

TOSHIBA PORTEGE 3020CT Specifications

FEATURED SKU's	DESCRIPTION		
PAP302U-T2W8	P300, 10.4", 32MB, 6.4bb HDD, Modem, Windows 98 w/ dual linked Win95/98 Configuration Builder CD		
PAP302U-T2N4	P300, 10.4", 32MB, 6.4bb HDD, Modem, Windows NT Workstation 4.0		
PROCESSOR			
Integrated Coprocessor	Yes		
Processor Cache	32KB: (16KB code; 16KB data)		
External data bus width	64 bit		
External data/address bus speed	66 MHz		
LEVEL 2 (L2) CACHE			
	Yes: 512KB		
Data Memory Type	2 Mbit Pipelined Burst Synchronous SRAM		
Data Bus Width	64 Bit		
Access Time	8 ns		
Local Bus Clock Speed	66 MHz		
SYSTEM ARCHITECTURE			
PCI (V.2.1) Bus: (32-bit, 33 MHz)	<u>Connecting Devices:</u> PC Card Slots; Infrared port; USB, KBC, Sound chip, HDD		
MEMORY: 64Mbit EDO DRAM, 3.3V			
Standard	32 MB		
Maximum	96 MB		
Speed	60ns		
Hyper Page mode memory access	Yes		
Data/address bus width	64 bit/32 bit		
Local Bus Clock Speed	66 MHz		
BIOS (4Mbit FLASH EPROM)			
Supported standards	Yes: 512KB APM (V.1.2); ACPI (V.1.0); PnP 1.0a ;VESA (V.2.0); DPMS, DCC, DMI (V.2.0)		
DISPLAY			
Type	10.4" Diagonal TFT Active Matrix Color, 800 x 600		
Dot Pitch	0.264mm x .264mm		
Contrast Ratio	150:1 (Min)		
VIDEO			
Memory: EDO-DRAM	2MB (<i>integrated into Controller chip</i>)		
Speed	50ns		
Hyper Page mode support	Yes		
Controller Chip	NeoMagic (2160) <i>w/128-bit Data Bus Width</i>		
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz		
Graphics Accelerator:	Yes: supports BiTBTLT, H/W Cursor, Scaling		
Digital Video Accelerator:	Yes		
YUV-to-RGB color space conversion	Yes		
INTERNAL SUPPORT			
Full Screen (Using Stretch Utility)	640 x 480 x 16.7M colors		
Full Screen	800 x 600 x 16.7M colors		
Virtual Display mode	1024 x 768 x 64K colors		
EXTERNAL SUPPORT			
	<u>Colors</u>	<u>Vert. Refresh Rate (Non-Interlaced)</u>	
640 x 480	16.7M colors	85 Hz	
800 x 600	16.7M colors	85 Hz	
1024 x 768	64K colors	75 Hz (interlace)	

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STORAGE		
HDD (2.5" Enhanced IDE)	6.4 billion bytes (13msec)	
Height	8.45mm	
Buffer	512KB	
Burst Data Transfer Rate	Ultra DMA, PIO Mode 4	
FDD (3.5" 1.44MB) -- External	Bundled	
CD-ROM (Optional)	External using PC Card	
5.25" 20X Max. speed		
KEYBOARD		
84 keys with Windows 95/98 support	Yes (full-size key caps; 2mm Travel)	
Key Pitch	18mm	
12 dedicated function keys	Yes	
Cursor control (8 Keys, Inverted "T")	Yes	
Numeric keypad (Integrated Overlay)	Yes	
Integrated Pointing Device	AccuPoint™	
EXPANSION SLOTS		
Two PC Card Slots	Yes: 1-right side & 1-left side	
32-bit, 3.3V PC CardBus Support	Yes	
16-bit, 5.0V PC Card Support	Yes	
Internal Memory Slot (One only)	Yes	
EXPANSION PORTS		
LOCATION		
One Power-in Jack	Yes: Rear of unit	
One 132-pin expansion bus	Yes: Left side	
One Universal Serial Bus (USB) port	Yes: Right side (Supports 127 devices. Throughput Rate: 12Mbits/sec.)	
One Fast Infrared port (IrDA2.0: 4Mbps)	Yes: Right side	
One External Floppy Drive port	Yes: Right side	
Microphone (3.5mm mini jack, monoaural)	Yes: Right side	
One Headphone (3.5mm mini jack, stereo)	Yes: Right side	
One Noteworthy security lock port	Yes: Right side	
I/O BAR (Port Expander)	(1) Standard: Connects to 132-pin expansion bus -- rear of unit	
One 15-Pin RGB (SVGA video)	Yes	
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	
Portege "Mini" I/O BAR Adapter	Connects to 132-pin expansion bus -- rear of unit	
One (PS/2) 101 Keyboard/Mouse port	Yes: Supports use of Y-cable	
One 15-Pin RGB (SVGA video)	Yes	
POWER		
Autosensing External AC Adapter: PA2501U	3.94" L x 1.97" W x .98" D --- .46 lbs	
Input (Voltage/Frequency)	100-240V; 50-60Hz	
Output (Voltage/Amps)	15 VDC; 2.0A	
Power Output (Watts)	30W	
Battery Type: Li-Ion		
	<u>High Capacity Battery (Bundled)</u>	<u>Lightweight Battery (Optional)</u>
Part Number	PA2458UR	PA2457UR
Capacity	10.8V, 2600mAh	10.8V, 1300mAh
Battery Life (Full/Low)	2.6 hrs./3.8 hrs	1.3 hrs./1.9 hrs
Recharge Time (Computer Off/On)	6 hrs./12 hrs.	3 hrs./6 hrs.
Dimensions	8.16"(L)x1.6"(H)x.79"(W)	8.16"(L)x.86"(H)x.79"(W)
Power Saving Features	APM v.1.2 BIOS, Processing speed change, Auto Resume, Hibernation, LCD Brightness switch (software)	

