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maintenance & service guide

Presario 1200XL Series Model XL300, XL300A, and XL300B

Specifications

Physical and Environmental

Computer Specifications		
Dimensions	U.S.	Metric
Height	1.71 in.	43.43 cm
Width	10.08 in.	30.90 cm
Depth	12.20 in.	256.03 cm
Weight		
with 12.1" HPA Display	7.23 lbs	3.28 kg (CD-ROM/Ni-MH)
with 12.1" TFT Display	7.32 lbs	3.32 kg (DVD/Ni-MH)
with 13.0" HPA Display	7.36 lbs	3.34 kg (CD-ROM/Ni-MH)
with 13.0" HPA Display	6.97 lbs	3.34 kg (CD-ROM/Li-ion)
with 13.3" TFT Display		3.26 kg (DVD/Li-ion)
Stand-Alone (Battery Pack) Power Requirements	Li-ion 3.2 AHr	
Nominal Operating	W @ 14.8 V	
Maximum Average	W @ 14.8 V	
Peak Operating	W @ 14.8 V	
AC Power Requirements		
Operating Voltage	100 to 240 V	
Operating Current	1.3A/0.8A RMS 1.5A Max. (60 W)	
Operating Frequency	47 to 63 Hz	
Maximum Transient	Meets IEC1000-4-4 and IEC1000-4-5 1 kV for 50 ns	
Temperature		
Operating	50° to 95°F	10° to 35°C
Non-operating	-4° to 140°F	-20° to 60°C
Relative Humidity (noncondensing)		
Operating	10 to 90%	
Non-operating (tw = 38.7°C max)	5 to 95%	

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Computer Specifications		
Dimensions	U.S.	Metric
Altitude		
Operating	0 to 10,000 ft	0 to 3.15 km
Non-Operating	0 to 30,000 ft	0 to 9.14 km
Shock		
Operating	10 G, 11 ms, half sine	
Non-operating	240 G, 2 ms, half sine	
Vibration		
Operating	0.5 G	
Non-operating	1.5 G	

System Interrupts

IRQ	Device(s)
0	System Timer
1	Standard 101/102-Key or Microsoft Natural Keyboard
2	Programmable Interrupt Controller
6	Standard Floppy Disk Controller
7	Printer Port
8	System CMOS/Real Time Clock
10	SCI IRQ used by ACPI Bus
11	ACPI IRQ Holder for PCI IRQ Steering
11	VIA Tech 3038 PCI to USB Universal Host Controller
11	Compaq PCI Modem Enumerator
11	Texas Instruments PCI-1410 CardBus Controller
11	Trident CyberBlade i1 AGP (51)
11	VIA AC'97 Audio Controller
12	Synaptics PS/2 TouchPad
13	Numeric Data Processor
14	VIA Bus Master PCI IDE Controller

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IRQ	Device(s)
14	Primary IDE Controller (Dual FIFO)
15	VIA Bus Master PCI IDE Controller
15	Secondary IDE Controller (Dual FIFO)

System DMA

DMA	Device(s)
2	Standard Floppy Disk Controller
4	Direct Memory Access Controller

System I/O Address

I/O Address	System Function (Shipping Configuration)
0000h-000Fh	Direct Memory Access Controller
0020h-0021h	Programmable Interrupt Controller
0040h-0043h	System Timer
0060h-0060h	Standard 101/102-Key or Microsoft Natural Keyboard
0061h-0061h	System Speaker
0062h-0062h	ACPI Embedded Controller
0064h-0064h	Standard 101/102-Key or Microsoft Natural Keyboard
0066h-0066h	ACPI Embedded Controller
0070h-0075h	System CMOS/Real Time Clock
0080h-0080h	Motherboard Resources
0081h-008Fh	Direct Memory Access Controller
0092h-0092h	Motherboard Resources
00A0h-00A1h	Programmable Interrupt Controller
00A8h-00A9h	Motherboard Resources
00C0h-00DFh	Direct Memory Access Controller
00F0h-00FFh	Numeric Data Processor
0170h-0177h	Secondary IDE Controller (Dual FIFO)

