

# SATELLITE 320 SERIES Product Specifications

MODEL	320CDS/4.1 billion bytes	320CDT/4.1 billion bytes
PART NUMBER	PA1271U-S2C	PA1271U-T2C
<b>PROCESSOR (All Models)</b>		
Intel Pentium® 233Mhz (1.8v/2.5v) w/MMX	Yes	
Integrated Coprocessor	Yes	
Processor Cache	32KB: (16KB code; 16KB data)	
<b>LEVEL 2 (L2) CACHE (All Models)</b>		
	Yes: <b>512KB</b>	
Data Bus Width/Data Bus Speed	64 bit/66 MHz	
<b>DATA RAM:</b>		
	Yes	
Type of cache memory	1 Mbit Pipelined Burst Synchronous SRAM, 2.5v	
Access Time	8 ns	
<b>SYSTEM ARCHITECTURE (All Models)</b>		
	<u>Connecting Devices</u>	
PCI BUS (v.2.1): (32-bit, 33 MHz)	PC Card Slots, Graphics Controller, HDD, CD-ROM, FDD	
ISA BUS: 16-bit, 8.25 MHz	BIOS, Sound chip, KBC	
<b>MEMORY: 64Mbit EDO DRAM, 3.3V (All Models)</b>		
Standard	32 MB	
Maximum	160 MB	
Speed	60ns	
Hyper Page mode memory access	Yes	
Data Bus width	64 bit	
Local Bus Clock Speed	66 MHz	
BIOS (512KB: 4Mbit FLASH EPROM, 5V)	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (through Win95); PCI	
PnP 1.0a SUPPORT	Yes	
<b>DISPLAY</b>		
	<b><u>320CDS</u></b>	<b><u>320CDT</u></b>
Type	Color Bright Dual Scan (800 x 600)	TFT Active Matrix Color (800 x 600)
Size	12.1" Diagonal	12.1" Diagonal
Dot Pitch	.30mm x .30mm	.30mm x .30mm
Contrast Ratio	40:1	100:1
<b>VIDEO (All Models)</b>		
Memory: 4Mbit EDO DRAM, 3.3V	2 MB	
Speed	50ns	
Hyper Page mode support	Yes	
Controller Chip	C&T 65555	
Data Bus Width	64-bit	
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz	
Graphics Accelerator:	Yes with 64-bit BitBLT support	
2D graphics support	DirectDraw, H/W Cursor	
3D graphics support	Direct3D	
Digital Video Accelerator:	Yes	
YUV-to-RGB color space conversion	Yes	
Scaling/Interpolation	Yes	
DirectMPEG	Yes	
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft	
Color Palette	16.7M colors	
Internal Support	<u>Resolution</u>	<u>Colors Support</u>
Full Screen	800 x 600	16.7M colors
Smaller Image	640 x 480	16.7M colors
Virtual Display Mode	1024 x 768	64K colors
Virtual Display Mode	1280 x 1024	256 colors
External Support	<u>Resolution</u>	<u>Colors Support</u>
	640 x 480	16.7M colors colors
	800 x 600	16.7M colors colors
	1024 x 768	64K colors
	1280 x 1024	256 colors
		<u>Vertical Refresh Rate (Non-Interlaced)</u>
		85Hz @ 64K color
		85Hz @ 64K color
		60 Hz @ 64K color
		60 Hz @ 64K color

