Yes	
Motion Video Playback	DVD video	
Decoder (software)	Mediamatics DVD Express	
Operation modes	DVD-ROM	CD-ROM
Access Speed (Max)	6X	24X
Random Access Time	140ms	100ms
Sustained Data Transfer rate (Max)	8,112 KB/sec	3600 KB/sec
Stereo speakers	Yes	
Ports		
One 240-pin expansion bus	Yes	
One 9-Pin Serial (16550 UART compliant)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One SVGA port	Yes	
One (PS/2) 101 Keyboard port	Yes	
One (PS/2) Mouse port	Yes	
Two Universal Serial Bus (USB) port	Yes: Supports 127 devices. Throughput Rate: 12Mbits/sec.	
One Composite Video port (NTSC/PAL)	Yes	
One RJ-45 Ethernet port	Yes	
One Headphone	Yes: (3.5mm mini jack, stereo)	
One Line-in	Yes: (3.5mm mini jack, stereo, 2V rms)	
One Line-out	Yes: (3.5mm mini jack, stereo, 0.7V rms)	
One DC-in port	Yes	
One Manual volume control	Yes	
One Cable lock slot	Yes	

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CERTIFICATIONS (All models)		
USA	UL 1950, FCC Part 15 class B, FCC part 68	
Canada	CSA C22.2 No 950 or c-UL (CSA223), I.Canada	
Europe	EN 60950, CISPR Pub.22(EN55022), EMC Directive(EMC+Immunity), CTR21	
Japan	JEIDA-37, VCCI class B, Leakage current, Flash voltage, JATE	
Australia	AUSTEL, SMA	
Other	Energy Star Compliant, Year 2000 compliant (NSTL Hardware Tested)	
CASE CONSTRUCTION		
<i>Magnesium for extra rigidity and durability</i>		
DIMENSIONS (All models)		
11.7"W x 9.5"D x 1.1"H (0.92"Front)		
WEIGHT (includes . 5 lb. battery)		
4.4 lbs.		
BUNDLED SOFTWARE (Windows 95 models)		
Microsoft® Windows® 95, Toshiba Easy Internet, Microsoft Internet Explorer 5.0 (Export Version), Mediamatics DVDEExpress Software Decoder, Toshiba Utilities (FN-Esse, HWSetup, Hibernation, Power Management Utility Supporting ACPI-M3.0), RingZero® RingCentral™ modem software, Puma IntelliSync 97		
<i>Additional Software on Configuration Builder CD:</i> LANdesk Client Manager 6.0, SMS Connect 2.0, User's Guide, Online Registration		
<i>CD's Included:</i> Bootable Windows 95/98/NT Configuration Builder CD, Companion Diskette		
BUNDLED SOFTWARE (Windows 98 models)		
Microsoft® Windows® 98 Second Edition, Toshiba Easy Internet, Microsoft Internet Explorer 5.0 (Export Version), RingZero® RingCentral™ modem software, Medimatics DVDEExpress Software Decoder, Toshiba Utilities (FN-Esse, HWSetup, Hibernation, Power Management Utility Supporting ACPI-M3.0)		
<i>Additional Software on Configuration Builder CD:</i> LANdesk Client Manager 6.0, SMS Connect 2.0, User's Guide, Online Registration		
<i>CD's Included:</i> Bootable Windows 98 Configuration Builder CD, Companion Diskette		
BUNDLED SOFTWARE (Windows NT models)		
Microsoft® Windows® NT 4.0, Service Pack 5.0, Microsoft Internet Explorer v. 5.0 (export version), Puma IntelliSync 97, SystemSoft Card Wizard, Medimatics DVDEExpress Software Decoder		
Toshiba Utilities (FN-Esse, HWSetup, Hibernation, Power Management Utility Supporting ACPI-M3.0)		
<i>Additional Software on Configuration Builder CD:</i> Intel LANdesk Client Manager 6.0, SMS Connect 2.0, Electronic manual,		
<i>CD's Included:</i> Bootable Configuration Builder CD, Companion Diskette		
SECURITY (All models)		
Password security	Power-on, Supervisor, HDD, Eject	
Lock mechanisms	Kensington cable lock, Main memory & HDD (screw only), PC Card (when docked)	
Miscellaneous	Keyboard (by Hotkey), Screen blank (by Hotkey)	
WARRANTY (All models)		
3 YR Parts & Labor (1 YR Battery)		
ENVIRONMENTAL SPECIFICATIONS (All models)		
	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.)	N/A	N/A
Relative Humidity	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:	10G (11ms); 1.5G (docked)	60G (66ms); 50G (docked)
Vibration:	0.5G (5~500Hz); 0.25G (docked)	1G (5~500Hz); 1G (docked)