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maintenance & service guide

Presario 1700 Series

Models: XL260, XL261, XL262, XL264, XL265, XL266, XL274, XL275, XL360, XL361, XL362, XL363, XL364, XL365, XL366, XL367, XL368, XL369, XL370, XL371, XL372, XL373, XL374, XL375, XL376, XL377, and XL378

Specifications

Physical and Environmental

Computer Specifications		
General Dimensions	U.S.	Metric
(Models with 12.1-in. TFT display)		
Height (with the Notebooks closed)	1.3 in.	33.1 mm
Depth	10.3 in.	261.6 mm
Width	12.0 in.	304.8 mm
(Models with 13.3-in. TFT display)		
Height (with the Notebooks closed)	1.3 in.	33.1 mm
Depth	10.3 in.	261.6 mm
Width	12.0 in.	304.8 mm
(Models with 14.1-in. TFT display)		
Height (with the Notebooks closed)	1.3 in.	33.1 mm
Depth	10.3 in.	261.6 mm
Width	12.0 in.	304.8 mm
Weight		
12.1 TFT (w/weight saver installed in the Future Bay)	5.1 lb	2.2 kg
13.3 TFT (w/weight saver installed in the Future Bay)	5.1 lb	2.2 kg
14.1 TFT (w/weight saver installed in the Future Bay)	5.1 lb	2.2 kg
Stand-Alone (Battery Pack) Power Requirements		
	LiON	
Nominal Operating	17 W @ 14.4 V	
Maximum Average	30 W @ 14.4 V	
Peak Operating	31 W @ 14.4 V	
AC Power Requirements		
Operating Voltage	100-240 V	
Operating Current	0.8/0.4 A RMS	
Operating Frequency	47-63 Hz	
Maximum Transient	Meets IEC 801-4 and IEC801-5 1kV for 50 ns	

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Computer Specifications		
General Dimensions	U.S.	Metric
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%	35°C to 90%
Non-operating (tw = 38.7°C max)	5 to 95%	60°C to 95%
Altitude		
Operating	0 to 10,000 ft 0 to 30,000 ft	0 to 3.15 km 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		
Note: Applicable product safety standards specify thermal limits for plastic surfaces. Compaq Presario 1700 Series Portable Notebooks operate well within this range of temperatures.		

System Interrupts

IRQ	Device(s)
0	System Timer
1	Standard 101/102-Key or Microsoft Natural Keyboard
2	Programmable Interrupt Controller
3	Conexant Modem
4	Communications Port (COM1)
5	ESS 1988 Allegro Audio Controller
6	Standard Floppy Disk Controller
7	Printer Port (LPT1)
8	System CMOS/Real Time Clock
9	Intel 82371AB/EB PCI to USB Universal Host Controller

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IRQ	Device(s)
11	Texas Instruments PCI-1410 CardBus Controller ATI M1 Graphics Controller
12	PS/2 Compatible Mouse Port
13	Numeric Data Processor
14	Intel 82371AB/EB PCI Bus Master IDE Controller
15	Intel 82371AB/EB PCI Bus Master IDE Controller

System DMA

DMA	Device(s)
0	ESS 1988 Audio Controller
1	ESS 1988 Audio Controller
2	Floppy Disk Controller
3	Parallel Port (ECP Mode)
5	Free
6	Free
7	Free

System I/O Address

I/O Address	System Function (Shipping Configuration)
0000 - 000F	Direct Memory Access Controller
0020 - 0021	Programmable Interrupt Controller
0040 - 0043	System Timer
0060 - 0060	Standard 101/102-Key or Microsoft Natural Keyboard
0061 - 0061	System Speaker
0064 - 0064	Standard 101/102-Key or Microsoft Natural Keyboard
0070 - 0071	System CMOS/Real Time Clock
0081 - 008F	Direct Memory Access Controller
00A0 - 00A1	Programmable Interrupt Controller
00C0 - 00DF	Direct Memory Access Controller
00E0 - 00E1	Motherboard Resources

