

SATELLITE 4100XDVD Product Specifications

MODEL	PART NUMBER	DESCRIPTION	
4100XDVD	PAS410U-T2DW8	Intel® Mobile Pentium® II 400MHz, 14.1" TFT, 64MB, 6.4bb HDD , Modem, DVD-ROM , Windows 98 w/ dual linked Win95/98 Configuration Builder CD	
4100XDVD-NT	PAS410U-T2DN4	Intel® Mobile Pentium® II 400MHz, 14.1" TFT, 64MB, 6.4bb HDD , Modem, DVD-ROM , Windows NT Configuration Builder CD (CB Pro Compatible)	
PROCESSOR		Intel Mobile Pentium II® processor, 400Mhz (1.6v)	
Integrated Coprocessor		Yes	
Processor Cache (L1) Capacity		32KB: (16KB code; 16KB data)	
LEVEL 2 (L2) CACHE		Yes: 256KB Integrated into CPU (On-die)	
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 440DX	Graphics Controller, Sound , Modem
ISA BUS: 16-bit, 8.33MHz		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 w/ACPI-OS; PnP 1.0a; VESA (v2.0); DPMS, DCC2B, SM BIOS (v.2.1); PCI BIOS	
SYSTEM MANAGEMENT		SM 2.1 BIOS support with asset tag capability	
		Toshiba Configuration Builder CD supports Microsoft® Windows 98 and Windows 95 Year 2000 Compliance: NSTL Hardware Tested	
VIDEO			
Memory		2.5 MB <i>integrated into chipset</i>	
Speed		50ns	
Hyper Page mode support		Yes	
Controller Chip		Trident Cyber 9525	
Data Bus Width		64-bit	
PCI Local Bus support		Yes: 33MHz, 32-bit	
Graphics Accelerator:		Yes with 64-bit BitBLT support	
2D graphics support		BitBLT, DirectDraw, H/W Cursor, Patterned Fills, Polygon Fill	
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			
	Resolution	<u>Colors Support</u>	
(Full Screen)	1024 x 768	64K colors	
Smaller Image	640 x 480	16.7M colors	
Smaller Image	800 x 600	16.7M colors	
Virtual Display Mode	1280 x 1024	256 colors	
EXTERNAL VIDEO SUPPORT			
	Resolution	<u>Colors Support</u>	<u>Vertical Refresh Rate (Non-Interlaced)</u>
	640 x 480	16.7M colors	85/75/65Hz @ 16.7M colors
	800 x 600	16.7M colors	85Hz @ 16.7M colors
	1024 x 768	64K colors	85 Hz @ 64K colors
	1280 x 1024	256 colors	60 Hz @ 256 colors

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DISPLAY		
Type	TFT Active Matrix Color	
Resolution	1024 x 768	
Size	14.1" Diagonal	
Dot Pitch	.3075mm x .3075mm	
Contrast Ratio	100:1 (Min)	

ALL-IN-ONE DESIGN

STORAGE		
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	

DVD-ROM		
Type	Toshiba SD-C2102	
Height	12.7mm	
Weight	0.62 lbs.	
Operation modes	<u>DVD-ROM</u>	<u>CD-ROM</u>
Rotational Speed	2.4X Max	20X Max
Random Access Time	160ms	110ms
Sustained Data Transfer rate	1352-2,704 KB/sec	1290-3,000 KB/sec
CD-ROM Compatibility	CD-ROM, CD-R, CD-RW (read only)	
DVD-ROM Compatibility	DVD-ROM only (no DVD-RAM supported)	

SOUND SYSTEM		
Chipset	Toshiba Sound System	
Features	ESS ES1978S (PCI audio accelerator)	
	DVD-AC-3 speaker virtualization	
	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	
DirectSound	Yes	
3D Sound support	Yes: (HRTF 3D positional audio, DVD AC-3 speaker virtualization)	
Direct3Dsound	Yes	
Speaker system	Stereo Bass-Reflex speaker system	
Form factor	Two top-mounted stereo speakers (28mm, 8 Ω) <i>with volume control</i>	

INTERNAL MODEM		
	Integrated V.90/K56flex modem	
DAA support	US/Canada and Europe	
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
Modem Functions		
Standard software	RingZero® RingCentral™ telephony software	
Supported Functions	Ring Wake-up Resume	

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KEYBOARD

84 keys, 3mm Travel	Yes
Keyboard Height	8mm
Key Pitch	19.05mm
Key support	Windows 95/98, Application support
Dedicated function keys	12 dedicated function keys
Cursor control (8 Keys, Inverted "T")	Yes
Numeric keypad (Integrated Overlay)	Yes

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: 12Mbps/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
One Noteworthy security lock port	Yes
One RJ-11 jack	Yes

POWER

Autosensing External AC Adapter	Part#: PA2450U
Dimensions/Weight	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; 10.8V) -- one standard: Part# PA2487URG
Battery Life: (Full Power)	2.5+ hrs.
Recharge Time (Computer Off/On)	2.8 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	12.2"W x 10.2"D x 1.6"H	7.0 lbs.
AC Adapter	6.9"L x 2.8"W x 0.7"H	.85lbs.
Battery (Standard)	6.87"L x 2.76"W x 0.73"H	.88 lbs.

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BUNDLED SOFTWARE (Windows 98 Models)
 Windows® 98, Toshiba Utilities (HWSetup, Quick Hibernation, Power Saver, Hotkey Utility, Toshiba Hibernation Utility), Fn-esse™ Mediamatics DVD Express, Intel Indeo Video, AT&T WorldNet Service, RingZero® RingCentral™, America Online update, Symantec Norton® Antivirus™ Scanner, User's Guide
CD's Included: Bootable Dual linked Win95/98 Configuration Builder CD (Configuration Pro Compatible) & Companion Diskette

For Windows 98 Models Only		
Customer Choice Software: Select of a Total of 5 Additional Software Titles. Pay only \$6.95 shipping		
<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

BUNDLED SOFTWARE (Windows NT Models)
 Windows NT 4.0, Windows NT Service Pack 4.0, Toshiba Windows NT4.0 Utilities, User's Guide, Microsoft Internet Explorer
CD's Included: Windows NT Configuration Builder CD (CBCD) Pro Compatible & Toshiba Companion Diskette

SECURITY	Hardware	Cable Lock slot & PC Card lock slot. By screw only: 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 95% non-condensing
Altitude	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock	10G (11ms)	60G (66ms)
Vibration	0.5G	1G