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I/O Address	System Function (Shipping Configuration)
0170h-0177h	VIA Bus Master PCI IDE Controller
01F0h-01F7h	Primary IDE Controller (Dual FIFO)
01F0h-01F7h	VIA Bus Master PCI IDE Controller
0220h-022Fh	Motherboard Resources
0376h-0376h	Secondary IDE Controller (Dual FIFO)
0376h-0376h	VIA Bus Master PCI IDE Controller
0378h-037Fh	Printer Port (LPT1)
0388h-038Bh	Motherboard Resources
03B0h-03BBh	Trident CyberBlade i1 AGP (77)
03C0h-03DFh	Trident CyberBlade i1 AGP (77)
03F0h-03F5h	Standard Floppy Disk Controller
03F6h-03F6h	Primary IDE Controller (Dual FIFO)
03F6h-03F6h	VIA Bus Master PCI IDE Controller
03F7h-03F7h	Standard Floppy Disk Controller
04D0h-04D1h	Motherboard Resources
0CF8h-0CFFh	PCI Bus
1000h-10FFh	VIA AC'97 Audio Controller (WDM)
1400h-141Fh	VIA Tech 3038 PCI to USB Universal Host Controller
1420h-1427h	Primary IDE Controller (Dual FIFO)
1420h-142Fh	VIA Bus Master PCI IDE Controller
1428h-142Fh	Secondary IDE Controller (Dual FIFO)
1430h-1433h	VIA AC'97 Audio Controller (WDM)
1434h-1437h	VIA AC'97 Audio Controller (WDM)
1438h-143Fh	Compaq PCI Modem Enumerator
6800h-687Fh	Motherboard Resources
8000h-808Fh	Motherboard Resources
9050h-9051h	Motherboard Resources

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System Memory Catalog

Memory Address	Device(s)
00000000h-0009FFFFh	System Board Extension for ACPI BIOS
000A0000h-000AFFFFh	Trident CyberBlade i1 AGP (77)
000B0000h-000BFFFFh	Trident CyberBlade i1 AGP (77)
000C0000h-000CBFFFh	Trident CyberBlade i1 AGP (77)
000DC000h-000DFFFFh	System Board Extension for ACPI BIOS
000E0000h-000FFFFFFh	System Board Extension for ACPI BIOS
03800000h-03800FFFh	Texas Instruments PCI-1410 CardBus Controller
F4000000h-F400FFFFh	Compaq PCI Modem Enumerator
F4100000h-F411FFFFh	Trident CyberBlade i1 AGP (77)
F4100000h-F57FFFFFFh	VIA Tech 8601 CPU to AGP Controller
F4120000h-F412FFFFh	Trident CyberBlade i1 AGP (77)
F4800000h-F4FFFFFFh	Trident CyberBlade i1 AGP (77)
F5000000h-F57FFFFFFh	Trident CyberBlade i1 AGP (77)
F8000000h-FBFFFFFFh	VIA Tech VT8601 CPU to PCI Bridge
FFFE0000h-FFFFFFFh	System Board Extension for ACPI BIOS

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Display Information

12.1 in. HPA Display Panel		
	U.S.	Metric
Dimensions		
Height	7.97 in.	20.25 cm
Width	10.82 in.	27.5 cm
Display Dimensions		
Height	9.73 in.	24.715 cm
Width	12.36 in.	31.4 cm
Weight	2.3 lbs	1.045 kg
Contrast Ratio	40:1	
Brightness	100 nits	
Total Power Consumption	1.2 to 1.5 W typ (Assuming backlight current of 5.0 mA, or 100 nits luminance)	
Response Time	150 ms	
Refresh Rate	150 Hz	

12.1 in. TFT Display Panel		
	U.S.	Metric
Dimensions		
Height	7.83 in.	19.9 cm
Width	10.82 in.	27.5 cm
Display Dimensions		
Height	9.73 in.	24.715 cm
Width	12.36 in.	31.4 cm
Weight	2.425 lbs	1.1 kg
Contrast Ratio	100:1	
Brightness	100 nits	
Total Power Consumption	1.2 to 1.5 W typ (Assuming backlight current of 5.0 mA, or 100 nits luminance)	
Response Time	50 ms	
Refresh Rate	60 Hz	

