TOSHIBA PORTEGE 320CT Specifications
PART# PA1274U-T2A

PROCESSOR	Intel Pentium® 266Mhz (1.8V/2.5V) w/MMX Technology
External data bus width	64 bit
External data/address bus speed	66 MHz
Integrated Coprocessor	Yes
Processor Cache	32KB: (16KB code; 16KB data)
LEVEL 2 (L2) CACHE	Yes: 512KB
Data Memory Type	2 Mbit Pipelined Burst Synchronous SRAM (2.5V)
Data Bus Width	64 Bit
Access Time	8 ns
Cacheable main memory area	Up to 64 MB
Local Bus Clock Speed	66 Mhz
SYSTEM ARCHITECTURE	<u>Connecting Devices:</u>
PCI (V.2.1) Bus: (32-bit, 33 MHz)	PC Card Slots; Graphics, Modem & USB Controllers
ISA Bus: (16-bit, 8mhz)	BIOS, KBC, Sound chip
MEMORY: 64Mbit **EDO DRAM,** 3.3V	
Standard	32 MB
Maximum	96 MB
Speed	60ns
Hyper Page mode memory access	Yes
Data width	64 bit
Local Bus Clock Speed	66 MHz
BIOS (4Mbit FLASH EPROM)	Yes: 512KB
Supported standards	APM (V.1.2); PnP 1.0a ;VESA (V.2.0); DPMS, DCC2, DMI
DISPLAY	
Type	Panoramic Active Matrix Color (16:9 aspect ratio)
Size	10.4" Diagonal
Resoltuion	1024 x 600
Dot Pitch	0.22mm x 0.22mm
Contrast Ratio	100:1 (min)
VIDEO	
Memory: 4Mbit EDO DRAM, 3V	2 MB
Speed	50ns
Hyper Page mode support	Yes
Controller Chip	Chips & Technology (B65555) *w/64-bit Data Bus Width*
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz
Graphics Accelerator:	Yes: Supports 64-bit BitBLT, H/W Cursor, DirectDraw, Direct3D
Digital Video Accelerator:	Yes
YUV-to-RGB color space conversion	Yes
Scaling Support	Yes
Zoomed Video Port Support	Yes
Interpolation	Yes
DirectVideo, DirectMPEG support	Yes
INTERNAL SUPPORT	
Full screen	1024 x 600 x 16.7M colors
Smaller Image	640 x 480 x 16.7M colors
Smaller Image	800 x 600 x 16.7M colors

EXTERNAL SUPPORT

	Colors	Vert. Refresh Rate (Non-Interlaced)
640 x 480	16.7M colors	75 Hz (95Hz max @ 64K colors)
800 x 600	16.7M colors	75 Hz (85Hz max @ 64K colors)
1024 x 768	64K colors	75 Hz (85Hz max @ 256 colors)
1280 x 1024	256 colors	60Hz

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STORAGE	
HDD (2.5" Enhanced IDE)	4.0 billion bytes = 3.82GB (13msec read /14 msec write)
FDD (3.5" 1.44MB) -- External	Bundled: Plugs into I/O BAR (Port Expander)
CD-ROM	See Optional Multimedia Port Replicator Section

KEYBOARD	
84 keys *with Windows 95 support*	Yes (full-size key caps; 3mm Travel)
Key Pitch	18mm (alpha characters); 17mm (remaining keys)
12 dedicated function keys	Yes
Cursor control (8 Keys, Inverted "T")	Yes
Numeric keypad (Integrated Overlay)	Yes

Integrated Pointing Device	AccuPoint™

EXPANSION SLOTS	
Two Stacked PC Card Slot[1]	Yes: CardBus & ZV Card Ready
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 15-Pin RGB (SVGA video)	Yes: Rear of unit
One 160-pin expansion bus	Yes: Rear of unit
One Power-in Jack	Yes: Rear of unit
One Fast Infrared port (IrDA2.0: 4Mbps)	Yes: Top of unit
One Universal Serial Bus (USB) port	Yes: Left side (Supports 127devices. Throughput Rate: 12Mbits/sec.)
One RJ11 Port for internal modem	Yes: Left side
One Headphone (3.5mm mini jack, stereo)	Yes: Left side
One Noteworthy security lock port	Yes: Right side
I/O BAR (Port Expander)	**(1) Standard: Connects to 160-pin expansion bus -- rear of unit**
One 9-Pin Serial (16550 UART compliant)	Yes
One 25-Pin Parallel (8 bit ECP)	Yes
One External Floppy Drive port	Yes
One (PS/2) 101 Keyboard/Mouse port	Yes: Supports use of Y-cable

