

SATELLITE 2540 Series Product Specifications

MODEL	2540CDS/4.3 billion bytes		
PART NUMBER	PAS254U-S2CW8		
PROCESSOR			
333MHz AMD K6-2 processor	Yes: with 3D technology		
Integrated Coprocessor	Yes		
Processor Cache	64KB: (32KB code; 32KB data)		
LEVEL 2 (L2) CACHE	Yes: 512KB		
Access speed	8ns		
Cacheable Main Memory Area	Up to 128MB		
Data/Address Bus Width	64-bit/32-bit		
Local Clock Bus Speed	66 MHz		
SYSTEM ARCHITECTURE	<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		
BIOS	4Mbit Flash EPROM (5V), 512KB		
Supported standards	APM (v.1.2); ACPI; PnP (v.1.0a); VESA (v.2.0); DPMS; DCC2B; DMI (v.2.0); PCI BIOS; CD-ROM & ATA-HDD bootable		
SYSTEM MANAGEMENT	DMI 2.0 BIOS w/asset tag capability; Wired for Management (v.1.1a); ACPI Toshiba Configuration Builder – customize software image tool; Year 2000 Compliant (NSTL Hardware Tested)		
MEMORY: 64Mbit EDO DRAM, 3.3V			
Standard	32 MB		
Maximum	160 MB		
Speed	60ns		
Hyper Page mode memory access	Yes		
Data /Address Bus width	64-bit/32-bit		
Local Bus Clock Speed	66 MHz		
VIDEO			
Memory: 16Mbit SGRAM, 3.3V	2 MB		
Speed	83 MHz		
Controller Chip	S3 Virge™ MX 3D graphics controller		
Data Bus Width	64-bit		
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz		
Graphics Accelerator:	Yes with 64-bit BitBLT support		
DuoView™ Device support	Yes		
2D graphics support	BitBLT, DirectDraw, H/W Cursor		
3D graphics support	Direct3D		
Digital Video Accelerator:	Yes		
YUV-to-RGB color space conversion	Yes		
Zoom	Yes		
Scaling/Interpolation	Yes		
DirectMPEG support	Yes		
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft		
Color Palette	16.7M colors		
Internal Support	<u>Resolution</u>		
	640 x 480	16.7M colors (Smaller Image)	
	800 x 600	16.7M colors (Full Screen)	
	1024 x 768	64K colors (Virtual Display Mode)	
	1280 x 1024	256 colors (Virtual Display Mode)	
External Support	<u>Resolution</u>	<u>Colors Support</u>	
	640 x 480	16.7M colors	85Hz @ 64K color
	800 x 600	16.7M colors	85Hz @ 64K color
	1024 x 768	64K colors	60 Hz @ 64K color
	1280 x 1024	256 colors	60 Hz @ 64K color

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DISPLAY	
Type	Color Bright Dual Scan (800 x 600)
Size	13.0" Diagonal
Dot Pitch	.33mm x .33mm
Contrast Ratio	50:1
Brightness Control	Yes: using SETUP or Power Save Utility
Contrast Control	Yes
ALL-IN-ONE DESIGN	
HDD	
Removable HDD (2.5" Enhanced IDE)	4.3 billion bytes (13msec read/14msec write) – Service Removable
Height	9.5mm
Buffer	512KB
Burst Data Transfer Rate	Ultra DMA33 Mode2 (33.3MB/sec) or PIO Mode 4 (16.7MB/sec)
Local Bus support	Yes
FDD (3.5" 1.44MB; 12.7mm high)	Yes
Simultaneous FDD & CD-ROM Support	Yes: two independent internal units
CD-ROM: (5.25" ; 12.7mm high)	24X Maximum Speed
Weight	.62 lbs.
Interface	.ATAPI (Enhanced IDE) <i>with 128KB buffer</i>
Random Access Time	130 ms
Average Sustained Transfer Rate	3,600 KB/sec
Burst Data Transfer Rate	PIO Mode 4 (16.7MB/sec) or Multi Word DMA Mode2 (16.6MB/sec)
Supported Disc formats	CD-DA, CD-ROM, CD-R, CD-ROM XA, Photo CD (Multisession), Video CD, CD Extra (CD Plus), CD-G, CD-RW (read only)
KEYBOARD	
84 keys, 3mm Travel	Yes
Key support	Windows 95/98, Application
Internet Browser function	F6 key
CD-ROM functions	Skip to Previous track (F7); Play & Stop (F8); Skip to next track (F9)
Dedicated function keys	12 dedicated function keys
Keyboard height	9.5mm
Key Pitch	19.05mm
Cursor control (8 Keys, Inverted "T")	Yes
Numeric keypad (Integrated Overlay)	Yes
Integrated Pointing Device	AccuPoint™
EXPANSION SLOTS	
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 and 16-bit, 5.0V PC card standards
Internal Memory Slot (One only)	Yes
EXPANSION PORTS	
One 9-Pin Serial (16550 UART equivalent)	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, monaural)	Yes
Headphone (3.5mm mini jack, stereo)	Yes
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes
RJ-11 Modem port	Yes
Noteworthy security lock port	Yes

