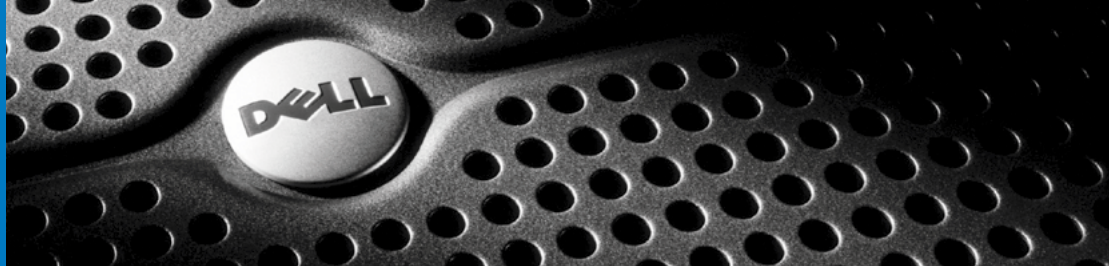


Dell PowerEdge 6600 and PowerEdge 6650 Servers



Designed for organisations with high performance and high availability requirements, the Dell™ PowerEdge™ 6600 and PowerEdge 6650 servers are ideal systems for Internet infrastructures or traditional data centre environments.

Performance

Dell PowerEdge 6600 and PowerEdge 6650 servers offer you outstanding quad-processor performance, expandability and availability along with outstanding serviceability. The PowerEdge 6600 incorporates the latest server technology into a 7U freestanding or rack-mountable chassis, while the PowerEdge 6650 packs similar performance features into a rack-dense 4U form factor.

Designed for business-critical applications that need scalable performance with multi-processors, large on-die cache, superior memory and robust I/O bandwidth, both servers feature Intel® Xeon™ MP processors on the ServerWorks Grand Champion HE (GC-HE) chipset. The chipset delivers 3.2GB/s of memory bandwidth, peer-to-peer bus architecture and up to 4.8GB/s of I/O throughput. In addition, the processors offer Hyper-Threading support for improved performance on your multi-threaded applications.

Furthermore, the PowerEdge 6600 and PowerEdge 6650 are designed to support the next generation of Intel Xeon MP processors, which allows you to take advantage of advances made by Intel in processing technology.

Availability

The PowerEdge 6600 and PowerEdge 6650 feature memory technology that provides the latest in enterprise-level availability. For instance, Spare Bank memory, Memory Mirror and Error Correcting Code (ECC) SDRAM memory with support for ChipKill™ technology enable the servers to withstand errors that could crash a system that does not support this technology.

The PowerEdge 6600 and PowerEdge 6650 servers also support hot-plug redundant power supplies and fans as well as hot-plug hard drives and PCI slots. This allows you to replace components without powering down the server. Both servers have dual embedded Gigabit NICs to help maximise I/O throughput or provide fail-over support for increased availability and reliability.

Expandability

Both systems are designed to meet the growing needs of demanding server environments. They provide up to 32GB of double data rate (DDR) SDRAM and support four-way memory interleaving for higher SDRAM bandwidth. Consequently, you can scale your server memory as application demands increase.

Additionally, the PowerEdge 6600 provides up to twelve internal hard drives that offer as much as 1752GB of internal storage. Similarly, the PowerEdge 6650 provides up to five hard drives with a maximum internal storage capacity of 730GB. Further expandability is provided with eleven I/O slots on the PowerEdge 6600 and eight I/O slots on the PowerEdge 6650.

Serviceability

The PowerEdge 6600 and PowerEdge 6650 offer unique modular chassis designed to provide day-in, day-out reliability and serviceability, which can help lower your total cost of ownership (TCO). Both server models feature tool-less access to internal components and the number of cables inside the servers is minimised for further simplicity. Moreover, the Dell logo on the bezel changes from a blue to an amber caution light if the system encounters a failure. In addition, to help accelerate diagnosis and repair of the failure, the LCD panel behind the system bezel displays error codes and text messages further detailing the problem.

The PowerEdge 6600 and PowerEdge 6650 are state-of-the-art enterprise servers that provide high levels of performance, help maximise uptime and availability, offer expandability, and provide exceptional data protection.



