DELL POWEREDGE PERFORMANCE TOWER SERVERS



PROPULATO	DOMEDEDOE™040	POWEREDGE™1900	POWEREDGE™ 2900	POWEREDGE™ 6800
PRODUCTS	POWEREDGE™840			
	Basic Server	Entry-Level Server	Mainstream Server	High-End Server
	Addressing the needs of small and medium-sized businesses, remote offices, and retail POS environments requiring full server functionality at a low cost File/print server Internet/intranet Shared e-mail Remote/branch office Retail/POS	Delivers a great balance of 2P performance with entry-level features, expandability, and affordability • File/print sever • Internet/intranet • Groupware/messaging • LAN infrastructure • Remote/branch office • Database applications	Delivering high performance with expandability, availability, and manageability that businesses can depend on • File/print server • Internet/intranet • Groupware/messaging • LAN infrastructure • Remote/branch office • Database applications	Rackable 6U tower server that sets the new standard for delivering value in high performance database solutions Back-end database and traditional OLTP UNIX Migration Server consolidation
FEATURES				
Form factor	Tower only	Tower only	Tower or 5U rack-mount	Tower or 6U rack-mount
Processor(s)	Single Dual-Core Intel® Xeon® 3000 sequence processor at up to 2.66GHz; Single Intel Pentium® D at 2.8GHz; Single Intel Celeron® D processor at 2.8GHz	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 Xeon 5000 sequence processors at up to 3.0GHz	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 Xeon 5000 sequence processors at up to 3.0GHz	Up to four Dual-Core 64-bit Intel Xeon 7100 sequence processors at up to 3.4MHz
Front side bus	Intel Xeon 3000: Dual Independent 1066MHz; Intel Pentium D: 800MHz; Intel Celeron D: 533MHz	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;	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	Intel Xeon 7100: Dual Independent 800 MHz
Cache	Intel Xeon 3000: Up to 4MB; Intel Pentium D: 2x2MB; Intel Celeron D: 256KB	Intel Xeon 5300 Sequence: 2x4MB; Intel Xeon 5100 Sequence: 4MB; Intel Xeon 5000 Sequence: 2x2MB	Intel Xeon 5300 Sequence: 2x4MB; Intel Xeon 5100 Sequence: 4MB; Intel Xeon 5000 Sequence: 2x2MB	Intel Xeon 7100: Up to 16MB
Chipset	Intel 3000	Intel 5000P	Intel 5000X	Intel 8501 (800 MHz)
Memory	Up to 8GB (4 DIMM slots): 512MB/1GB/2GB ECC DDR-2 533/667MHz SDRAM	Up to 16GB (8 FBD DIMM slots): 256MB/512MB/1GB/2GB Fully Buffered DIMMs (FBD) in matched pairs, 533MHz or 667MHz	Up to 48GB (12 FBD DIMM slots): 256MB/512MB/1GB/2GB/4GB Fully Buffered DIMMs (FBD) in matched pairs, 533MHz or 667MHz	Up to 64GB (16 DIMM slots): 256MB/512MB/1GB/2GB/4GB ECC DDR-2 SDRAM, 533MHz or 667MHz
I/O slots	Five total: two PCI Express" slots (1 x 8 lane and 1 x 1 lane); two PCI-X" slots (64-bit/133MHz, 3.3v); one PCI slot (32-bit/33MHz, 5v)	Six total: four PCI Express slots (1 x 8 and 3 x 4 slots); two PCI-X slots (64-bit/133MHz)	Six total: four PCI Express slots (3 x 4 lane and 1 x 8 lane); two PCI-X slots (64-bit/133MHz)	Seven total: four PCI Express slots and three PCI-X slots
Drive controller	Four channel embedded SATA controller; optional SAS	Integrated two-channel SAS/SATA controller, optional 4-port SAS/SATA controller, optional 39320A SCSI controller (for tape)	4 port SAS 5/i integrated SAS controller (no RAID)	Embedded dual channel Ultra320 SCSI
RAID controller	PERC 5/i (w/ battery); PERC 5/e; SAS 5/iR	PERC 5/i; PERC 5/e; SAS 5/iR	Optional PERC 5/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC 4e/DC, PERC 5/e adapter	PERC 5/e; PERC 4/DC; PERC 4e/DC; PERC 4e/Di
Hard drives ¹	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	3.5" SAS (10K RPM): 73GB, 146GB, 300GB; 3.5" SATA (7.2K RPM): 80GB, 160GB, 250GB, 500GB, 750GB	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, 500MB SATAu	3.5" Ultra320 SCSI (10K RPM): 73GB, 146GB, 300GB; 3.5" Ultra320 SCSI (15K RPM): 36GB, 73GB, 146GB
n Internal Storage	Up to 1.2TB: four 300GB cabled or hot-plug SAS (10K RPM); Up to 584GB: four 146GB cabled or hot-plug SAS (15K RPM); Up to 2TB: four 500GB cabled or hot-plug SATA (7.2K RPM)	Up to 4.5TB: six 750GB cabled 3.5* SATA (7.2K RPM)	Up to 7.5TB: ten 750GB SATA (7.2K RPM)	Up to 3.6TB: twelve hot-plug 300GB SCSI
External storage	SAS storage systems (MD1000)	39320A SCSI Controller (for tape), PERC 5e, or Dell/EMC fibre channel HBA's	SAS, SCSI and fibre channel storage systems	SAS, SCSI and fibre channel storage systems
ork interface card	Single-port embedded Broadcom® Gigabit® NIC	Single-port embedded Broadcom Gigabit [*] NIC	Dual embedded Broadcom NetXtreme II* 5708 Gigabit* 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 ¹ NICs
Availability	Highly serviceable tool-less chassis; ECC memory; hot-plug SAS and SATA hard drives; optional hardware SAS or SATA RAID OpenManage Systems Management Support; Optional Dell Remote Access Controller (DRAC 4/p) for remote deployments	ECC memory: Single Device Data Correction (SDDC); optional PFRC 5i w/ battery backed 255MB DDR cache; tool-less chassis; cluster support, Full OpenManage Systems Management Suite Support; validated for Dell EMC SANs; and optional Dell Remote Access Controller (DRAC 5) for remote deployments	ECC FBD memory, Dual embedded Broadcom NetXtreme II* 5708 Gigabit Ethernet NIC with fail-over and load balancing; SDDC, Spare Bank, hot-plug SAS/SATA hard drives; hot-plug, optional redundant power; redundant cooling; tool-less chassis; optional PERGS/i integrated daughtercard with battery-backed cache; Active ID, LCD panel; fibre channel, SCSI cluster support; validated for Dell/EMC SAN	ECC memory with SDDC, Memory Mirroring and Memory RAID; hot-plug SCSI hard drives; hot-plug redundant power ⁴ , hot-plug redundant cooling; tool-less chassis; high availability fibre channel and SCSI cluster support; optional ROMB with battery-backed cache



Dell™PowerEdge 2900

Dell PowerEdge Servers come with a limited warranty. Dell's Basic Business Hour Service includes business-hour phone support for hardware failures and Next Business Day (NBD) on-site⁵ service (after phone-based troubleshooting)

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