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Display Information (continued)

13.0 in. HPA Display Panel		
	U.S.	Metric
Dimensions		
Height	8.58 in.	21.8 cm
Width	11.61 in.	29.5 cm
Display Dimensions		
Height	9.73 in.	24.715 cm
Width	12.36 in.	31.4 cm
Weight	2.425 lbs	1.1 kg
Contrast Ratio	50:1	
Brightness	100 nits	
Total Power Consumption	1.3 to 2.1 W typ (Assuming backlight current of 5.0 mA, or 100 nits luminance)	
Response Time	150 ms	
Refresh Rate	150 Hz	

13.3 in. TFT Display Panel		
	U.S.	Metric
Dimensions		
Height	7.89 in.	21.5 cm
Width	10.82 in.	28.4 cm
Display Dimensions		
Height	9.73 in.	24.715 cm
Width	12.36 in.	31.4 cm
Weight	2.3 lbs	1.045 kg
Contrast Ratio	150:1	
Brightness	100 nits	
Total Power Consumption	1.2 to 1.5 W typ (Assuming backlight current of 5.0 mA, or 100 nits luminance)	
Response Time	50 ms	
Refresh Rate	150 Hz	

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Memory Expansion

Memory Expansion		
System Memory	Expansion Board Memory	Total Memory
32 MB	none	32 MB
32 MB	32 MB	64 MB
32 MB	64 MB	96 MB
32 MB	128 MB	160 MB
32 MB	256 MB	288 MB
64 MB	none	64 MB
64 MB	32 MB	96 MB
64 MB	64 MB	128 MB
64 MB	128 MB	193 MB
64 MB	256 MB	320 MB

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Diskette Drive

Diskette Drive	
Capacity per Diskette (High/Low)	1.44 MB/720KB
Diskette Size	3.5 in.
Number of LED Indicators (Read/Write)	0
Number of Drives Supported	1
Drive Rotation (rpm)	300
Transfer Rate (KBps)	500
Bytes per Sector	512
Sectors per Track (High/Low)	18/9
Tracks per Side (High/Low)	80
Access Times	
Track-to-Track (ms)	3
Average (ms)	94
Setting Time (ms)	15
Latency Average (ms)	100
Cylinders (High/Low)	80
Number of Read/Write Heads	2

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Hard Drive

Hard Drives		
Drive Type	6.0GB	12.0GB
Capacity Per Drive	6.0 GB	12.0 GB
Logical Configuration		
Cylinders	8647	11968
Heads	4	6
Sectors per Track	190/330	190/330
Bytes per Sector	512	512
Seek Times		
Typical (including settling in ms)	4	4
Single Track	14	14
Full Stroke	24	24
Transfer Rate at Interface	33.3 MB/s	33.3 MB/s

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CD or DVD Drive

CD or DVD Drive		
	8X DVD	24X CD-ROM
Dimensions	128 x 129 x 12.7 mm	128 x 129 x 12.7 mm
Weight	0.29 kg	0.19 kg
Rotational Speed - Approx.	2300 rpm	4225 rpm
Typical Transfer Rate Sustained Data-Transfer Rate	5400 KB/s	3600 KB/s
Access Time Average Random Access Time	140 ms	120 ms
Spin Up Time	3.8 s	2.7 s
Data Buffer Capacity	128 KB	128 KB

Battery Pack

Battery Pack	
Type	Lithium Ion (Li-ion)
Dimensions	
Height	0.8 in. (20.3 mm)
Length	5.7 in. (145 mm)
Width	3.1 in. (78.7 mm)
Weight	0.90 lbs (408.2 g)
Operating Lifetime	2 hr 30 min
Energy	
Nominal Open Circuit Voltage	14.4 V
Capacity	3000 mAH
Power	43.2 WH
Temperature Requirements	
Operating	32°F (0 to 50°C)
Non-Operating	-20°C to 60°C
Charging	5°C to 45°C