Dell PowerEdge 6650



Dell PowerEdge 6600

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Telephone technical support from Dell's Gold Queue

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Change notification services

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Optional Upgrades

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On-site troubleshooting

On-site engineer and parts

Customer training

FEATURES

	PowerEdge 6600	PowerEdge 6650
Form Factor	7U tower or rack-mount	4U rack-mount
Processor(s)	Up to four Intel® Xeon™ MP processors at 1.5GHz, 1.9GHz and 2.0GHz	Up to four Intel Xeon MP processors at 1.5GHz, 1.9GHz and 2.0GHz
Front Side Bus	400MHz	400MHz
Cache	1.5GHz with 1MB L3; 1.9GHz with 1MB L3; 2.0GHz with 2MB L3	1.5GHz with 1MB L3; 1.9GHz with 1MB L3; 2.0GHz with 2MB L3
Chipset	ServerWorks GC-HE	ServerWorks GC-HE
Memory	512MB - 32GB DDR SDRAM; four-way memory interleaving	128MB - 32GB PC200 DDR SDRAM; four-way memory interleaving
I/O Channels	14 total: ten PCI-X slots (64-bit/100MHz), one PCI slot (32-bit/33MHz), one embedded Ultra3 (U160) SCSI controller and dual embedded Gigabit NICs (62-bit/66MHz)	11 total: seven PCI-X slots (64-bit/100MHz), embedded Ultra3 (U160) SCSI controller, dual embedded Gigabit NICs (64-bit/66MHz), and one legacy slot (32-bit/33MHz)
Drive Controller	Embedded single channel Ultra3 (U160) SCSI	Embedded single channel Ultra3 (U160) SCSI
Drive Bays	Hard drive bays for 8 x 1" hot-plug SCSI drives Media bays for one 24X IDE CD-ROM or one 8X IDE DVD-ROM and one 3.5" 1.44MB diskette drive Media bays convertible to full-height or half-height internal tape device, or 4 x 1" hot-plug SCSI drives	Hard drive bays for 5 x 1" hot-plug SCSI drives (splittable into 1x5 or 2+3) Media bay for one 24X IDE CD-ROM or 8X IDE DVD ROM, one 3.5" 1.44MB diskette drive
Maximum Internal Storage	1752GB (8x146GB plus 4 x 146GB in media bay)	730GB (5 x 146GB)
Hard Drives	18GB, 36GB, 73GB & 146GB (10,000 rpm) and 18GB, 36GB (15,000 rpm) Ultra3 (U160) SCSI	18GB, 36GB, 73GB & 146GB (10,000 rpm) and 18GB, 36GB (15,000 rpm) Ultra3 (U160) SCSI
External Storage	SCSI and fibre channel storage systems	SCSI and fibre channel storage systems
Network Interface Card	Two embedded Broadcom® Gigabit BaseT	Two embedded Broadcom Gigabit BaseT
Power	Three standard 600W hot-plug, redundant power supplies (2+1); optional AC switch for AC redundancy	Two standard 900W hot-plug, redundant power supplies (1+1); standard, integrated AC redundancy
Availability	Spare Bank and Memory Mirror configurable ECC memory with ChipKill™ support Dual embedded NICs with fail-over and load-balancing support Hot-plug redundant power supplies and fans Hot-plug hard drives and PCI slots High availability fibre channel and SCSI cluster support	Spare Bank and Memory Mirror configurable ECC memory with ChipKill support Dual embedded NICs with fail-over and load-balancing support Hot-plug redundant power supplies and fans Hot-plug hard drives and PCI slots High availability fibre channel and SCSI cluster support
Graphics	Integrated ATI-Rage IIc controller, 8MB SDRAM	Integrated ATI-Rage IIc controller, 8MB SDRAM
Optional software	Microsoft Windows® 2000 Server; Microsoft Windows 2000 Advanced Server; Red Hat® Linux® 7.2; Red Hat Linux Advanced Server 2.1; Red Hat Linux Professional 8.0 and Novell® NetWare®, Version 5.1 (no factory install)	Microsoft Windows® 2000 Server; Microsoft Windows 2000 Advanced Server; Red Hat Linux 7.2; Red Hat Linux Advanced Server 2.1; Red Hat Linux Professional 8.0 and Novell NetWare, Version 5.1 (no factory install)
Dimensions (H x W x D)	300mm x 441mm x 685mm	172mm x 425mm x 685mm

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