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I/O Address	System Function (Shipping Configuration)
00F0 - 00FF	Numeric Data Processor
0170 - 0177	Intel 82371AB/EB PCI Bus Master IDE Controller
01F0 - 01F7	Intel 82371AB/EB PCI Bus Master IDE Controller
0201 - 0201	Gameport Joystick
0274 - 0277	IO Read Data Port for ISA Plug and Play Enumerator
0376 - 0376	Intel 82371AB/EB PCI Bus Master IDE Controller
0378 - 037F	Printer Port (LPT1)
03B0 - 03BB	ATI M1 Graphics Controller
03C0 - 03DF	ATI M1 Graphics Controller
03F0 - 03F5	Standard Floppy Disk Controller
03F6 - 03F6	Intel 82371AB/EB PCI Bus Master IDE Controller
03F7 - 03F7	Standard Floppy Disk Controller
03F8 - 03FF	Communications Port (COM1)
03D0 - 04D1	Motherboard Resources
0CF8 - 0CFF	PCI Bus
1000 - 103F	Motherboard Resources
1040 - 104F	Motherboard Resources
1050 - 105F	Intel 82371AB/EB PCI Bus Master IDE Controller
1060 - 107F	Intel 82371AB/EB PCI to USB Universal Host Controller
1080 - 10FF	PCI Fast Ethernet DEC 21143 Based Adapter
1400 - 14FF	PCI Communication Device
1800 - 1807	PCI Communication Device

System Memory Catalog

Memory Address	Device(s)
00000000 - 0009FFFF	System Board Extension for PnP BIOS
000A0000 - 000AFFFF	ATI M1 Graphics Controller
000B0000 - 000BFFFF	ATI M1 Graphics Controller

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Memory Address	Device(s)
000C0000 - 000CBFFF	ATI M1 Graphics Controller
000E4000 - 000FFFFF	System Board Extension for PnP BIOS
00100000 - 03FFFFFF	System Board Extension for PnP BIOS
04000000 - 04000FFF	Texas Instruments PCI-1225 CardBus Controller
04001000 - 04001FFF	Texas Instruments PCI-1225 CardBus Controller
F4000000 - F40000FF	PCI Communication Device
F4000400 - F40007FF	PCI Fast Ethernet DEC 21143 Based Adapter
F4100000 - F41FFFFF	ATI M1 Graphics Controller
F4100000 - F47FFFFFFF	Intel 82443BX Pentium(R) II Processor to AGP Controller
F4200000 - F42FFFFFFF	PCI Multimedia Audio Device
F4400000 - F47FFFFFFF	ATI M1 Graphics Controller
F4C00000 - F4FFFFFFF	PCI Multimedia Audio Device
F4C00000 - F5FFFFFFF	Intel 82443BX Pentium(R) II Processor to AGP Controller
F5000000 - F5FFFFFFF	ATI M1 Graphics Controller
F8000000 - FBFFFFFFF	Intel 82443BX Pentium(r) II Processor to PCI Bridge (with GART support)
FFF80000 - FFFFFFF	Motherboard Resources

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Display Information

Specification	12.1-in. TFT	13.3-in. TFT	14.1-in. TFT
Unit Height	275 x 199 mm.	284 x 214.5 mm.	289.5 x 227.5 mm.
Unit Width			
Display Height	246 x 184.5 mm.	270.34 x 202.75 mm.	285.7 x 214.3 mm.
Display Width			
Weight	440 g	510 g or less	590 g or less
Contrast Ratio	250	200	200
Brightness	100 nits	130 nits	130 nits
Response Time	50 ms	50 ms	50 ms
Refresh Rate	60 Hz	60 Hz	60 Hz
Power	1.8 W	1.2 W	1.9 W