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PC Card MODEM (Bundled) -- (All Models)	3Com-Noteworthy 56K PC Card Modem (XJ1560)	
Data support		
Protocols supported	Bell-103 & 212A, V.21, V.23, V.22, V.22bis, V.32, V.32bis, V.34, V.34+, V.90	
Error correction	V.42	
Data compression	V.42 bis	
Fax support	Group 3, EIA Class 1, EIA Class 2.0	
Protocols supported	V.17, V.21 Channel 2, V.27 ter, V.29	
Features	X-Jack Connector, Flash DSP/Flash ROM, Digital Line Guard, Hot Swapping, Intelligent Auto Install	
SOUND SYSTEM	Yamaha Sound System	
Chipsets:	Yamaha OPL3-SA3	
16-bit stereo audio playback/record	Yes	
Maximum Sampling Rate	44.1 kHz	
FM Synthesis support	Yes	
Full duplex support	Yes	
Built-in Speaker	Yes (monaural, located on left side under palm rest)	
Built in Microphone	Yes (monaural, located on right side)	
3D Sound support	Yes: when connected to stereo speakers	
Sound formats supported:	SoundBlaster Pro™ V3.01, MIDI, Windows Sound System V2.0	
DIMENSIONS	10.12"W x .78"H x 8.5"D	
WEIGHT	2.9 lbs. (with Enhanced battery)	
BUNDLED SOFTWARE	(Windows 98 models)	
Windows 98; Ring Zero Ring Central; Toshiba Controls (Power Saver, Hibernation, Quick Hibernation, Hotkey, HW Setup); Direct X 6.0; America On Line Update; AT&T WorldNet® Service; Yahoo; Quicken Basic 99; Intel Indeo Video; Microsoft NetMeeting; Symantec Norton Antivirus Scanner; User's Guide		
<i>Additional Software on Configuration Builder CD:</i> DMI utility; SMS Connect		
<i>CD's Included: Dual-Linked Windows 98/95 Configuration Builder CD</i>		
BUNDLED SOFTWARE	(Windows NT models)	
Windows NT 4.0, Service Pack 3; Yamaha Audio Rack; Microsoft Internet Explorer v.3.02 (export version); Puma IntelliSync 97; Intel Indeo Video Interactive (32-bit, v.4.1); SystemSoft Card Wizard v.5.0; Toshiba Utilities (FN-Esse, Power Saver, HW Setup)		
<i>Additional Software on Configuration Builder CD:</i> Intel LANDesk Client Manager 3.3; Electronic manual; Microsoft Internet Explorer v4.01 (export version)		
CD's Included: Configuration Builder CD --- <i>Allows HDD restore, Create custom pre-install, &/or install of individual drivers, applications, or utilities.</i>		
SECURITY	Miscellaneous	Screen blank (by Hotkey), keyboard (by Hotkey)
	Lock mechanisms	Noteworthy cable lock
	Password security	Power-on, supervisor, HDD
WARRANTY	1 YR Parts & Labor (1 YR Battery)	
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.)	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; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration:	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed

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