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# maintenance & service guide

## Presario 1200 Series

Model XL2, XL201, XL202, XL203, XL204, XL205, XL212, XL220, XL222, XL223,  
 XL3, XL301, XL302, XL303, XL304, XL305, XL307, XL310, XL311,  
 XL312, XL314, XL320, XL323, XL325, XL326, XL327, XL330

## Specifications

### Physical and Environmental

Computer Specifications		
Dimensions	U.S.	Metric
Height	1.75 in	4.44 cm
Width	9.73 in	24.715 cm
Depth	12.36 in	31.4 cm
<b>Weight</b>		
with 12.1" HPA Display	7.23 lb	3.28 kg
with 12.1" TFT Display	7.32 lb	3.32 kg
with 13.0" HPA Display	7.36 lb	3.34 kg
with 13.3" TFT Display		3.26 kg
<b>Stand-Alone (Battery Pack) Power Requirements</b>	Li-ion Enhanced & Li-ion 4.0 Ahr	
Nominal Operating	W @ 14.8 V	
Maximum Average	W @ 14.8 V	
Peak Operating	W @ 14.8 V	
<b>AC Power Requirements</b>		
Operating Voltage	100-240 V	
Operating Current	1.3A/0.8A RMS 1.5A Max. (60W)	
Operating Frequency	47-63 Hz	
Maximum Transient	Meets IEC1000-4-4 and IEC1000-4-5 1kV for 50 ns	
<b>Temperature</b>		
Operating	50° to 95°F	10° to 35°C
Nonoperating	-4° to 140°F	-20° to 60°C
<b>Relative Humidity (noncondensing)</b>		
Operating	10 to 90%	
Nonoperating (tw = 38.7°C max)	5 to 95%	

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



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### 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
9	VIA PCI Audio Controller
9	Texas Instruments PCI-1410 CardBus Controller
9	Trident CyberBlade i1 AGP (51)
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	ACPI IRQ Holder for PCI IRQ Steering
11	Compaq PCI Modem Enumerator
12	Synaptics PS/2 TouchPad
13	Numeric Data Processor
14	VIA Bus Master PCI IDE Controller
14	Primary IDE Controller (Dual FIFO)
15	VIA Bus Master PCI IDE Controller
15	Secondary IDE Controller (Dual FIFO)

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### 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
0081h-008Fh	Direct Memory Access Controller
00A0h-00A1h	Programmable Interrupt Controller
00C0h-00DFh	Direct Memory Access Controller
00F0h-00FFh	Numeric Data Processor
0170h-0177h	VIA Bus Master PCI IDE Controller
0170h-0177h	Secondary IDE Controller (Dual FIFO)
01F0h-01F7h	VIA Bus Master PCI IDE Controller
01F0h-01F7h	Primary IDE Controller (Dual FIFO)
0200h-0207h	Gameport Joystick
02F8h-02FFh	Compaq 56K V.90 HSF Mini PCI Modem
0376h-0376h	Secondary IDE Controller (Dual FIFO)
0376h-0376h	VIA Bus Master PCI IDE Controller
0378h-037Fh	Printer Port (LPT1)
03B0h-03BBh	Trident CyberBlade i1 AGP (51)



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I/O Address	System Function (Shipping Configuration)
03C0h-03DFh	Trident CyberBlade i1 AGP (51)
03E8h-03EFh	Symphony Port (COM3)
03F0h-03F5h	Standard Floppy Disk Controller
03F6h-03F6h	VIA Bus Master PCI IDE Controller
03F6h-03F6h	Primary IDE Controller (Dual FIFO)
03F7h-03F7h	Standard Floppy Disk Controller
0CF8h-0CFFh	PCI Bus
1000h-10FFh	VIA PCI 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 PCI Audio Controller (WDM)
1434h-1437h	VIA PCI Audio Controller (WDM)
1438h-143Fh	Compaq PCI Modem Enumerator



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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 (51)
000B0000h-000BFFFFh	Trident CyberBlade i1 AGP (51)
000C0000h-000CBFFFh	Trident CyberBlade i1 AGP (51)
000DC000h-000DFFFFh	System Board Extension for ACPI BIOS
000E0000h-000EFFFFh	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 (51)
F4100000h-F57FFFFFh	PCI Standard PCI-to-PCI Bridge
F4120000h-F412FFFFh	Trident CyberBlade i1 AGP (51)
F4800000h-F4FFFFFFh	Trident CyberBlade i1 AGP (51)
F5000000h-F57FFFFFh	Trident CyberBlade i1 AGP (51)
F8000000h-FBFFFFFFh	PCI Standard Host CPU Bridge
FFFE0000h-FFFFFFFh	System Board Extension for ACPI BIOS

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### Display Information

#### 12.1-in HPA & 12.1-in TFT

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

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





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### 13.0-in HPA & 13.3-in TFT

#### 13.0-in HPA Display Panel

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

#### 13.3-in TFT Display Panel

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



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### Memory Expansion

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



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### Diskette Drive

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



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### Hard Drive

Hard Drives		
Drive Type	6.0GB	12.0GB
<b>Capacity Per Drive</b>	6.0GB	12.0GB
<b>Logical Configuration</b>		
Cylinders	8647	11968
Heads	4	6
Sectors per Track	190/330	190/330
Bytes per Sector	512	512
<b>Seek Times</b>		
Typical (including settling in ms)	4	4
Single Track	14	14
Full Stroke	24	24
<b>Transfer Rate at Interface</b>	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
<b>Dimensions</b>	128 x 129 x 12.7 mm	128 x 129 x 12.7 mm
<b>Weight</b>	0.29 kg	0.19 kg
<b>Rotational Speed - Approx.</b>	2300 rpm	4225 rpm
<b>Typical Transfer Rate</b> Sustained Data- Transfer Rate	5400 KB/s	3600 KB/s
<b>Access Time</b> Average Random Access Time	140 ms	120 ms
<b>Spin Up Time</b>	3.8 s	2.7 s
<b>Data Buffer Capacity</b>	128 KB	128 KB

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### Battery Pack

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