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INTERNAL MODEM	56K Integrated ITU with V.90 support
DAA support	US/Canada and Euro/Australia
Data support	
Protocols supported	Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34, V.90
Error correction	MNP 1-4
Data compression	MNP 5, CCITT V.42 bis
Fax support	
Protocols supported	Fax class 1 V.21 ch2, V.27 ter, V.29, V.17
Telephony Functions	
Standard software	Ring Zero RingCentral telephony software
Supported Functions	Ring Wake-up Resume

POWER	
Autosensing External AC Adapter: PA2450U	4.9"L x 2.46"W x .97"H --- Weight: .66lbs.
Input (Voltage/Frequency)	100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 3.0A
Power Output (Watts)	45W
Battery Type: Li-Ion (10.8V, 4000mAH)	Yes (one standard): Part# PA2487URG
Battery Life: (Full Power)	2.75+ hrs.
Recharge Time (Computer Off/On)	3 hrs./4-10 hrs. <i>depending on the computer function performed</i>
Power Saving Features	APM v.1.2 BIOS, CPU Sleep mode, HDD Auto Off, Auto Resume, Display Auto Off CPU speed change, Hibernation

SOUND SYSTEM	
	Yamaha Sound System
Chipset:	Yamaha OPL3-SA3
16-bit stereo audio playback/record	Yes
Maximum sampling rate	48 kHz
FM Synthesis support	Yes with Soft Wave Table included
Full duplex function	Yes
Sound formats supported:	SoundBlaster Pro™ V3.01, Windows Sound System V2.0, MIDI
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) <i>with volume control</i>

DIMENSIONS	
Notebook	12.2"W x 10.2"D x 1.7"H
AC Adapter	4.9"L x 2.46"W x .97"H
Battery (Standard)	6.87"L x 2.76"W x 0.73"H

WEIGHT	
Notebook	6.8 lbs.
AC Adapter	.66 lbs.
Battery (Standard)	.88 lbs.

BUNDLED SOFTWARE (Windows 98 models)
 Windows® 98; Symantec Norton® Antivirus Scanner; Toshiba/AT&T/Yahoo Internet Offer; Ring Zero® Ring Central™;
AOL update; Intel Indeo Video; **Yamaha Audio Station**; Toshiba Custom Utilities (HWSetup, Quick Hibernation,
 Power Saver, Hotkey utility, Toshiba Hibernation utility); User's Guide
CD's Included: Bootable Linked Windows 98/95 Configuration Builder CD; Toshiba Companion diskette

SECURITY	Hardware	Cable Lock slot; PC Card lock slot; main HDD & modem (by screw only)
	Password	Power-on, Supervisor, & HDD password
	Miscellaneous	Screen blank, Keyboard lock

WARRANTY 1 YR Parts / 1 YR. Labor / 1 YR. Battery

ENVIRONMENTAL SPECIFICATIONS		<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 95% non-condensing
Altitude: Operating		-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock: Operating		10G (11ms)	60G (66ms)
Vibration: Operating		0.5G	1G