Battery Pack

Specification	3.2 AHr Li-ion
Type	Lithium Ion Enhanced
Height	0.8 in. (20.3 mm)
Length	5.7 in. (145 mm)
Width	3.1 in. (78.7 mm)
Weight	0.90 lb (408.2 g)
Operating Lifetime	>3 hr*
Nominal Open Circuit Voltage	14.4 V
Capacity	3.2 Ahr
Power	43.2 WH
Temperature Requirements	0–50 C
Operating	-20–60 C
Non-operating	5–45 C
Charging	

**The battery operating lifetime depends on your power management settings, system components, options, and applications.*

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Diskette Drive

Diskette Drive	
Specification	3.5-in. Drive
Capacity per Diskette (High/Low)	Low 720 KB High 1.44 MB
Diskette Size	3.5 in.
Number of LED Indicators (Read/Write)	1
Number of Drives Supported	1
Drive Rotation (rpm)	360
Transfer Rate (Kbps/Sec)	Low 31 High 62
Bytes per Sector	512
Sectors per Track (High/Low)	Low 9 High 18
Access Times Track-to-Track (ms)	3 ms
Head Setting (ms)	15 ms
Number of Read/Write Heads	2

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Hard Drive

Hard Drives			
Specification	6.0 GB	12.0 GB	10.0 GB
Drive Type	Ultra DMA	Ultra DMA	Ultra DMA
Height	9.5 mm	9.5 mm	9.5 mm
Width*	70.0 mm	70.0 mm	70.0 mm
Depth	100.0 mm	100.0 mm	100.0 mm
Weight*	94.0-99.0 g	94.0-99.0 g	94.0-99.0 g
Seek Times* (typical):			
Average	13 ms	13 ms	12.0-13.0 ms
Single Track	3 ms	3 ms	2.5- 3.0 ms
Full Stroke	24 ms	24 ms	23.0-24.0 ms
Transfer Rate at Interface			
Ultra DMA mode (max)	66.6 MB/s	66.6 MB/s	66.6 MB/s
Rotational Speed	4200 rpm	4200 rpm	4200 rpm
Interface*	ATA-2/3/4/5	ATA-2/3/4/5	ATA-2/3/4/5
Buffer Size*	512-1024 KB	512-1024 KB	512-1024 KB

Specification	15.0 GB	20.0 GB	32.0 GB
Drive Type	Ultra DMA	Ultra DMA	Ultra DMA
Height	9.5 mm	9.5 mm	12.5 mm
Width*	70.0 mm	70.0 mm	70.0 mm
Depth	100.0 mm	100.0 mm	100.0 mm
Weight*	99.0 g	99.0 g	155.0 mm
Seek Times* (typical):			
Average	12.0-13.0 ms	12.0-13.0 ms	12.0 ms
Single Track	2.5- 3.0 ms	2.5- 3.0 ms	2.5 ms
Full Stroke	23.0-24.0 ms	23.0-24.0 ms	23.0 ms
Transfer Rate at Interface			
Ultra DMA mode (max)	66.6 MB/s	66.6 MB/s	66.6 MB
Rotational Speed	4200 rpm	4200 rpm	5411 rpm
Interface*	ATA-4/5	ATA-4/5	ATA-5
Buffer Size*	2048 KB	2048 KB	2048 KB

**Specifications vary by vendor/brand.*

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CD/DVD/CD-RW Drive

	CD or DVD Drive		
	CD ROM Drive (24X)	DVD Drive	CD-RW Drive
Dimensions	128 x 12.7 x 129 mm	128 x 12.7 x 129 mm	128 x 12.7 x 129 mm
Weight*	300 g	265-290 g	300 g or less
Rotational Speed - Approx.*	5200 RPM	1377-4670 RPM	5200 RPM
Sustained Data Transfer Rate (typical)*	16.67 MB/s 3600 KB/s	4463-10800 KB/s	600-3600 KB/s
Access Time:			
Average Random Access*	100 ms	100-130 ms	120 ms
Average Random Seek		95 ms	
Full Stroke		160 ms	
Spin-Up Time	2.0s	2.5s	10s or less
Data Buffer Capacity*	1 Mbit	128-512 KB	2.7 MB

**Specifications vary by vendor/brand.*