

Technical Specifications

Dell™ PowerEdge™ 6850 Systems User's Guide

Processor	
Processor type	up to four Intel® Xeon™ processors with a minimum clock speed of at least 3.16 GHz
Front-side bus speed	667 MHz
Internal cache	at least 1 MB
Expansion Bus	
Bus type	PCI-X and PCIe
Expansion slots	
PCI-X	one hot-pluggable 3.3-V, 64-bit, 133-MHz (slot 2); two 3.3-V, 64-bit, 100-MHz (slots 6 and 7)
PCIe	three hot-pluggable x4 lane (slots 3 through 5) one hot-pluggable x8 lane (slot 1)
Memory	
Architecture	144-bit ECC registered PC2-3200 DDR2 SDRAM DIMMs, with two-way interleaving, rated for 400-MHz operation
Memory risers	up to four interleaved memory risers, each with four 240-pin memory module DIMM sockets
Memory module capacities	256 MB, 512 MB, 1 GB, 2 GB, or 4 GB (when available)
Minimum RAM	512 MB (two 256-MB modules)
Maximum RAM	64 GB
Drives	
SCSI hard drives	up to five 1-inch, internal, hot-plug, U320 SCSI
Diskette drive	one optional 3.5-inch, 1.44-MB external optional USB 3.5-inch, 1.44-MB
Optical drive	one optional IDE CD, DVD, or combination CD-RW/DVD NOTE: DVD devices are data only.

	external optional USB CD
Flash drive	external optional USB
Connectors	
Externally accessible	
Back	
NIC	two RJ-45 (for integrated 1-GB NICs)
Serial	9-pin, DTE, 16550-compatible
USB	two 4-pin, USB 2.0-compliant
Video	15-pin VGA
Front	
Video	15-pin VGA
USB	two 4-pin, USB 2.0-compliant
Internally accessible	
SCSI channels	two 68-pin U320 SCSI
Video	
Video type	ATI Radeon 7000 video controller; VGA connectors
Video memory	16 MB
Power	
AC power supply (per power supply)	
Wattage	1470 W
Voltage	170–264 VAC, autoranging, 47–63 Hz, 11.43 A
Heat dissipation	1614.3 BTU/hr maximum
Maximum inrush current	Under typical line conditions and over the entire system ambient operating range, the inrush current may reach 55 A per power supply for 10 ms or less and 25 A per power supply for up to 150 ms.
Batteries	
System battery	CR 2032 3.0-V lithium ion coin cell
ROMB battery (optional)	4.1-V lithium ion
Physical	
Height	17.27 cm (6.8 in)
Width	44.70 cm (17.6 in)
Depth	70.10 cm (27.6 in)

Weight (maximum configuration)	41.73 kg (92 lb)
Environmental	
NOTE: For additional information about environmental measurements for specific system configurations, see www.dell.com/environmental_datasheets .	
Temperature	
Operating	10° to 35°C (50° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)
Relative humidity	
Operating	8% to 85% (noncondensing) with a maximum humidity gradation of 10% per hour
Storage	5% to 95% (noncondensing)
Maximum vibration	
Operating	0.25 G at 3–200 Hz for 15 min
Storage	0.5 G at 3–200 Hz for 15 min
Maximum shock	
Operating	One shock pulse in the positive z axis (one pulse on each side of the system) of 41 G for up to 2 ms
Storage	Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 71 G for up to 2 ms
Altitude	
Operating	-16 to 3048 m (-50 to 10,000 ft)
Storage	-16 to 10,600 m (-50 to 35,000 ft)
