

SATELLITE 320 SERIES Product Specifications

MODEL		320CDS/4.1 billion bytes	320CDT/4.1 billion bytes
PART NUMBER		PA1271U-S2C	PA1271U-T2C
PROCESSOR (All Models)			
Intel Pentium® 233Mhz (1.8v/2.5v) w/MMX		Yes	
Integrated Coprocessor		Yes	
Processor Cache		32KB: (16KB code; 16KB data)	
LEVEL 2 (L2) CACHE (All Models)		Yes: 512KB	
Data Bus Width/Data Bus Speed		64 bit/66 MHz	
DATA RAM:		Yes	
Type of cache memory		1 Mbit Pipelined Burst Synchronous SRAM, 2.5v	
Access Time		8 ns	
SYSTEM ARCHITECTURE (All Models)		<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	
MEMORY: 64Mbit EDO DRAM, 3.3V (All Models)			
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	
DISPLAY		<u>320CDS</u>	<u>320CDT</u>
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
VIDEO (All Models)			
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>	<u>Vertical Refresh Rate (Non-Interlaced)</u>
	640 x 480	16.7M colors colors	85Hz @ 64K color
	800 x 600	16.7M colors colors	85Hz @ 64K color
	1024 x 768	64K colors	60 Hz @ 64K color
	1280 x 1024	256 colors	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
STORAGE (All Models)		
Removable ¹ HDD (2.5" Enhanced IDE)	4.1 billion bytes (13msec read/14msec write)	
DRIVE BAY DEVICES (All Models)		
FDD (3.5" 1.44MB; 12.7mm high)	Yes	
Simultaneous FDD & CD-ROM Support	Yes: two independent units	
CD-ROM: (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)	
KEYBOARD (All Models)		
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	
Integrated Pointing Device (All Models)	AccuPoint™	
EXPANSION SLOTS (All Models)		
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	
EXPANSION PORTS (All Models)		
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 127devices. 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	
PC Card MODEM (Bundled) --- (All models)	Xircom Credit Card Modem 56	
Data support		
Protocols supported	Bell-212A, V.23, V.22, V.22bis, V.32, V.32bis, V.34, K56flex	
Error correction	V.42/MNP 2-4	
Data compression	MNP 5, CCITT V.42 bis	
Fax support	Group 3, EIA/TIA, Fax class 1	
Protocols supported	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
POWER (All models)			
<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)		320CDS: 2.5+ hrs.	320CDT: 3.0 hrs.
Recharge Time (Computer Off/On)		3 - 5 hrs. <i>depending on the computer function performed</i>	
MaxTime® Power Management		Yes	
SOUND SYSTEM (All Models)			
Chipset:		Yamaha OPL3-SA3	
16-bit stereo audio playback/record		Yes	
Maximum sampling ratge		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)	
DIMENSIONS (All Models)		<u>Dimensions</u>	<u>Weight</u>
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.
BUNDLED SOFTWARE (All Models)			
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			
CD's Included: Windows® 95 Companion CD; Backup CD; Recovery CD			
SECURITY (All Models)		Hardware Cable Lock slot, PC Card lock slot, screen blank, keyboard lock	
Password		Power-on, Supervisor, & HDD password (both drives)	
WARRANTY (All Models)		1 YR Parts / 1 YR. Labor / 1 YR. Battery	
ENVIRONMENTAL SPECIFICATIONS		(All models)	
		<u>Operating</u>	<u>Non-operating</u>
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: 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