

## Dell PowerEdge 1850 Server



**The dual processor Dell™ PowerEdge™ 1850 server packs some of the latest advanced features in performance, availability and manageability into an incredibly slim 1U chassis making it perfect for High Performance Computing Clusters (HPCC) as well as edge-of-network and Internet infrastructure environments.**

### **Space-conscious, Expandable Performance**

Delivering intense power and redundancy in a rack dense format, the PowerEdge 1850 server is designed to maximize computing power per square foot. In fact, as many as 42 servers can occupy less than seven square feet of data center floor space helping to enable less expensive overhead and room to grow. As a result, the PowerEdge 1850 server offers an exceptional solution for technology refreshes as well as new technology deployments.

With two Intel® Xeon™ processors and an 800MHz Front Side Bus, the PowerEdge 1850 system is designed to provide high speed data processing. Plus, the server offers up to 16GB<sup>1</sup> of DDR-2 memory for memory intensive applications. It also includes Intel Extended Memory 64 Technology (EM64T) to enable continued utilization of existing 32-bit technology with the capacity to incorporate 64-bit operating systems and applications in the future. With support for PCI Express™ architecture, the PowerEdge 1850 server delivers next generation I/O throughput for future high throughput peripherals.

### **Uncompromising Availability**

In spite of its small size, the PowerEdge 1850 server is rich in high availability features. It includes hot-plug hard drives that allow you to remove and replace drives while the server is operating with a RAID controller. You can add the redundant power supply option without occupying the dual PCI slots, allowing you to retain expandability without compromising redundancy. It also provides redundant cooling fans, Memory Mirroring and redundant Network Interface Controllers. What's more, the PowerEdge 1850 server supports High Availability Clustering and Storage Area Networks so that you can scale your external storage with high availability.

### **Manageability**

The PowerEdge 1850 system delivers optimum functionality with advanced, easy-to-use manageability features. Its SCSI hard drive carrier is compatible with all eighth generation PowerEdge rack and tower servers for enhanced data interoperability and to help minimize operational costs. Additionally, it shares common BIOS and drivers with the PowerEdge 2800 and 2850 servers making it easy to perform software upgrades and maintenance while helping to reduce Total Cost of Ownership. Plus, the standard Baseboard Management Controller with Intelligent Platform Management Interface (IPMI) 1.5 compliance means you can manage your PowerEdge 1850 remotely with any management software that supports IPMI. And the DRAC 4/I option further enhances remote manageability with continuous video, virtual floppy/CD and Active Directory integration.



Dell PowerEdge 1850

The PowerEdge 1850 server offers some of the latest performance, availability and manageability capabilities in a rack-dense 1U, dual processor server.





# Dell PowerEdge 1850 Server

## 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. By doing so, we offer a combination of bundled best practices and tailored solutions that work together to provide maximum value to you. Whether you need support, deployment, training and certification programs, or professional consulting services, individually or bundled as a total package, 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

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 Premier Enterprise Support Services (PESS) 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 Dell™ PowerEdge™ 1850 Server

<b>Form factor</b>	1U rack height
<b>Processors</b>	Up to two Intel® Xeon™ processors with Intel Extended Memory 64 Technology at up to 3.6GHz
<b>Front side bus</b>	800MHz
<b>Cache</b>	1MB L2
<b>Chipset</b>	Intel E7520
<b>Memory</b>	256MB/12GB DDR-2 400 SDRAM; 16GB with availability of dual rank 4GB DIMMs <sup>1</sup>
<b>I/O channels</b>	Two total: two PCI-X® slots (1 x 64-bit/133MHz and 1 x 64-bit/100MHz) or two PCI Express™ slots (1 x 4 lane and 1 x 8 lane)
<b>Drive controller</b>	Embedded single channel Ultra320 SCSI
<b>RAID controller</b>	Optional single channel ROMB (PERC 4e/Di), PERC 4/DC, PERC 4/SC, and PERC 4e/DC adapters
<b>Drive bays</b>	Two 1" Ultra320 hot-plug SCSI drives
<b>Maximum internal storage</b>	SCSI: up to 600GB <sup>3</sup> with availability of 300GB hard drive
<b>Hard drives<sup>2</sup></b>	36GB, 73GB, 146GB and 300GB <sup>3</sup> (10,000 rpm) Ultra320 SCSI 18GB, 36GB, 73GB and 146GB <sup>3</sup> (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: none External: PowerVault 114T, 122T, 128T, 132T and 136T
<b>Network interface card</b>	Dual embedded Intel Gigabit <sup>4</sup> NICs; single and dual port Intel PRO/1000 MT Gigabit adapters; Intel PRO/1000 MF (optical)
<b>Power supply</b>	550W, 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; redundant cooling; tool-less chassis; high availability fibre channel and SCSI cluster support; optional ROMB with battery-backed cache; optional RAID controllers
<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
<b>Operating systems</b>	Microsoft® Windows® Server 2003 Standard Edition, Windows Server 2003 Web Edition, Windows Server 2003 Enterprise Edition, Red Hat® Linux® Enterprise v2.1, Red Hat Linux Enterprise v3 Advanced Server EM64T, Red Hat Linux Enterprise v3, Novell® NetWare® 5.1 and 6.5

<sup>1</sup>With availability of the dual ranked 4GB DIMMs scheduled for Q1 2005

<sup>2</sup>For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less

<sup>3</sup>Availability scheduled for Q4 2004

<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

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