

SATELLITE 2060CDS Product Specifications

MODEL	2060CDS/4.3 billion bytes		
PART NUMBER	PAS206U-S2CW8		
PROCESSOR			
366MHz AMD K6-2 processor	Yes: with 3D Now Technology		
Integrated Coprocessor	Yes		
Processor Cache	64KB: (32KB code; 32KB data)		
LEVEL 2 (L2) CACHE	Yes: 256KB		
Type of cache memory	Pipelined Burst Synchronous SRAM		
Access speed	8ns		
Cacheable Main Memory Area	Up to 64MB		
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, USB, 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, APM (v.1.2), DMI (v.2.0), Toshiba Configuration Builder – customize software image tool, Year 2000 Compliant (NSTL Hardware Tested)		
MEMORY: 64Mbit SDRAM, 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	12.1" 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) – Service Removable	
Height	9.5mm or 8.5mm	
Buffer	512KB	
Burst Data Transfer Rate	Ultra DMA33 Mode2 (33.3MB/sec) or 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	
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	
Keyboard height	9.5mm	
Key Pitch	19.05mm	
Key support	Windows 95/98, Application	
Application Key support	Yes	
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	
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 <i>and</i> 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	
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	
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

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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	Fax class 1
Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Telephony Functions	
Standard software	RingZero® RingCentral™ telephony software
Supported Functions	Ring Wake-up Resume
POWER	
Autosensing External AC Adapter: PA2440U	3.9"W x 2.0"H x 1.0"D --- .5 lbs.
Input (Voltage/Frequency)	100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 2A (max)
Power Output (Watts)	30W
Battery Type: Li-Ion (2600mAH; 3.6Vx3cellsx2)	Yes (one standard): Part# PA2487URG
Battery Life: (Full Power)	2.0 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	
Chipset	Toshiba Sound System
Features	ESS ES1978S (PCI audio accelerator) & ESS 1918S 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: 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	
Notebook	12.2"W x 10.2"D x 1.7"H
AC Adapter	3.9"W x 2.0"H x 1.0"D
Battery (Standard)	6.87"L x 2.76"W x 0.73"H
WEIGHT	
Notebook	6.2 lbs.
AC Adapter	.5 lbs.
Battery (Standard)	.88 lbs.

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BUNDLED SOFTWARE (Windows 98 models)

Windows® 98, Symantec Norton® Antivirus™ Scan & Repair, AT&T WorldNet Service, Ring Zero® Ring Central™, Toshiba Custom Utilities (HWSetup, Quick Hibernation, Power Saver, Toshiba Hibernation utility, Hotkey utility), Intel® Indeo Video, AOL Online update, User's Guide

CD's Included: Bootable Windows 98 Configuration Builder CD; 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

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