

SATELLITE 2100CDS/CDT Product Specifications

MODEL	2100CDS/4.3 billion bytes	2100CDT/4.3 billion bytes
PART NUMBER	PS210U-S2CW8	PS210U-T2CW8
PROCESSOR (All models)		
400MHz AMD K6-2 processor (1.9V)	Yes: with 3D Now Technology	
Integrated Coprocessor	Yes	
Processor Cache	64KB: (32KB code; 32KB data)	
LEVEL 2 (L2) CACHE (All models)		
	Yes: 512KB	
Type of cache memory	Pipelined Burst Synchronous SRAM	
Cacheable Main Memory Area	Up to 256MB	
Data Bus Width	64-bit	
Local Clock Bus Speed	100MHz	
SYSTEM ARCHITECTURE (All models)		
	<u>Connecting Devices</u>	
PCI BUS (v.2.2): (32-bit, 33 MHz)	PC Card Slots, Graphics controller, Sound, USB, Modem, HDD, CD-ROM, FDD	
ISA BUS: 16-bit, 8MHz	BIOS, KBC	
BIOS (All Models)		
	4Mbit Flash EPROM (5V), 512KB	
Supported standards	APM (v.1.2), ACPI (V1.0b), PnP (v.1.0a), VESA (v.2.0), DPMS, DCC2B, SM BIOS (v.2.3), PCI BIOS (V2.1). FDD/HDD/CD-ROM bootable.	
SYSTEM MANAGEMENT (All models)		
	Wired for Management (v.1.1a), ACPI, APM (v.1.2), SM BIOS (V.2.3) w/asset tag, DMI BIOS (V.2.0) w/asset tag, Configuration Builder – customize software image tool, Year 2000 Compliant (NSTL Hardware Tested)	
MEMORY: 64Mbit SDRAM, 3.3V		
	<u>2100CDS</u>	<u>2100CDT</u>
Standard	32MB	64MB
Maximum	160 MB	192MB
Speed	PC100	PC100
Data Bus width	64-bit	64-bit
VIDEO (All Models)		
Memory: 16Mbit SGRAM, 3.3V	2 MB	
Speed	83 MHz	
Controller Chip	S3 ViRGE MX (86C260)	
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	
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>	
	640 x 480	16.7M colors
	800 x 600	16.7M colors
	1024 x 768	64K colors
	1280 x 1024	256 colors
	<u>Colors Support</u>	
		85Hz @ 16M color
		85Hz @ 16M color
		85Hz @ 64K color
		60 Hz @ 256 color

