

SATELLITE 310 Series Product Specifications

MODEL	310CDS: 2.1 Billion Bytes	310CDT: 2.1 Billion Bytes
PART NUMBER	PA1262U-S2C	PA1262U-T2C
PROCESSOR (All models)		
Intel Pentium @200Mhz (1.8v/2.5v)	Yes: with MMX support	
External data bus width	64 bit	
External data/address bus speed	66 MHz	
Integrated Coprocessor	Yes	
Processor Cache	32KB: (16KB code; 16KB data)	
LEVEL 2 (L2) CACHE (All models)		
	Yes: 256KB	
Data Bus Width	64 bit	
Data Bus Speed	66 MHz	
DATA RAM:	Yes	
1 Mbit Pipelined Burst Synchronous SRAM	(32K x 32bit, 3.3V) x 2	
Access Time	8 ns	
SYSTEM ARCHITECTURE (All models)		
PCI BUS (v.2.1): (32-bit, 33 MHz)	Connecting Devices: PC Card Slots, HDD, Graphics Controller, CD-ROM, FDD	
ISA BUS: 16-bit, 8.25 MHz	Connecting Devices: BIOS, Sound chip, KBC	
MEMORY: 16Mbit EDO DRAM, 3.3V		
	(All Models)	
Standard	32MB	
Maximum	160MB	
Speed	60ns	
Hyper Page mode memory access	Yes	
Data width	64 bit	
Local Bus Clock Speed	66MHz	
BIOS: (4Mbit Flash EPROM 5V)		
PnP 1.0a SUPPORT	Yes: 512K (All models) Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (through Win95)	
DISPLAY		
Type (800 x 600 resolution)	Color Bright Dual-Scan Passive Matrix	TFT Active Matrix Color
Size	12.1" Diagonal	12.1" Diagonal
Dot Pitch	.3075mm x .3075mm	.3075mm x .3075mm
Contrast Ratio	40:1	100:1
VIDEO (All models)		
Memory: 4Mbit EDO DRAM, 3.3V	2 MB	
Speed	50ns	
Hyper Page mode support	Yes	
Controller Chip	Chips & Technologies 65555	
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz	
Graphics Accelerator:	Yes with 64-bit BitBLT support	
Data Bus Width	64-bit	
DirectDraw, Direct3D, H/W Cursor	Yes	
Video Accelerator:	Yes	
YUV-to-RGB color space conversion	Yes	
Scaling & Interpolation	Yes	
DirectMPEG	Yes	
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft	
Color Palette	16.7M colors	
Internal Support	800 x 600 x 16M colors	
Smaller Image	640 x 480 x 16M colors	
Virtual Display Mode	1024 x 768 x 64K colors	
Virtual Display Mode	1280 x 1024 x 256 colors	
External Support	<u>Colors/Palette</u>	<u>Vertical Refresh Rate (Max)</u>
	640 x 480	85Hz Non-interlaced @ 64K colors
	800 x 600	85Hz Non-interlaced @ 64K colors
	1024 x 768	60Hz Non-interlaced @ 64K colors
	1280 x 1024	60Hz Non-interlaced @ 64K colors

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DRIVE BAY DEVICES (All models)		
HDD (2.5" Enhanced IDE; 12.7mm high)		
Removable ¹ HDD	2.1 billion bytes (12-13 msec)	
Local Bus Support	Yes	
FDD (3.5" 1.44MB; 12.7mm high)		
Simultaneous FDD & CD-ROM Support	Yes: two independent units	
CD-ROM: (5.25" ; 12.7mm high)		
Weight	.62 lbs.	
Interface	.ATAPI (Enhanced IDE)	
Buffer size	128KB	
Random Access Time	135 ms	
Average Sustained Transfer Rate	1,500 KB/sec	
Supported Disc formats	CD-DA, CD-ROM, CD-ROM XA, CD-Bridge (Photo-CD, Video-CD), CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Plus)	
KEYBOARD (All models)		
Windows 95 support	Yes	
84 keys, 3mm Travel	Yes	
12 dedicated function keys	Yes	
Hot Key function	Yes	
Cursor control (8 Keys, Inverted "T")	Yes	
Numeric keypad (Integrated Overlay)	Yes	
Integrated Pointing Device (All models)		
	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 (All models)		
LOCATION		
One 9-Pin Serial (16550 UART compliant)	Yes	
One 25-Pin Parallel (8 bit ECP)	Yes	
One 15-Pin RGB (SVGA video)	Yes	
Fast Infrared port (IrDA 1.1:4Mbps compatible)	Yes: Rear only	
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	
SOUND SYSTEM (All Models)		
Chipset:	Yamaha OPL3-SA3	
16-bit stereo audio playback/record	Yes	
Maximum sampling rate	48 kHz	
FM Synthesis support	Yes (Soft Wave Table included)	
Full duplex function	Yes	
Sound formats supported:	SoundBlaster Pro™ V3.01, Windows Sound System V2.0	
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)	

1. One Screw Service removable.

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PC Card MODEM (Bundled) --- (All models)	Xircom Credit Card Modem 56	
Data support		
Protocols supported	Bell-212A, V.23, V.22, V.22bis, V.32, V.32bis, V.34, K56flex	
Error correction	V.42/MNP 2-4	
Data compression	MNP 5, CCITT V.42 bis	
Fax support	Group 3, EIA/TIA, Fax class 1	
Protocols supported	V.17, V.27 ter, V.29	
Command Set	Hayes, Microcom compatible AT commands	
POWER (All models)		
Autosensing External AC Adapter	3.93"L x 1.97"W x .98" --- .46 lbs.	
Input (Voltage/Frequency)	100-240V; 50-60Hz	
Output (Voltage/Amps)	15 VDC; 2A (max)	
Power Output (Watts)	30W	
Battery Type: Li-Ion (10.8V, 3600mAH)	Yes (one standard): Part# PA2487URN	
Battery Life: (Full Power/Low Power)	3+ hrs.	
Recharge Time (Computer Off/On)	3 - 5 hrs. <i>depending on the computer function performed</i>	
MaxTime® Power Management	Yes	
DIMENSIONS (All models)	11.96"W x 9.4"D x 2.18"H	
WEIGHT (includes .86 lbs. battery)	6.7 lbs.	
BUNDLED SOFTWARE	Windows®95, Yamaha Audio Rack, Mediamatics ARCADE™ Pak, RingZero RingCentral Dialer application , Extended Systems QuickBeam (Infrared software)♣, MaxTime®, Fn-Esse, On-line documentation., Internet Explorer 4.0, Prodigy Internet, Symantec Noton A ntiVirus (Scan and Repair), Toshiba Web Utilities	
CD's Included:	Recovery CD, Backup CD	
SECURITY (All models)		
Hardware	Lock slot for computer & PC Card	
Software	Screen blank, Keyboard lock	
Password	Power-on, & Supervisor password	
WARRANTY (All models)	1 YR Parts / 1 YR. Labor	
ENVIRONMENTAL SPECIFICATIONS	(All models)	
	<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 90% non-condensing
Altitude: Operating	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock: Operating	10G; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration: Operating	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed

♣ Downloadable from the Toshiba or Extended Systems websites.