Dell PowerEdge 6600 and PowerEdge 6650 Servers

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

Performance

Dell PowerEdge 6600 and PowerEdge 6650 servers offer you best-in-class quad-processor performance, expandability and availability along with outstanding serviceability. The PowerEdge 6600 incorporates the latest server technology into a 7U free standing 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™ processor MPs 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. And 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 multiple generations 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. Spare Bank, Memory Mirroring 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.

PowerEdge 6600 and PowerEdge 6650 servers also include hot-plug redundant power supplies, SCSI hard drives, fans and PCI slots so that you can replace components without powering the server down. Plus, the dual embedded Gigabit Network Interface Cards (NICs) provide failover support and help maximize I/O throughput 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 over 1.7TB (1,752GB) 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 minimized 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. And 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 maximize uptime and availability, offer expandability, and provide exceptional data protection.

PowerEdge 6650

PowerEdge 6600

Exceptional performance. Easy as DELL™

Dell PowerEdge 6600 and PowerEdge 6650 Servers

DELL ENTERPRISE SERVICES

By leveraging the proven advantages of our direct model, including tailored service and support, low cost and a single point of accountability, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. Whether you need professional consulting, training and certification, deployment, or support services, Dell promises to be your single point of accountability at all times.

Professional Services

Dell Professional Services enables Dell customers to optimize ROI by leveraging complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver the desired results.

Deployment Services

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers' specifications by customizing the hardware and software configuration during the initial system-build to reduce redundancy and time. We can manage the delivery, installation and disposal of your assets with the same eye for efficiency.

Training and Certification Services

Our approach to Training and Certification allows you to outsmart your competitors - not outspend them - with industry standard learning across Dell hardware and industry standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

Enterprise Support Services

Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our Enterprise Support Services offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management, and remote resolution, Dell provides support solutions that meet your needs, cost effectively.

FEATURES	PowerEdge 6600	PowerEdge 6650
Form factor	Tower or 7U rack-mount	4U rack-mount
Processor(s)	Up to four Intel® Xeon™ processor MPs at 2.0GHz/1MB, 2.2GHz/2MB, 2.7GHz/2MB and 3.0GHz/4MB	Up to four Intel Xeon processMPs at 2.0GHz/1MB, 2.2GHz/2MB, 2.7GHz/2MB and 3.0GHz/4MB
Front side bus	400MHz	400MHz
Cache	512K L2 and up to 4MB L3	512K L2 and up to 4MB L3
Chipset	ServerWorks GC-HE	ServerWorks GC-HE
Memory	32GB DDR266 ECC SDRAM; four-way memory interleaving	32GB DDR266 ECC 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 (64-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, 8X DVD-ROM, 24X IDE CD-RW/DVD 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 and one 24X IDE CD-RW/DVD, one 3.5" 1.44MB diskette drive
Maximum internal storage	1.7TB or 1,752GB (8*146GB + 4*146GB in media bay)	730GB (5*146GB)
Hard drives	36GB, 73GB and 146GB (10,000 rpm) and 18GB, 36GB, 73GB (15,000 rpm) Ultra320 SCSI	36GB, 73GB and 146GB (10,000 rpm) and 18GB, 36GB, 73GB (15,000 rpm) Ultra320 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 mirroring; configurable ECC memory with ChipKill support Dual embedded NICs with failover 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 mirroring; configurable ECC memory with ChipKill support Dual embedded NICs with failover 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® Server 2003 Enterprise Edition; Microsoft Windows Server 2003 Standard Edition; Microsoft Windows 2000 Advanced Server; Microsoft Windows 2000 Server; Novell® Netware® 6.5; Red Hat® Linux 9.0; Red Hat Linux Advanced Server 2.1	Microsoft® Windows® Server 2003 Enterprise Edition; Microsoft Windows Server 2003 Standard Edition; Microsoft Windows 2000 Advanced Server; Microsoft Windows 2000 Server; Novell® Netware® 6.5; Red Hat® Linux 9.0; Red Hat Linux Advanced Server 2.1
Dimensions (H x W x D)	12.13" x 17.38" x 27" (30.0cm x 44.13cm x 68.58cm)	6.8" x 16.75" x 27" (17.27cm x 42.55cm x 68.58cm)

Exceptional performance. Easy as **DELL**™

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