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DISPLAY (As listed)	<u>2100CDS</u>	<u>2100CDT</u>
Type	Color Bright Dual Scan (800 x 600)	TFT Active Matrix (800 x 600)
Size	12.1" Diagonal	12.1" Diagonal
Dot Pitch	0.3075 x 0.3075mm	0.3075 x 0.3075mm
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 (by dial)	Yes (by dial)
ALL-IN-ONE DESIGN (All models)		
HDD		
Removable HDD (2.5" Enhanced IDE)	4.3 billion bytes (13msec) – Service Removable	
Certification	SMART	
Height	8.45mm	
Buffer	512KB	
Burst Data Transfer Rate	Ultra DMA33 Mode2 (33.3MB/sec), Multiword DMA mode 2 (16.6MB/sec), PIO Mode 4 (16.7MB/sec)	
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	
Data Transfer Rate (max)	3,600KB/sec	
Burst Data Transfer Rate	Ultra DMA mode2 (33.3MB/sec) or PIO Mode 4 (16.7MB/sec)	
Supported Disc formats	CD-ROM, CD-R, Photo CD (Multisession), CD Extra (CD Plus), CD-G, CD-RW (read only)	
KEYBOARD (All models)		
84 keys, 3mm Travel	Yes	
Key support	Windows 95/98, Application	
Application Key support	Yes	
Easy Access Internet Key	Fn + F6 key	
CD-ROM functions	Skip to Previous track (Fn+F7); Play & Stop (Fn+F8); Skip to next track (Fn+F9)	
Dedicated function keys	12 dedicated function keys	
Keyboard height	8mm	
Key Pitch	19.05mm	
Cursor control (8 Keys, Inverted "T")	Yes	
Numeric keypad (Integrated Overlay)	Yes	
Pointing Device (All models)	Integrated AccuPoint™ pointing device	
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 equivalent)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One 15-Pin RGB (SVGA video)	Yes	
One (PS/2) 101 Keyboard/Mouse port	Yes: "Y" connector supported	
Universal Serial Bus (USB) port	Yes: Supports 127 devices. Throughput Rate: 12Mbits/sec.	
RJ-11 Modem port	Yes	
Microphone (3.5mm mini jack, monaural)	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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INTERNAL MODEM (All models)		
INTERNAL MODEM (All models)	Integrated V.90/K56flex modem	
DAA support	US/Canada	
Data support		
Protocols supported	ITU-T V.21/V.22/V.22bis/V.23/V.32/V.32bis/V.34/BELL 103/212A/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	
Modem Functions		
Standard software	RingZero® RingCentral™ modem software	
Supported Functions	Ring Wake-up Resume	
POWER (All models)		
Autosensing External AC Adapter: PA2450U		
Input (Voltage/Frequency)	4.9" L x 2.46" W x .97" H --- Weight: .66lbs.	
Output (Voltage/Amps)	100-240V; 50-60Hz	
Power Output (Watts)	15 VDC; 3.0A	
Battery Type: Li-Ion Graphite (2600mAh)	45W	
Battery Life: (Full Power)	Yes (one standard): Part# PA2487UR	
Recharge Time (Computer Off/On)	2.0 hrs	
Power Saving Features	3/4-10 hrs. <i>depending on the computer function performed</i>	
	APM v.1.2 BIOS, CPU Sleep mode, HDD Auto Off, Display Auto Off	
	CPU speed change, Hibernation, Stand By	
SOUND SYSTEM (All models)		
Toshiba Sound System		
Chipset	ESS ES1978S (PCI audio accelerator) & ESS 1918S	
Features	Multi-stream DirectSound and DirectSound3D acceleration	
	Hardware acceleration for DirectMusic and DirectInput	
16-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: w/ HRTF 3D positional audio	
Direct3DSound, DirectSound support	Yes	
DirectMusic, DirectInput support	Yes	
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω) <i>with volume control</i>	
DIMENSIONS (All models)		
Notebook	12.2" W x 10.2" D x 1.7" H	
AC Adapter	4.92" W x 2.48" H x .98" D	
Battery (Standard)	6.87" L x 2.76" W x 0.73" H	
WEIGHT (All models)		
Notebook	6.8 lbs.	
AC Adapter	.66 lbs.	
Battery (Standard)	.66 lbs.	
SECURITY (All models)		
Hardware	Cable Lock slot; memory, main HDD & modem (by screw only)	
Password	Power-on	
Miscellaneous	Screen blank, screen saver, Keyboard lock	

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BUNDLED SOFTWARE (All models)

Windows® 98 Second Edition, Symantec Norton® Antivirus™ 5.0, Ring Zero® Ring Central™, Intuit Quicken Basic 99, AT&T WorldNet Free Trial, Customizable Toshiba/My Yahoo start page, Toshiba Custom Utilities, Toshiba Accessories (Desktop Shortcut to purchase Toshiba Accessories Online), User's Guide

CD's Included: Bootable Windows 98 Configuration Builder CD (CBCD Pro compatible), Lotus Smartsuite CD, Toshiba Companion diskette

<i>Toshiba Take 2 Software: Select a Total of 2 Additional Software Titles. Pay only \$6.95 shipping</i>		
<u>Mobile Productivity</u>		
Laplink® Pro Route Planner Street Wizard 6.0		Print Artist™ 6.0 Snapshot™
<u>Office Productivity</u>		
Corel Print Office™ Power Plugs™ : Transitions™ II Web Studio Express		Lotus SmartSuite® Millennium 1999 Grolier Multimedia Encyclopedia®
<u>Entertainment</u>		
Smart Games™ 2 Yahtzee® Boggle®		All-American Sports: Golf 1.0 Hoyle Classic Card Game

WARRANTY (All models) 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

* Includes HWSetup, Quick Hibernation, Power Saver, Toshiba Hibernation utility, Hotkey utility