

## SATELLITE 4000 SERIES Product Specifications

MODEL	4000CDS/4.1 billion bytes	4000CDT/4.1 billion bytes
PART NUMBER	PA1273U-S2C	PA1273U-T2C
<b>PROCESSOR (All Models)</b>		
	Intel Mobile Pentium® II 233Mhz (1.7v/1.8v/3.3v)	
Integrated Coprocessor	Yes	
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)	
<b>LEVEL 2 (L2) CACHE</b>		
	<b>Yes: 512KB Integrated into CPU</b>	
Type of cache memory	1 Mbit Pipelined Burst Synchronous SRAM (3.3v)	
Access Time	8 ns	
Data Bus Width	64 bit	
Data Bus Speed	66 MHz	
<b>SYSTEM ARCHITECTURE (All Models)</b>		
	<u>Chipset</u>	<u>Connecting Devices</u>
PCI BUS (v.2.1): (32-bit, 33 MHz)	Intel 440BX	PC Card Slots, Graphics Controller
ISA BUS: 16-bit, 8.25 MHz	N/A	BIOS, KBC, HDD, CD-ROM, FDD, Sound chip
<b>MEMORY: 64Mbit SDRAM, 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	66.6 MHz	
<b>BIOS (512KB: 4Mbit FLASH EPROM, 5V)</b>		
	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (v.2.0); PCI BIOS	
PnP 1.0a SUPPORT	Yes	
<b>DISPLAY</b>		
	<u>4000CDS</u>	<u>4000CDT</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	.3075mm x .3075mm	.3075mm x .3075mm
Contrast Ratio	40:1 (Typ)	100:1 (Min)
<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	Colors Support	Colors Support
Resolution		
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>Vertical Refresh Rate (Non-Interlaced)</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

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<b>ALL-IN-ONE DESIGN (All Models)</b>		
<b>STORAGE</b>		
Removable HDD (2.5" Enhanced IDE)	4.1 billion bytes (13msec)	
Height	12.7mm	
Burst Data Transfer Rate	Ultra DMA Mode 2 (33.3MB/s); PIO Mode 4 (16.7MB/s)	
<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)	24X Maximum Speed (14X-Average speed)	
Weight	.66lbs.	
Interface	.ATAPI (Enhanced IDE)	
Random Access Time	130 ms	
Average Sustained Transfer Rate	3,600 KB/sec	
Burst Data Transfer Rate	PIO Mode 4 (16.7MB/sec)	
Supported Disc formats	CD-DA, CD-ROM, CD-R, CD-ROM XA, CD-I FMV, Photo CD (Multi-session) Video CD, CD Extra (CD Plus), CD-G, CD-RW (read only)	
<b>PC Card MODEM (Bundled) -- (All Models)</b>		
Data support	3Com-Noteworthy 56K PC Card Modem	
Protocols supported	Bell-103,& 212A, V.23, V.22, V.22bis, V.32, V.32bis, V.34, V.34+, <b>V.90</b>	
Error correction	V.42/MNP 2-5	
Data compression	MNP 5, CCITT V.42 bis	
Fax support	Group 3, EIA/TIA, Fax class 1	
Protocols supported	V.17, V.21 Channel 2, V.27 ter, V.29, V.33	
Command Set	Hayes, Microcom compatible AT commands	
<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>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 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	

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PART NUMBER	PA1273U-S2C	PA1273U-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; 3A (max)	
Power Output (Watts)	45W	
Battery Type: Li-Ion (10.8V, 4000mAH)	Yes (one standard): Part# PA2487URG	
Battery Life: (Full Power)	2.5+ hrs.	
Recharge Time (Computer Off/On)	2.5+ hrs. <i>depending on the computer function performed</i>	
Power Saving Features	APM v.1.2 BIOS, Processing speed change, Suspend/Resume, System Auto Off Low Battery Auto Suspend, Panel Power On/Off, CPU Sleep mode, Display Auto Off LCD Brightness switch (software)	
<b>DIMENSIONS (All Models)</b>		
	<b>Dimensions</b>	<b>Weight</b>
Notebook	11.96"W x 9.4"D x 2.12"H	6.7 lbs.
AC Adapter	4.92"L x 2.48"W x 1"H	.46 lbs.
Battery (Standard)	6.87"L x 2.76"W x .73"H	.88 lbs.
<b>BUNDLED SOFTWARE (All Models)</b>		
Windows®98; Yamaha Audio Rack; Prodigy Internet; Symantec Norton Antivirus Scanner 4.0; Mediamatics Arcade Pak; Ring Zero Ring Central Dialer application, Puma Intellisync97 (infrared software), Intel Indeo Video, Fn-esse™, Online documentation <i>CD's Included:</i> Recovery/Backup CD; Windows 98 Companion CD		
<b>SECURITY</b>		
Hardware	Cable Lock slot, PC Card lock slot, screen blank, keyboard lock	
Password	Power-on, Supervisor, & HDD password	
<b>WARRANTY</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	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