

# Dell PowerEdge 2850 Server

The Dell™ PowerEdge™ 2850 server offers the perfect balance of performance, storage capacity, configuration flexibility and rack density making it ideal for network infrastructure applications that also demand uncompromised availability and expandability.



December 28, 2004  
Dell PowerEdge 2850



October 5, 2004  
Dell PowerEdge 2850



Dell PowerEdge 2850

## Expandable Performance

With up to six hard drive bays, up to two Intel® Xeon™ processors (single-core or dual-core) supporting an 800MHz Front Side Bus and up to 16GB<sup>2</sup> of DDR-2 memory, the PowerEdge 2850 server is designed for top-notch performance today and the ability to expand in the future. And it packs all of this into a space-conscious 2U chassis. Additionally, the system includes support for PCI Express™, the latest development in I/O throughput that helps your server keep pace with advances in I/O technologies. Plus, the PowerEdge 2850 server is designed to support expansion with Intel Extended Memory 64 Technology that supports both 32-bit and 64-bit applications enabling you to easily expand into 64-bit technology.

## Uncompromising Availability

The PowerEdge 2850 server addresses the need for high availability in intense network applications. It features optional hot-plug redundant power supplies and standard hot-plug hard drives, RAID 0, 1, 5, 10 or 50 support for data redundancy, an optional internal tape drive for local data backup, Memory Mirroring and redundant Network Interface Controllers to keep your systems running while protecting your data. Additionally, support for high availability SCSI or fibre channel clustering provides flexible, scalable availability.

## Manageability and Serviceability

Simple yet powerful management features, both local and remote, are key benefits of the PowerEdge 2850 server. PowerEdge 2850 includes a standard Baseboard Management Controller that is compliant with Intelligent Platform Management Interface (IPMI) 1.5 so that you can manage your systems from anywhere, anytime with any management program that supports IPMI. The optional DRAC 4/I remote management card with continuous video monitoring, virtual floppy/CD access and Active Directory integration provides an additional level of manageability. Additionally, it shares common BIOS and drivers with PowerEdge 1850 and 2800 servers making it easy to perform software upgrades and maintenance while helping to reduce Total Cost of Ownership.

What's more, the PowerEdge 2850 system is built for ease-of-use and serviceability. The 2U chassis easily slides in and out of the rack for rapid service, and the chassis does not require tools for servicing or replacing components. The LCD panel details the status of your system and the bezel display includes Active ID indicators that immediately alert you in the event of system failures.

The PowerEdge 2850 is designed to deliver new levels of performance while offering a balance of storage capacity and rack density making it a perfect solution for growing network infrastructure environments.

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



## 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](http://www.dell.com).

## FEATURES Dell™ PowerEdge™ 2850 Server

<b>Form factor</b>	2U rack height
<b>Processors</b>	Up to two single-core 64-bit Intel® Xeon™ processors at up to 3.8GHz or up to two dual-core 64-bit Intel Xeon processors at 2.8GHz
<b>Front side bus</b>	800MHz
<b>Cache</b>	Up to 2MB L2 per processor core
<b>Chipset</b>	Intel E7520
<b>Memory</b>	256MB/12GB DDR-2 400 SDRAM; 16GB with availability of dual rank 4GB DIMMs <sup>2</sup>
<b>I/O channels</b>	Three total: three PCI-X <sup>®</sup> slots (64-bit/133MHz) or two PCI Express™ slots (1 x 4 lane and 1 x 8 lane) and one PCI-X slot (64-bit/100MHz)
<b>Drive controller</b>	Embedded dual channel Ultra320 SCSI; internal and external routing
<b>RAID controller</b>	Optional dual channel ROMB (PERC 4e/Di), PERC 4/DC and PERC 4e/Dc adapters
<b>Drive bays</b>	Six 1" Ultra320 hot-plug SCSI drives or five drive bays and one tape drive bay
<b>Maximum internal storage</b>	Up to 1.8TB with 300GB HDD
<b>Hard drives<sup>3</sup></b>	36GB, 73GB, 146GB and 300GB (10,000 rpm) Ultra320 SCSI 18GB, 36GB, 73GB and 146GB (15,000 rpm) Ultra320 SCSI
<b>Internal storage</b>	10K/15K RPM SCSI drives
<b>External storage</b>	Dell PowerVault™ SCSI and Dell/EMC fibre channel storage
<b>Tape backup options</b>	Internal: PowerVault 110T External: PowerVault 114T, 124T, 132T and 136T
<b>Network interface card</b>	Dual embedded Intel Gigabit <sup>®</sup> NICs; single and dual port Intel PRO/1000 MT Gigabit adapters, Intel PRO/1000 MF (optical)
<b>Power supply</b>	700W, optional hot-plug redundant power
<b>Availability</b>	ECC memory; Single Device Data Correction (SDDC); Spare Bank; Memory Mirroring; hot-plug SCSI hard drives; optional 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; optional Split Backplane; optional PERC RAID controller
<b>Video</b>	Embedded ATI Radeon 7000-M with 16MB SDRAM
<b>Remote management</b>	Baseboard Management Controller with IPMI 1.5 compliance, accessible via network or serial port; optional slot-free DRAC 4/I
<b>Systems management</b>	Dell OpenManage™
<b>Rack support</b>	4-post (Dell rack), 2-post and 3rd party; Cable Management Arm
<b>Operating systems</b>	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® Linux® Enterprise v2.1; Red Hat Linux Enterprise v3; Red Hat Linux Enterprise v3 Advanced Server EM64T; Novell® NetWare® 5.1 and 6.5

<sup>1</sup> PC Magazine Editors' Choice Award Logo is a registered trademark and PC Magazine Best of 2004 Award Logo is a trademark of Ziff Davis Publishing Holdings Inc. Used under license.

<sup>2</sup> With availability of the dual ranked 4GB DIMMs scheduled for 2nd half of 2005

<sup>3</sup> For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less

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

Dell is not responsible for errors in typography or photography. Dell, PowerEdge, PowerVault and OpenManage are trademarks of Dell Inc. Intel is a registered trademark and Xeon is a trademark of Intel Corporation. Linux is a registered trademark of Linus Torvalds. Microsoft and Windows are registered trademarks of Microsoft Corporation. Novell and NetWare are registered trademarks of Novell, Inc. PCI Express is a trademark and PCI-X is a registered trademark of PCI-SIG. Red Hat is a registered trademark of Red Hat, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. © Copyright 2005 Dell Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of Dell Inc. is strictly forbidden. For more information, contact Dell. September 2005, Kolar.

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

Visit [www.dell.com](http://www.dell.com) for more information.