# SATELLITE 320 SERIES Product Specifications

MODEL	320CDS/4.1 billion bytes	320CDT/4.1 billion bytes
PART NUMBER	PA1271U-S2C	PA1271U-T2C
<b>STORAGE (All Models)</b>		
Removable <sup>1</sup> HDD (2.5" Enhanced IDE)	4.1 billion bytes (13msec read/14msec write)	
<b>DRIVE BAY DEVICES (All Models)</b>		
<b>FDD</b> (3.5" 1.44MB; 12.7mm high)	Yes	
Simultaneous FDD & CD-ROM Support	Yes: two independent units	
<b>CD-ROM:</b> (5.25" ; 12.7mm high)	20X Maximum Speed (14X-Average speed)	
Weight	.62 lbs.	
Interface	.ATAPI (Enhanced IDE)	
Random Access Time	135 ms	
Average Sustained Transfer Rate	2,400 KB/sec	
Burst Data Transfer Rate	PIO Mode 4 (16.7MB/sec)	
Supported Disc formats	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)	
<b>KEYBOARD (All Models)</b>		
84/86 keys, 3mm Travel	Yes with Windows 95 key support & 12 dedicated function keys	
Cursor control (8 Keys, Inverted "T")	Yes	
Numeric keypad (Integrated Overlay)	Yes	
<b>Integrated Pointing Device (All Models)</b>	AccuPoint™	
<b>EXPANSION SLOTS (All Models)</b>		
Two Stacked PC Card Slots	Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.	
Support Standards	Yes: Supports 32-bit, 3.3V PC CardBus cards <i>and</i> 16-bit, 5.0V PC card standards	
Internal Memory Slot (One only)	Yes	
<b>EXPANSION PORTS (All Models)</b>		
One 9-Pin Serial (16550 UART compliant)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One 15-Pin RGB (SVGA video)	Yes	
Fast Infrared port (Back only)	Yes: IrDA 1.1:4Mbps compatible	
One (PS/2) 101 Keyboard/Mouse port	Yes: "Y" connector supported	
Universal Serial Bus (USB) port	Yes: Supports 127 devices. Throughput Rate: 12Mbits/sec.	
Microphone (3.5mm mini jack, stereo)	Yes	
Headphone (3.5mm mini jack, stereo)	Yes	
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes	
Noteworthy security lock port	Yes	
<b>PC Card MODEM (Bundled) --- (All models)</b>		
Xircrom Credit Card Modem 56		
Data support		
Protocols supported	Bell-212A, V.23, V.22, V.22bis, V.32, V.32bis, V.34, <b>K56flex</b>	
Error correction	V.42/MNP 2-4	
Data compression	MNP 5, CCITT V.42 bis	
Fax support		
Protocols supported	Group 3, EIA/TIA, Fax class 1	
Command Set	V.17, V.27 ter, V.29	
Command Set	Hayes, Microcom compatible AT commands	

1. One Screw Service removable.

# SATELLITE 320 SERIES Product Specifications

MODEL	320CDS/4.1 billion bytes	320CDT/4.1 billion bytes
PART NUMBER	PA1271U-S2C	PA1271U-T2C
<b>POWER (All models)</b>		
<i>Autosensing External AC Adapter</i>		
	3.94"L x 1.96"W x 0.98"H --- .46 lbs.	
Input (Voltage/Frequency)	100-240V; 50-60Hz	
Output (Voltage/Amps)	15 VDC; 2A (max)	
Power Output (Watts)	30W	
Battery Type: Li-Ion (10.8V, 3600mAH)	Yes (one standard): Part# PA2487URN	
Battery Life: (Full Power)	<b>320CDS:</b> 2.5+ hrs.	<b>320CDT:</b> 3.0 hrs.
Recharge Time (Computer Off/On)	3 - 5 hrs. <i>depending on the computer function performed</i>	
MaxTime® Power Management	Yes	
<b>SOUND SYSTEM (All Models)</b>		
Chipset:	Yamaha OPL3-SA3	
16-bit stereo audio playback/record	Yes	
Maximum sampling rate	48 kHz	
FM Synthesis support	Yes (Soft Wave Table included)	
Full duplex function	Yes	
Sound formats supported:	SoundBlaster Pro™ V3.01, Windows Sound System V2.0	
3D Sound Support	Yes	
Direct3DSound, DirectSound support	Yes: with Windows 95 Game SDK driver from Microsoft	
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)	
<b>DIMENSIONS (All Models)</b>		
	<b>Dimensions</b>	<b>Weight</b>
Notebook	11.96"W x 9.4"D x 2.1"H	6.7 lbs.
AC Adapter	3.94"L x 1.96"W x 0.98"H	.46 lbs.
Battery (Standard)	6.87"L x 2.76"W x .73"H	.88 lbs.
<b>BUNDLED SOFTWARE (All Models)</b>		
Windows®95; Microsoft Internet Explorer 4.01 (export version); Yamaha Audio Rack; Puma Intellisync97 (infrared software), Ring Zero Ring Central Dialer application, Mediamatics Arcade Pak; Symantec Norton Antivirus Scanner 4.0; Prodigy Internet; Intel Indeo Video, Maxtime, Fn-esse™, Online documentation		
<i>CD's Included:</i> Windows® 95 Companion CD; Backup CD; Recovery CD		
<b>SECURITY (All Models)</b>		
Hardware	Cable Lock slot, PC Card lock slot, screen blank, keyboard lock	
Password	Power-on, Supervisor, & HDD password (both drives)	
<b>WARRANTY (All Models)</b>		
1 YR Parts / 1 YR. Labor / 1 YR. Battery		
<b>ENVIRONMENTAL SPECIFICATIONS (All models)</b>		
	<b>Operating</b>	<b>Non-operating</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	
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; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration: Operating	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed