

SATELLITE 4000 SERIES Product Specifications

MODEL	4000CDS/4.1 billion bytes	4000CDT/4.1 billion bytes
PART NUMBER	PA1273U-S2C	PA1273U-T2C
PROCESSOR (All Models)		
	Intel Mobile Pentium® II 233Mhz (1.7v/1.8v/3.3v)	
Integrated Coprocessor	Yes	
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)	
LEVEL 2 (L2) CACHE		
	Yes: 512KB Integrated into CPU	
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	
SYSTEM ARCHITECTURE (All Models)		
	<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
MEMORY: 64Mbit SDRAM, 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	66.6 MHz	
BIOS (512KB: 4Mbit FLASH EPROM, 5V)		
	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (v.2.0); PCI BIOS	
PnP 1.0a SUPPORT	Yes	
DISPLAY		
	<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)
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	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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ALL-IN-ONE DESIGN (All Models)		
STORAGE		
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)	
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)	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)	
PC Card MODEM (Bundled) -- (All Models)		
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+, V.90	
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	
SOUND SYSTEM (All Models)		
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)	
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	

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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; 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)	
DIMENSIONS (All Models)		
	Dimensions	Weight
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.
BUNDLED SOFTWARE (All Models)		
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		
SECURITY		
Hardware	Cable Lock slot, PC Card lock slot, screen blank, keyboard lock	
Password	Power-on, Supervisor, & HDD password	
WARRANTY		
1 YR Parts / 1 YR. Labor / 1 YR. Battery		
ENVIRONMENTAL SPECIFICATIONS (All models)		
	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: 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