

SATELLITE 2545 Series Product Specifications

MODEL	2545CDS/4.3 billion bytes	2545XCDT/4.3 billion bytes
PART NUMBER	PAS254U-S6CW8	PAS254U-T6CW8
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		
	<u>2545CDS</u>	<u>2545XCDT</u>
Standard	32 MB	64 MB
Maximum	160 MB	192 MB
Speed	60ns	60ns
Hyper Page mode memory access	Yes	Yes
Data /Address Bus width	64-bit/32-bit	64-bit/32-bit
Local Bus Clock Speed	66 MHz	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	
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>2545CDS</u>	<u>2545XCDT</u>
	Resolution	Resolution
	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
	800 x 600	16.7M 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

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DISPLAY	<u>2545CDS</u>	<u>2545XCDT</u>
Type	Color Bright Dual Scan (800 x 600)	TFT Active Matrix (1024 x 768)
Size	13.0" Diagonal	14.1" Diagonal
Dot Pitch	.33mm x .33mm	.279mm x .279mm
Contrast Ratio	50:1	100:1
Brightness Control	Yes: using SETUP or Power Save Utility	Yes: using SETUP or Power Save Utility
Contrast Control	Yes	No

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)

Simultaneous FDD & CD-ROM Support	Yes: two independent internal units
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CD-ROM: (5.25" ; 12.7mm high)

24X Maximum Speed	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		
DAA support	56K Integrated ITU with V.90 support	
Data support	US/Canada and Euro/Australia	
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	Fax class 1	
Protocols supported	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		
	<u>2545CDS</u>	<u>2545XCDT</u>
Notebook	12.2"W x 10.2"D x 1.7"H	12.2"W x 10.2"D x 1.6"H
AC Adapter	4.9"L x 2.46"W x .97"H	4.9"L x 2.46"W x .97"H
Battery (Standard)	6.87"L x 2.76"W x .73"H	6.87"L x 2.76"W x .73"H
WEIGHT		
	<u>2545CDS</u>	<u>2545XCDT</u>
Notebook	6.8 lbs.	7.0 lbs.
AC Adapter	.66lbs	.66lbs
Battery (Standard)	.88 lbs.	.88 lbs.

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BUNDLED SOFTWARE

Windows® 98; Symantec Norton® Antivirus Scanner; Toshiba/AT&T/Yahoo Internet Offer; Ring Zero® Ring Central™; AOL update; Intel Indeo Video; Yamaha Audio Station; Disney Daily Blast; Microsoft Money 99; Microsoft Outlook; Quicken 99 Basic; Toshiba Custom Utilities (HWSetup, Quick Hibernation, Power Saver, Hotkey utility, Toshiba Hibernation utility); User's Guide
CD's Included: Bootable Windows 98 Configuration Builder CD; Toshiba Companion diskette; Microsoft Encarta 99 MPEG version; Microsoft Money; Microsoft Outlook 98; Microsoft Bookshelf 99

<i>Customer Choice Software: Select of a Total of 5 Additional Software Titles</i>		
<u>Office Productivity</u>		
<i>Lotus® SmartSuite Millenium Edition (counts as 5 selections): Lotus 123, Approach, Freelance Graphics, Wordpro, and Organizer Dragon Point & Speak™ (requires the purchase of a \$6.00 microphone)</i>		
<u>Mobile Productivity</u>		
Laplink® 7.5 Rand McNally TripMaker® 1999 USA 99: Streets & Destinations		Print Artist™ 4.5 Snapshot
<u>Education</u>		
The Way Things Work 2.0 Eyewitness Children's Encyclopedia Math Blaster™ Algebra		Encyclopedia of Science 2.0 Higher Score Guaranteed ACT/SAT/PSAT Jump Start Family Activity CD
<u>Entertainment</u>		
You Don't Know Jack™ Movies Sierra Sports™ Ski Racing '99 OddWorld: Abe's Oddysee™ Total Annihilation™		Asteroids Battlezone Jack Nicklaus 5.0

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
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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