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 12GB[1] of DDR2 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 technologies.

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 minimise 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 Base 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 DRAC4/I option further enhances remote manageability with continuous video, virtual floppy/CD and Active Directory integration.

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

Exceptional Space-Saving Performance and Availability. Easy as DELL™

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, or training and certification programs, individually or bundled as a total package, Dell promises to be your single point of accountability at all times.

Dell Enterprise Deployment Services Can Help Improve IT Efficiency

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.

Dell Training and Certification Can Help Your Staff Keep Up with New Technology

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, or in a classroom setting, to help your organisation take full advantage of information technology.

Premier Enterprise Support Service Provides Your Enterprise with the Support to Meet Your Needs

Technology is a significant investment, and it pays to have a partner who can help you minimise costly downtime. Through our Premier Enterprise Support Services (PESS) offerings, Dell provides tiered support service packages with the flexibility to customise 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.

Service	Gold (Dell Recommended)	4-Hour[3]	Next Business Day[4]
Ideal for	Production Environment	Development Environments	Testing for File/ Print environments
On-site Hardware Support	4-Hour Response	4 hours response	Next Business Day Response
Hardware Phone Support	Enterprise Expert Center (Gold Queue) - Shorter call wait time - Higher % of first-time call resolution	Standard enterprise helpdesk	Standard enterprise helpdesk
Online Support Portal (premier.ap.dell.com) - self-maintenance tool	X	X	X
Seamless Support	X		
Customised Call Handling - Customer- defined severity/priority handling	X		
Technical Account Management Team (TAM) assistence	X		
Change Notification - Patch Fix, BIOS updates	X		
Remote Software Support	Optional Resolution Pack		
On-site Engineer	Optional	Optional	Optional
On-site Troubleshooting	Optional Resolution Pack	Optional Resolution Pack	Optional Resolution Pack
On-site spares (Customer-owned)	Optional	Optional	Optional
Enterprise Training Courses (About Dell hardware)	Optional	Optional	Optional

For more information on the available services in your area, please visit www.dell.com/ap/services

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FEATURES	DESCRIPTION
Form factor	1U rack height
Processors	Up to two Intel® Xeon™ processors with Intel Extended Memory 64 Technology up to 3.6GHz
Front side bus	800MHz
Cache	1MB L2
Chipset	Intel E7520
Memory	256MB/12GB DDR2 400 SDRAM; 8GB ; 12GB with availability of single-rank 2GB DIMMS[1]
I/O channels	Two total: two PCI-X® slots (1 x 64-bit/133MHz and 1 x 64-bit/100MHz)
Drive controller	Embedded single channel Ultra320 SCSI
RAID controller	Optional single channel ROMB (PERC4/Di), PERC4/DC, PERC4/SC, and PERC4e/DC[2] adapters
Drive bays	Two 1" Ultra320 hot-plug SCSI drives
Maximum internal storage	SCSI: up to 600GB[2] with availability of 300GB[2] hard drive
Hard drives	36GB[5], 73GB, 146GB and 300GB[2] (10,000 rpm) Ultra320 SCSI 18GB, 36GB, 73GB and 146GB[2] (15,000 rpm) Ultra320 SCSI
Internal storage	10K/15K RPM SCSI drives
External storage	Dell PowerVault™ SCSI and Dell/EMC® fibre channel storage
Tape backup options	Internal: none External: PowerVault 114, 122T, 128T, 132T and 136T
Network interface card	Dual embedded Intel Gigabit NICs; single and dual port Intel PRO/1000 MT Gigabit adapters; Intel PRO/1000 MF (optical)
Power supply	550W, optional hot-plug redundant power
Availability	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
Video	Embedded ATI Radeon 7000-M with 16MB SDRAM
Remote management	Baseboard Management Controller with IPMI 1.5 compliance, accessible via network or serial port; optional slot-free DRAC4/I
Systems management	Dell OpenManage™
Rack support	4-post (Dell rack), 2-post and 3rd party
Operating systems	Microsoft® Windows® 2000 Server, Microsoft Windows 2000 Advanced Server, Windows Server 2003 Standard Edition, Windows Server 2003 Web Edition, Windows Server 2003 Enterprise Edition, Red Hat® Linux® Enterprise v2.1 and Red Hat Linux Enterprise v3, Novell® NetWare® 5.1 and 6.5

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Visit **www.dell.com** for more information.

1 With availability of the single ranked 2GB DIMMs scheduled for Q4 2004.
2 Availability scheduled for Q3 2004.
3 Dell Services programs are subject to the service radius restrictions within the country. On-site service provided by independent third-party service provider and many not be available in certain remote locations. Dell systems, which are not located within the four-hour or two-hour service coverage, will receive the service levels on next business day basis or best effort basis and subject to service capabilities of the nominated Dell Service Provider. Except for 24X7 services, calls will only be accepted up to 5p.m. local time. Technician shall be dispatched if necessary following telephone technical support.
4 On-site service provided by independent third-party service provider and may not be available in certain remote locations. Technician shall be dispatched if necessary following telephone technical support.
5 For hard drives, GB means 1 billion bytes; accessible capacity varies with operating environment.

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