POWER	
Autosensing External AC Adapter: PA2440U	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 (10.8V, 2400mAh)	Yes: Part# PA2441URA (one standard)
Battery Life: (Full Power)	Standard Battery: 2.5 hr. Optional High Capacity Battery: 3.5hr.
Recharge Time (Computer Off/On)	2.5 hr./3-9 hr.
MaxTime® Power Management	Yes

INTERNAL MODEM		
DAA Support		K56Flex Voice/Data/Fax modem *w/V.80 for Video Conferencing*
DAA Support		US/Canada/Japan
Data support	Protocols supported	Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34, V.80
	Error correction	MNP 1-4
	Data compression	MNP 5, CCITV V.42bis
Fax support		Fax class 1
Protocols supported		V.21 ch2, V.27 ter, V.29, V.17
Supported Functions		Speaker Phone, Telephony Answering Machine, Ring Wake-up Resume, Incoming Call Discrimination

[1] Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.

TOSHIBA PORTEGE 320CT Specifications
PART# PA1274U-T2A

SOUND SYSTEM

Chipsets:	Yamaha OPL3-SA3
16-bit stereo audio playback/record	Yes
Maximum Sampling Rate	48 kHz
FM Synthesis support	Yes
Full duplex support	Yes
Built-in Speaker	Yes (monaural)
Built in Microphone	Yes (monaural)
DirectSound, Direct3DSound support	Yes
Sound formats supported:	SoundBlaster Pro™ V3.01, MIDI, Windows Sound System V2.0

Multimedia Port Replicator (Optional)	*(Shipping)*	*(Available May 1998)*
Part Number	**Part# PA2661U**	**Part# PA2662U**
CD-ROM Speed	**10x Average**	**20x Maximum/14X Average**
Size	5.25" (Height: 12.7mm)	5.25" (Height: 12.7mm)
Interface: .ATAPI (Enhanced IDE)	Yes	Yes: *with 128KB buffer*
Random Access Time	180ms	150ms
Sustained Transfer Rate	1500 KB/sec	3000 KB/sec
Supported Disc formats **(All models)**	CD-DA, CD-ROM, CD-ROM XA, CD-Bridge (Photo-CD, Video-CD), CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Plus)	
One 9-Pin Serial (16550 UART compliant)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One External Floppy Drive port	Yes	
One (PS/2) 101 Keyboard/Mouse port	Yes: "Y"connector supported	
One Universal Serial Bus (USB) port	Yes: Supports 127devices. Throughput Rate: 12Mbits/sec.	
One Microphone (3.5mm mini jack, monoaural)	Yes	
One Headphone (3.5mm mini jack, stereo)	Yes	
One Line-in (3.5mm mini jack, stereo, 2V rms)	Yes	
One Line-out (3.5mm mini jack,stereo, 0.7V rms)	Yes	

DIMENSIONS	10.35"W x 1.38"H x 7.56"D
WEIGHT (includes . 6 lb. battery)	3.9 lbs.

BUNDLED SOFTWARE   Windows®95; RingZero RingCentral v.4.xx Telephony application; Mediamatics MPEG ARCADE Pak, Yanmaha Station; Puma IntelliSync 97 (IR Software); Microsoft Internet Explorer 3.02 America Online, CompuServe

CD's Included: OS Recovery CD; Windows 95 Companion CD; Application CD

Application CD: LAN Desk 3.1; Systemsoft Cardworks; Fn-esse; Electronic manual; On-line registration

SECURITY	Miscellaneous	Screen blank (by Hotkey)
	Lock mechanisms	PC Card, keyboard (by Hotkey), Noteworthy cable lock
	Password security	Power-on & supervisor

WARRANTY	3 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