DELL POWEREDGE RACK-DENSE SERVERS[1]

PRODUCTS	POWEREDGE™ 2950	POWEREDGE 6850	POWEREDGE™ 6950
	High Performance/Expandability	Enterprise Performance/Availability	Enterprise Performance/Availability
	General-purpose, rack-dense 2U server providing performance, expandability, availability, manageability and configuration flexibility • Database applications • Edge-of-network • Infrastructure server • File/print server • Messaging	Rack-dense 4U server that sets the new standard for delivering value in high performance database solutions • Back-end database and traditional OLTP • UNIX Migration • Server consolidation • Virtualization	Rack-dense 4U server that sets the new standard for delivering value in high performance database solutions • Back-end database and traditional OLTP • UNIX Migration • Server consolidation and virtualization
FEATURES			
Form factor	2U rack-mount	4U rack-mount	4U rack-mount
Processor(s)	Up to two Quad-Core Intel Xeon 5300 sequence processors at up to 2.66GHz; Up to two Dual-Core Intel Xeon 5100 sequence processors at up to 3.0GHz; Up to two Dual-Core Intel Low Volt Xeon 5148 processor at 2.33GHz; Up to two Dual-Core Intel Xeon 5000 sequence processors at up to 3.0GHz	Up to four dual-core 64-bit Intel® Xeon™ processors 7100 sequence	Up to four Dual Core AMD Opteron™ 8200 series processors at up to 2.8GHz
Front side bus or HyperTransport	Intel Xeon 5300 Sequence: Dual Independent 1066MHz or 1333MHz; Intel Xeon 5100 Sequence: Dual Independent 1066MHz or 1333MHz; Intel Xeon 5000 Sequence: Dual Independent 667MHz	Dual Independent 800MHz	1GHz HyperTrasnport™ Technology
Cache	Intel Xeon 5300 Sequence: 2x4MB; Intel Xeon 5100 Sequence: 4MB; Intel Xeon 5000 Sequence: 2x2MB	Up to 16MB L3 cache per processor (dual-core)	2x1MB L2
Chipset	Intel 5000X	Intel 8501 (800MHz)	Broadcom HT-2100 and HT-1000 server I/O controllers
Memory	Up to 32GB (8 FBD DIMM slots): 256MB/512MB/1GB/2GB/4GB Fully Buffered DIMMs (FBD) in matched pairs, 533MHz or 667MHz	1GB - 64GB DDR-2 400 ECC SDRAM	Up to 64GB (16 DIMM slots): 512MB/1GB/2GB/4 GB DDR2 667MHz ECC SDRAM
I/O slots	Three PCI Express™ slots (1 x 4 and 2 x 8) or two PCI-X® 64-bit/133MHz and one PCI Express x 8 slot	Seven total: four hot-plug PCI Express™ slots and three PCI-X slots	7 x PCIe expansion slots: 2x8, 5x4. Dedicated internal RAID PCIe slot
Drive controller	4 port SAS 5/i integrated SAS controller (no RAID)	Embedded dual channel Ultra320 SCSI	None: Dedicated internal RAID PCIe slot
RAID controller	Optional PERC 5/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC 4e/DC, PERC 5/e adapter	PERC 5/i, PERC 5/E, PERC 4/DC, PERC 4e/DC and PERC 4e/Di	Optional SAS 5/iR; PERC 5/i; PERC 5/e
Hard drives[2]	2.5" SAS (10K RPM): 36GB or 73GB; 3.5" SAS (10K RPM): 73GB, 146GB, 300GB; 3.5" SAS (15K RPM): 36GB, 73GB, 146GB; 3.5" SATA (7.2K RPM): 80GB, 160GB, 250GB, 500GB, 750GB SATAu	2.5" SAS (10K RPM): 36GB or 73GB; 3.5" SAS (10K RPM): 73GB, 146GB, 300GB; 3.5" SAS (15K RPM): 36GB, 73GB, 146GB; 3.5" SCSI (10K RPM): 73GB, 146GB and 300GB; 3.5" SCSI (15K RPM): 36GB, 73GB and 146GB	3.5" SAS (10K RPM): 73GB, 146GB, 300GB; 3.5" SAS (15K RPM): 36GB, 73GB, 146GB
Maximum Internal Storage	Up to 4.5TB: six 750GB hot-plug SATA (7.2K RPM)	Up to 584GB: eight 73GB hot-plug 2.5" SAS (10K RPM); Up to 1.5TB: five 300GB hot-plug 3.5" SAS (10K RPM); Up to 730GB: five 146GB hot-plug 3.5" SAS (15K RPM); Up to 1.5TB: five 300GB hot-plug 3.5" SCSI (10K RPM); Up to 730GB: five 146GB hot-plug 3.5" SCSI (15K RPM)	Up to 1.5TB: five 300GB hot-plug SAS (10K RPM)
External storage	SAS, SCSI and fibre channel storage systems	SAS, SCSI and fibre channel storage system (optional integrated HBAs)	Optional SAS and Fibre Channel storage systems
Network interface card	Dual embedded Broadcom NetXtreme II 5708 Gigabit[3] Ethernet NIC with fail-over and load balancing; TOE (TCPIP Offload Engine) supported on Microsoft Windows Server 2003, SP1 or higher with Scalable Networking Pack	Dual embedded Broadcom® Gigabit[3] NICs with load balancing and failover support	Dual embedded Broadcom NetXtremeII 5708 Gigabit[3] Ethernet NIC with fail-over and load balancing; TOE (TCPIP Offload Engine) supported on Microsoft Windows Server 2003, SP1 or higher with Scalable Networking Pack
Availability	ECC FBD memory, SDDC, Spare Bank; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC5/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SCSI cluster support; validated for Dell/EMC SAN	Hot-plug memory, ECC memory with SDDC, Memory RAID and Memory Mirroring; hot-plug PCI Express slots; hot-plug SCSI or SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; tool-less chassis; high availability fibre channel and SCSI cluster support; optional ROMB with battery-backed cache	Memory Sparing; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; tool-less chassis; high availability fibre channel and SAS cluster support.

Dell™ PowerEdge 6950

Dell PowerEdge Servers come with a limited warranty.[4] They also come with Dell's Basic Enterprise Support Service which includes business-hour[5] phone support for hardware failures and Next Business Day (NBD) on-site[6] service (after phone-based troubleshooting). Premium levels of services are available at www.dell.com/services.

www.dell.com