

SATELLITE 2590CDS/CDT Product Specifications

MODEL	PART NUMBER	DESCRIPTION	
2590CDT	PAS259U-T2CW8	Intel® Celeron® 400MHz, 12.1" TFT, 64MB, 6.4bb HDD, Modem, CD-ROM Windows 98 w/ dual linked Win95/98 Configuration Builder CD	
PROCESSOR		Intel Celeron® 400Mhz (1.6v)	
Integrated Coprocessor		Yes	
Processor Cache (L1) Capacity		32KB: (16KB code; 16KB data)	
LEVEL 2 (L2) CACHE		Yes: 128KB Integrated into CPU	
Data/Address Bus Width		64bit/32bit	
Local Bus Clock Speed		66 MHz	
SYSTEM ARCHITECTURE		<u>Chipset</u>	<u>Connecting Devices</u>
PCI BUS (v.2.1): (32-bit, 33 MHz)		Intel 440BX	PC Card slots, HDD, CD-ROM, USB
2 x AGP		Intel 440BX	Graphics Controller
ISA BUS: 16-bit, 8MHz		N/A	BIOS, KBC
MEMORY: 64Mbit SDRAM, 3.3V			
Standard		64 MB	
Maximum		192 MB	
Speed		60ns	
Hyper Page mode memory access		Yes	
Data/Address Bus Width		64bit/32bit	
Local Bus Clock Speed		66 MHz	
BIOS		512KB: 4Mbit FLASH EPROM, 5V	
Supported standards		APM (v.1.2); ACPI; PnP 1.0a; VESA (v2.0); DPMS, DCC2B, DMI (v.2.0); PCI BIOS	
SYSTEM MANAGEMENT		DMI 2.0 BIOS w/asset tag capability; Wired for Management (v.1.1a); ACPI; APM (v.1.2); DMI (v.2.0); Toshiba Configuration Builder – customize software image tool; Year 2000 Compliant (NSTL Hardware Tested)	
VIDEO			
Memory		2.5 MB <i>integrated into chipset</i>	
Speed		50ns	
Hyper Page mode support		Yes	
Controller Chip		Trident Cyber 9525DVD	
Data Bus Width		64-bit	
AGP Local Bus (2D/3D) support		Yes: 33/66MHz	
Graphics Accelerator:		Yes with 64-bit BitBLT support	
2D graphics support		BitBLT, DirectDraw, H/W Cursor	
3D Supported Features			
Modeling		Fogging, Lighting	
Shading		Flat shading, Gouraud shading	
Rendering		Bilinear texture mapping , Anti-aliasing, MIP mapping, Z-buffering (16-bit or 32-bit)	
Alpha-blending		Yes	
Direct3D support		Yes	
Digital Video Accelerator:		Yes	
YUV-to-RGB color space conversion		Yes	
Scaling/Interpolation/Zoom		Yes	
Internal Support (As listed)		<u>2590CDT</u>	
	Resolution	Colors Support	
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	Resolution	<u>Colors Support</u>	<u>Vertical Refresh Rate (Non-Interlaced)</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 (As listed)		
		<u>2590CDT</u>
Type		TFT Active Matrix Color (800 x 600)
Size		12.1" Diagonal
Dot Pitch		.279mm x .279mm
Contrast Ratio		100:1 (Min)
ALL-IN-ONE DESIGN (As Listed)		
STORAGE		
		<u>2590CDT</u>
Removable HDD (2.5" Enhanced IDE)		6.4 billion bytes (13msec)
Buffer		512KB Buffer
Removable		Service-removable
Height		9.5mm or 8.5mm
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, .62 lbs.)		24X Maximum Speed
Interface		.ATAPI (Enhanced IDE) with 128KB buffer
Random Access Time		130 ms
Average Sustained Transfer Rate		3,600 KB/sec
Burst Data Transfer Rate		PIO Mode 4 (16.7MB/sec); Multi Word DMA Mode2 (16.6MB/sec)
Supported Disc formats		CD-DA, CD-ROM, CD-R, CD-ROM XA, Photo CD (Multi-session), Video CD, CD Extra (CD Plus), CD-G, CD-RW (read only)
INTERNAL MODEM		
DAA support		Internal 56K ITU w/V.90 support
Data support		US/Canada and Europe
	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		RingZero® RingCentral™ modem software
Supported Functions		Ring Wake-up Resume
SOUND SYSTEM		
		Toshiba Sound System
Chipset		ESS ES1978S (PCI audio accelerator) & ESS 1918S
Features		Multi-stream DirectSound and DirectSound3D acceleration Hardware acceleration for DirectMusic and DirectInput
18-bit stereo audio playback/record		Yes
Maximum sampling rate		48 kHz
FM Synthesis support		64-channel wavetable music synthesis
Full duplex function		Yes
Sound formats supported:		SoundBlaster Pro™, .WAV, MIDI
3D Sound Support		Yes: HRTF 3D positional audio, DVD AC-3 speaker virtualization
Direct3Dsound, DirectSound support		Yes: with Windows 98 Game SDK driver from Microsoft
Speaker system		Stereo Bass-Reflex speaker system
Form factor		Two top-mounted stereo speakers (28mm, 8 Ω) <i>with volume control</i>

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KEYBOARD

84 keys, 3mm Travel	Yes
Keyboard height	9.5mm
Key Pitch	19.05mm
Key support	Windows 95/98, Application support
Easy Access Internet Key	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
Cursor control (8 Keys, Inverted "T")	Yes
Numeric keypad (Integrated Overlay)	Yes
Pointing Device	Accupoint™ Integrated Pointed Device

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 <i>and</i> 16-bit, 5.0V PC card standards
Internal Memory Slot (One only)	Yes

EXPANSION PORTS

Expansion Bus	Yes
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, stereo)	Yes
Headphone (3.5mm mini jack, stereo)	Yes
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes
Noteworthy security lock port	Yes
RJ-11 Modem port	Yes

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 (4000mAH; 3.6Vx3cellsx2)	Yes (one standard): Part# PA2487URG	
Battery Life: (Full Power)	2590CDT: 3.0 hrs	2590CDS: 2.5 hrs.
Recharge Time (Computer Off/On)	3/4-10 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	

DIMENSIONS

	<u>Dimensions</u>	<u>Weight</u>
Notebook (2590CDT)	12.2"W x 10.2"D x 1.6"H	6.7 lbs.
AC Adapter	4.9"L x 2.46"W x .97"H	.66lbs.
Battery (Standard)	6.87"L x 2.76"W x 0.73"H	.88 lbs.

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BUNDLED SOFTWARE

Windows® 98, RingZero® RingCentral™, Symantec Norton® Antivirus™ Scanner, AT&T WorldNet Service, Intel Indeo Video, Toshiba Utilities (HWSetup, Quick Hibernation, Toshiba Hibernation, Power Saver, FN-esse), America Online update, Online Documentation

CD's Included: Bootable Dual linked Win95/98 Configuration Builder CD (Configuration Pro Compatible);
Toshiba Companion Diskette

Customer Choice Software: Select of a Total of 5 Additional Software Titles

<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; By screw only: PC Card lock slot, HDD, internal modem
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	20% to 80% non-condensing	10% to 90% non-condensing
Altitude	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock	10G; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed