

Dell PowerEdge 6850 Server

The Dell™ PowerEdge™ 6850 is the new standard for delivering high performance database solutions with over 100% greater performance than its predecessor¹ for approximately the same price. This server offers high availability and performance as part of Dell's comprehensive data center solutions for the Scalable Enterprise.

Performance

Designed to give you the latest high performance technologies, management tools and storage features, the scalable, quad processor Dell PowerEdge 6850 server is a part of Dell's comprehensive solution for databases and business-critical applications such as Microsoft® SQL Server, Oracle®, PeopleSoft® and SAP®. Powered by single-core or dual-core 64-bit Intel® Xeon™ processors MP, a 667MHz Front Side Bus, up to 64GB DDR-2 Memory and PCI Express™, this server provides exceptional performance in a 4U rack dense form factor.

Availability

The PowerEdge 6850 server features advanced memory technology for enterprise-class availability. Memory features such as Memory RAID, mirroring and hot-plug DDR-2 SDRAM with Error Correcting Code (ECC) memory plus SDDC keep systems performing without interruption by withstanding errors that could normally bring a system without these high availability features down. In addition, the PowerEdge 6850 provides hot-plug memory, redundant power supplies, PCI Express slots, hard drives and cooling fans so that you can replace components without having to make the server unavailable to its users.

Expandability

The Dell PowerEdge 6850 server is designed to meet the growing needs of demanding database and enterprise application environments with features such as an optional integrated HBA for factory installed and tested Fibre Channel SAN connectivity. It features four hot-plug PCI Express slots and three PCI-X slots that deliver further expandability for redundant connections to the network and storage. In addition, this server includes redundant integrated NICs so that you can get the most out of your PCI slots. Additionally, five one-inch SCSI drives and the PCI Express capable PERC 4e/DC RAID option or PERC 4e/Di onboard option enhance availability and performance.

Manageability and Serviceability

The PowerEdge 6850 server offers the latest in easy-to-manage and easy-to-service technology. The Dell OpenManage™ software suite helps to minimize deployment time, costs and impact on productivity. What's more, the optional PCI-based DRAC 4 remote management card allows your IT administrators to securely manage servers located in different buildings or cities.

The PowerEdge 6850 also features a modular chassis designed to provide day-in, day-out ease of serviceability. This server model features tool-less access to internal components. Furthermore, Dell Enterprise Support Services provide the right level of support and outstanding service quality.

Designed for high performance, high availability, ease-of-management and simplified serviceability, the Dell PowerEdge 6850 is ideal for growing data center environments.



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GET MORE PERFORMANCE AND VALUE. GET MORE OUT OF NOW.





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DELL ENTERPRISE SERVICES

Dell Services can deliver the services you need to realize the full value of your IT investment. Complementing our award-winning products, these IT infrastructure services incorporate operational excellence, accountability and value.

By utilizing our best practices, proven processes and expertise in implementing standards-based technologies, we can help strengthen your IT infrastructure and enable you to adopt evolving technologies. Whether you need support, deployment, asset management, training, certification, planning or professional services – individually or bundled as a total solution – you can count on Dell.

Strengthening Your IT Infrastructure

Our planning services help integrate your new enterprise hardware into your existing or evolving IT infrastructure. We can provide guidance whether you're adding a single or multiple servers, storage area network or high-performance computing cluster.

We can also help you enhance the overall performance of your IT infrastructure and data center by consolidating software and hardware, developing a business continuity plan and migrating to standards-based technologies.

Simplifying Deployment

Dell simplifies implementation with comprehensive services that accelerate deployment of new hardware and IT solutions. During the initial system-build of your server, we can customize software and hardware to match your specific requirements. By helping you rapidly deploy new capabilities while minimizing disruptions, we can contribute to improved efficiencies and lower costs.

Our training services provide education and certification courses to help you better manage and use your new hardware so you can reap the full benefits of standards-based technologies.

Providing Award-Winning Service & Support

Your server and storage infrastructure is central to your business, which is why you need a partner who can help minimize downtime and keep your business-critical systems running efficiently. Our enterprise support services are designed to protect your entire enterprise or to focus on specific systems. These customizable services include hardware and software support with varied response levels, account management and remote resolution.

We can also help you enhance the performance of your data center and provide managed IT solutions and asset management services for your enterprise, desktop and notebook environments.

The Dell Enterprise Command Centers (ECC) – which utilize industry-leading technologies and tools that speed up problem resolution – efficiently route spare parts and direct expert technicians to your site.

Services vary by region. For more information, please visit www.dell.com.

FEATURES Dell™ PowerEdge™ 6850 Server

Form factor	4U rack height
Processor(s)	Up to four single-core or dual-core 64-bit Intel® Xeon™ processors MP
Front side bus	Dual Independent 667MHz
Cache	Up to 8MB L3 (single-core) or up to 2MB L2 per processor core (dual-core)
Chipset	Intel 8500 (667MHz)
Memory	1GB - 64GB ECC DDR-2 400 SDRAM
I/O slots	Seven total: four hot-plug PCI Express™ slots and three PCI-X slots
Drive controller	Embedded dual channel Ultra320 SCSI
RAID controller	PERC 4/DC, PERC 4e/DC and PERC 4e/Di
Drive bays	Five 1" Ultra320 hot-plug SCSI drives; floppy drive and CD or CD-RW/DVD ²
Maximum internal storage	Up to 1.5TB ³
Hard drives ³	73GB, 146GB and 300GB (10,000 rpm) Ultra320 SCSI 36GB, 73GB, 146GB (15,000 rpm) Ultra320 SCSI
Internal storage performance	10K/15K RPM SCSI drives
External storage	SCSI and fibre channel storage systems with optional integrated HBA
Tape backup options	External only
Network interface card	Dual embedded Broadcom® Gigabit ⁴ NICs
Power supply	1470W, hot plug 1+1 redundant power, 200-240V only
Availability	Hot-plug memory, ECC memory with SDDC, Memory RAID and Memory Mirroring; hot-plug PCI Express slots; hot-plug SCSI 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
Video	Embedded ATI-Radeon 7000 controller with 16MB SDRAM
Remote management	Baseboard Management Controller with IPMI 1.5 compliance, accessible via network or serial port; optional DRAC 4/p
Systems management	Dell OpenManage™
Rack support	4-post for Dell rack or supported 3rd party racks
Operating systems	Microsoft® Windows Server™ 2003, Standard x64 Edition; Microsoft Windows Server 2003, Enterprise x64 Edition; Microsoft Windows Server 2003, Standard Edition; Microsoft Windows Server 2003, Enterprise Edition; Red Hat® Enterprise Linux® 3 and 4; SUSE® Linux Enterprise Server 9 EM64T SP2; VMware® ESX Server™ 2.5.1

¹Based on the SPECjbb2000 benchmark test performed by Dell Labs in March 2004 and November 2005 comparing the Dell PowerEdge 6850 with the PowerEdge 6650. Actual performance will vary based on configuration, usage and manufacturing variability.

²Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility.

³For hard drives, 1 GB means 1 billion bytes and 1 TB means 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

⁴This term does not connote an actual operating speed of 1 GB/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

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