



# APPENDIX A

## Technical Specifications

Table A-1, provides the technical specifications for the Dell PowerEdge 300 systems.

**Table A-1. Technical Specifications**

<b>Microprocessor</b>	
Microprocessor type . . . . .	Intel Pentium III microprocessor that runs at 800 MHz
Front side bus speed . . . . .	100 MHz
Internal cache . . . . .	32-KB (16-KB data cache; 16-KB instruction cache)
L2 cache . . . . .	256-KB pipelined burst, four-way set-associative, write-back ECC SRAM on each SEC cartridge
<b>System Information</b>	
System chip set . . . . .	Intel 440BX PCI set
Data bus width . . . . .	64 bits
Address bus width . . . . .	32 bits
DMA channels . . . . .	seven
Interrupt levels . . . . .	15
System BIOS chip . . . . .	4 Mb
I/O controller . . . . .	National PC 87309

*NOTE: For the full name of an abbreviation or acronym used in this table, see the "Glossary" in this guide.*

**Table A-1. Technical Specifications** (continued)

<b>Expansion Bus</b>	
Bus types . . . . .	PCI and ISA
Bus speed . . . . .	PCI: 33.3 MHz ISA: 8.33 MHz
PCI expansion-card connectors . . . . .	six (one of the PCI connectors shares a card-slot opening with the ISA connector)
ISA expansion-card connectors . . . . .	one (the ISA connector shares a card-slot opening with one of the PCI connectors)
PCI expansion-card connector size . . . . .	120 pins
PCI expansion-card connector data width (maximum) . . . . .	32 bits
ISA expansion-card connector size . . . . .	98 pins
ISA expansion-card connector data width (maximum) . . . . .	16 bits
<b>System clock</b>	
System clock . . . . .	100 MHz
SDRAM memory clock . . . . .	100 MHz
I/O APIC clock . . . . .	14 MHz
Diskette/communications ports . . . . .	48 MHz
USB clock . . . . .	48 MHz
<b>Memory</b>	
Architecture . . . . .	72-bit ECC SDRAM
DIMM sockets . . . . .	four
DIMM capacities . . . . .	64- and 128-MB unbuffered, 72-bit SDRAM; 256-MB registered, 72-bit SDRAM
Standard RAM . . . . .	64 MB
Maximum RAM . . . . .	1 GB
BIOS address . . . . .	F000:0000h-F000:FFFFh

*NOTE: For the full name of an abbreviation or acronym used in this table, see the "Glossary" in this guide.*

**Table A-1. Technical Specifications** (continued)

<b>Drives</b>	
Externally accessible bays . . . . .	three 5.25-inch bays accommodate one 3.5-inch diskette drive (standard), one IDE CD-ROM drive (optional) and one other optional 5.25-inch peripheral
Internally accessible bays . . . . .	removable drive cage accommodates up to three 1-inch EIDE hard-disk drives
<b>Ports and Connectors</b>	
<b>Externally accessible:</b>	
Serial (DTE) . . . . .	two 9-pin connectors; 16550-compatible
Parallel . . . . .	one 25-pin connector (bidirectional)
Video . . . . .	one 15-pin connector
PS/2-style keyboard . . . . .	6-pin mini-DIN connector
PS/2-compatible mouse . . . . .	6-pin mini-DIN connector
USB . . . . .	two USB-compliant 4-pin connectors
<b>Internally accessible:</b>	
EIDE channel . . . . .	two 40-pin connectors on PCI local bus
Diskette drive . . . . .	one 34-pin connector
Fan . . . . .	3-pin connector
<b>Control panel connectors:</b>	
Thermal sensor . . . . .	3-pin connector
Chassis intrusion . . . . .	2-pin connector
<b>Video</b>	
Video type . . . . .	ATI RAGE IIC AGP integrated video controller
<b>Key Combinations</b>	
<Ctrl><Alt><Del>. . . . .	restarts (reboots) the system
<F2> . . . . .	starts System Setup program (during POST only)

*NOTE: For the full name of an abbreviation or acronym used in this table, see the "Glossary" in this guide.*

**Table A-1. Technical Specifications** (continued)

<b>Controls and Indicators</b>	
Reset control . . . . .	push button
Power control . . . . .	push button
Power indicator/sleep mode indicator . . . . .	green LED (indicates power) amber LED (indicates sleep mode)
Hard-disk drive access indicator . . . . .	green LED
Power indicator (on system board) . . . . .	green LED
Standby power indicator (on system board) . . . . .	green LED
<b>Power</b>	
<b>DC power supply:</b>	
Wattage . . . . .	330 W
Heat dissipation . . . . .	900 BTU/hr (nominal)
Voltage . . . . .	Autoranging 90 to 265 V at 47 to 63 Hz
Backup battery . . . . .	3-V CR2032 coin cell
<b>Physical</b>	
Height . . . . .	45.9 cm (18.1 inches)
Width . . . . .	21.6 cm (8.5 inches)
Depth . . . . .	43.6 cm (17.6 inches)
Weight . . . . .	16.0 kg (37.0 lb) or more, depending on options installed
<b>Environmental</b>	
<b>Temperature:</b>	
Operating . . . . .	10× to 35×C* (50× to 95×F)
Storage . . . . .	–40× to 65×C (–40× to 149×F)
Relative humidity . . . . .	8% to 80% (noncondensing)
<b>Maximum vibration:</b>	
Operating . . . . .	0.25 G at 3 to 200 Hz for 30 min
Storage . . . . .	0.5 G at 3 to 200 Hz for 30 min

\* At 35×C (95×F), the maximum operating altitude is 914 m (3000 ft).

NOTE: Under typical line conditions and over the entire system ambient operating range, the inrush may reach 140A per installed power supply.

**Table A-1. Technical Specifications** (continued)

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<b>Environmental</b> (continued)	
<b>Maximum shock:</b>	
Operating	half-sine wave form: 50 G for 2 ms
Storage	half-sine wave form: 92 G for 2 ms square wave form: 27 G for 15 ms
<b>Altitude:</b>	
Operating	-16 to 3048 m* (-50 to 10,000 ft)
Storage	-16 to 10,600 m (-50 to 35,000 ft)

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\* At 35°C (95°F), the maximum operating altitude is 914 m (3000 ft).

NOTE: For the full name of an abbreviation or acronym used in this table, see the "Glossary" in this guide.

