

# TOSHIBA PORTEGE 3015CT Specifications

## PART# PAP301U-T6W8

<b>PROCESSOR</b>	Intel Pentium® 266Mhz (2.0V/2.5V) w/MMX Technology		
Integrated Coprocessor	Yes		
Processor Cache	32KB: (16KB code; 16KB data)		
External data bus width	64 bit		
External data/address bus speed	66 MHz		
<b>LEVEL 2 (L2) CACHE</b>	Yes: 512KB		
Data Memory Type	1 Mbit Pipelined Burst Synchronous SRAM (2.5V)		
Data Bus Width	64 Bit		
Access Time	8 ns		
Local Bus Clock Speed	66 Mhz		
<b>SYSTEM ARCHITECTURE</b>	<u>Connecting Devices:</u>		
PCI (V.2.1) Bus: (32-bit, 33 MHz)	PC Card Slots; Video chipset; USB port		
ISA Bus: (16-bit, 8mhz)	FDD; HDD; CD-ROM; BIOS ROM, KBC, Sound chip		
<b>MEMORY: 64Mbit EDO DRAM, 3.3V</b>			
Standard	32 MB		
Maximum	96 MB		
Speed	60ns		
Hyper Page mode memory access	Yes		
Data width	64 bit		
Local Bus Clock Speed	66 MHz		
<b>BIOS (4Mbit FLASH EPROM)</b>	Yes: 512KB		
Supported standards	APM (V.1.2); ACPI; PnP 1.0a ;VESA (V.2.0); DPMS, DCC, DMI (V.2.0)		
<b>DISPLAY</b>			
Type	10.4" Diagonal TFT Active Matrix Color, 800 x 600		
Dot Pitch	0.19mm x .19mm		
Contrast Ratio	100:1 (Min)		
<b>VIDEO</b>			
Memory: <b>EDO-DRAM</b>	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 BiTBLT, H/W Cursor, Scaling		
Digital Video Accelerator:	Yes		
YUV-to-RGB color space conversion	Yes		
<b>INTERNAL SUPPORT</b>			
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		
<b>EXTERNAL SUPPORT</b>	<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)	
<b>STORAGE</b>			
<b>HDD (2.5" Enhanced IDE)</b>	4.3 billion bytes (13msec)		
Height	8.45mm		
Buffer	512KB		
Burst Data Transfer Rate	PIO Mode 4		
<b>FDD (3.5" 1.44MB) -- External</b>	Bundled		
<b>CD-ROM (Optional)</b>	Part Number NW24XCD		
5.25" 24X Max. speed	External using PC Card		

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<b>PC Card MODEM (Bundled) -- (All Models)</b>	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+, <b>V.90</b>
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
<b>SOUND SYSTEM</b>	
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
<b>KEYBOARD</b>	
84 keys <i>with Windows 95/98 support</i>	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
<b>Integrated Pointing Device</b>	AccuPoint™
<b>EXPANSION SLOTS</b>	
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
<b>EXPANSION PORTS</b>	
One Power-in Jack	<b>LOCATION</b> 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
<b>I/O BAR (Port Expander)</b>	<b>(1) Standard: Connects to 160-pin expansion bus -- rear of unit</b>
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
<b>Portege "Mini" I/O BAR Adapter</b>	<b>Connects to 132-pin expansion bus -- rear of unit</b>
One (PS/2) 101 Keyboard/Mouse port	Yes: Supports use of Y-cable
One 15-Pin RGB (SVGA video)	Yes

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### POWER

<b>Autosensing External AC Adapter: PA2501U</b>	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>
Part Number	PA2458UR
Capacity	10.8V, 2600mAh
Battery Life	Up to 3.8 hrs
Recharge Time (Computer Off/On)	6 hrs./12 hrs.
Power Saving Features	APM v.1.2 BIOS, Processing speed change, Auto Resume, Hibernation, LCD Brightness switch (software)

### DIMENSIONS

10.11"W x .78"H x 7.83"D

### WEIGHT

2.91 lbs. (with Enhanced battery)

### BUNDLED SOFTWARE

Windows 98; Norton Anti-Virus Scan and Repair; Prodigy Internet; Quicken Intuit Basic; Ring Zero Ring Central (modem application); Toshiba Custom Utilities; Online Documentation

**CD's Included: Configuration Builder; Microsoft Money 98; Microsoft Bookshelf 98; Microsoft Outlook 98; Microsoft Encarta 98 (2 CD set)**

### Choice of a Total of 5 Additional Software Titles

*Lotus® SmartSuite Millennium Edition (counts as 5 selections)*

<p><b><u>Mobile Productivity</u></b> Laplink Rand McNally Trip Planner USA 98: Streets &amp; Destinations Print Artist 4.0</p>	<p><b><u>K-6 Education</u></b> Math Blaster 6-9 The Way Things Work Ultimate Creativity &amp; Writing Center Eyewitness Children's Encyclopedia Freddi Fish 2: The Case of the Haunted Schoolhouse™</p>
<p><b><u>7-12 Education</u></b> Algebra Blaster Encyclopedia of Science Student Writing Center Higher Score Guaranteed ACT/SAT/PSAT</p>	<p><b><u>Entertainment</u></b> Don't Know Jack 3 Sierra Front Page Sports Skiing Abe's Oddysee Total Annihilation</p>

<b>SECURITY</b>	Miscellaneous	Screen blank (by Hotkey), keyboard (by Hotkey)
	Lock mechanisms	Noteworthy cable lock
	Password security	Power-on & supervisor

**WARRANTY** 1 YR Parts & Labor (1 YR Battery)

### ENVIRONMENTAL SPECIFICATIONS

	<b><u>Operating</u></b>	<b><u>Non-operating</u></b>
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