The Dell™ PowerEdge™ 1650 server is designed to deliver exceptional levels of availability, manageability, performance and scalability in a rack-dense, space-saving solution.

Space-Saving Performance
Incorporating new levels of availability and performance in an easy-to-manage, flexible server, the Dell PowerEdge 1650 is an ultra rack-dense, general purpose solution designed to minimize space while helping to provide maximum scalability in a 1U form factor. This exceptional server delivers power and performance outside its class and is ideal for enterprise data customers, Internet and application service providers and high performance computing cluster environments.

The PowerEdge 1650 is the first server on the market to include dual Intel® PRO/1000 XT embedded network connections, each providing 1000MB/s of bandwidth to alleviate bottlenecks and maximize uptime through failover capability. Flexible 10/100/1000 connectivity lets you match the speeds of your current network devices while you prepare your Gigabit infrastructure.

Availability and Power
With the PowerEdge 1650, Dell becomes the first major system provider to incorporate enterprise-class availability features and components in a 1U chassis. This capable solution provides numerous advantages over other servers in its class, including the ability to support hot-plug redundant power supplies (optional) and cooling fans (standard), dual channel embedded RAID functionality with 128MB of RAM and battery backup, dual embedded Gigabit NICs, and up to three hot-plug SCSI hard drives. In addition, the server features remote management functionality, including dead server management, and a chipset that can support high levels of input/output (I/O) throughput.

Flexibility
An expandable, powerful solution, the PowerEdge 1650 is designed with a flexible architecture enabling a multitude of performance-driven tasks. With dual Intel® Pentium® III processors, the PowerEdge 1650 can support Internet applications, high performance computing clusters (HPCC), SANs, mainstream application environments and network infrastructure applications including domain controllers, DNS servers and DHCP servers. The embedded Intel PRO/1000 XT Gigabit LOM (LAN on Motherboard) connection provides 1000MB/s of bandwidth to your network while eliminating the need to purchase a Network Interface Card (NIC) or occupy a PCI slot. The PowerEdge 1650 server’s efficient size and scalable infrastructure positions itself as a high-performance small application server.

Reliability and Expandability
The PowerEdge 1650 is an impressive choice with a high performance tri-peer PCI bus architecture capable of managing demanding Internet applications. The reliable, scalable design takes the PowerEdge 1650 to a new level of readiness for applications requiring high system performance, high I/O throughput and limited internal storage. Feature enhancements incorporated on the PowerEdge 1650 provide the server with improved performance over its predecessor and enterprise class availability. The PowerEdge 1650 provides remote management options that allow for true dead server management, including out-of-band management. Designed to be an expandable solution, the PowerEdge 1650 includes dual channel embedded RAID with battery backed cache for improved hard drive performance and availability without the need to occupy a PCI slot. The space-saving design makes this efficient solution ideal for any organization where space management is a critical issue.

Visit www.dell.com for more information.
**DELL PREMIER ENTERPRISE SERVICES**

Dell offers a broad portfolio of services that help optimize use of Dell technology, rapidly deploy systems, and maximize system uptime. Dell provides expert advice and technical assistance, and a single point of contact, while striving to help achieve a lower total cost of ownership.

**Premier Enterprise Consulting**
- Delivers valuable assistance for IT infrastructure (Microsoft Windows 2000, Exchange, Thin Client, Systems Management), and storage consulting
- Offers consulting programs for planning, implementation, tuning, training, backup and recovery
- Dell Technology Solutions Center provides a secure, comprehensive lab where Dell can assist in analyzing your challenges, testing your systems and determining solutions that will succeed in your unique business environment
- Dell Technology Training offering extensive enterprise training for Dell storage products, storage area networks (SANs), clustering, PowerEdge servers and Dell OpenManage™ systems management software

**Custom Integration**
- High-quality, one-touch custom factory integration services
- Asset data services, hardware and software integration, and replacement parts program

**Installation Services**
- Helps put new technology to work rapidly
- Includes implementation planning, on-site installation of server, storage, and clustering products, mounting Dell products into Dell-supported racks, and a suite of upgrade services

**Standard Support Services**
- Limited warranty¹ and three years of Next Business Day (NBD) parts replacement and one year NBD On-Site² labor service
- Pre-Failure Alert Program³ for Dell hard disk drive and DIMM components
- 30-Day Getting Started program to help customers put new technology to work quickly
- Dell On-Site² labor service for as long as you own your Dell system
- Dell On-Site² labor service for as long as you own your Dell server
- 24/7 toll-free hardware technical phone support for as long as you own your Dell server
- 24/7 on-line support featuring extensive on-line tools at support.dell.com and Resolution Assistant on PowerEdge servers

**Other Optional Support Services**
- Extended NBD service or parts delivery for up to five years
- Same day on-site support services including 4-hour response⁴, 2-hour response and 6-hour repair⁵
- DirectLine™ toll-free telephone support for Microsoft Windows 2000, Windows NT® and Novell® operating systems
- DirectLine Plus toll-free 24/7 telephone support for select Microsoft BackOffice™ applications, Red Hat® Linux® (annual contract required for 24/7 support), and enhanced operating system support

Services vary by region. For more information on the available services in your area, please visit www.dell.com.

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**DELL POWEREDGE 1650 SERVER**

**FEATURES**

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Dell PowerEdge 1650 Server provides exceptional performance and easy, scalable solutions. The server delivers powerful performance and flexibility, and offers various options to meet your specific needs. With features such as Fast Ethernet, gigabit Ethernet, and Broadcom-based Ethernet, the PowerEdge 1650 delivers cost-effective connectivity options. The server supports redundant power supplies and hot-plug components, ensuring high availability and reliability. The PowerEdge 1650 also offers powerful backup and restore options, including support for RAID configurations and backup software. The server is designed to be easy to manage, with support for Dell OpenManage systems management software and other tools to help administrators keep their systems running smoothly. Whether you need a powerful server for a small business or a large enterprise, the Dell PowerEdge 1650 provides the performance and flexibility you need to keep your business running smoothly.

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¹For a complete copy of our guarantees or limited warranties, please visit http://www.dell.com/us/en/services/service_service_contracts.htm or write to Dell USA L.P., One Dell Way, Round Rock, Texas 78682, Attn: Warranties.
²Dell service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. To receive next business day service, Dell must notify the service provider before 5:00 pm (depending on service contract) customer time. Availability varies.
³The Pre-Failure Alert program is available only in the United States on selected Dell PowerEdge servers (1xx0, 2xx0, 4x00, 6xx0, 8450) and select PowerVault products. PowerEdge 380 is not included. Your system must be monitored by Dell-recognized systems management applications in order to participate in the Pre-Failure Alert Program. The Pre-Failure Alert Program covers Dell products utilizing applications that can acquire information from the HIP and systems management applications. Dell must notify the service provider before 5:00 pm (depending on service contract) customer time. Availability varies.
⁴24/7 toll-free telephone support is at no additional charge to help customers with installation optimization and configuration questions during the critical 30-day period after shipment of your PowerEdge. This program is available to customers who purchase Novell NetWare® or Microsoft Windows NT Server or Windows 2000 with their PowerEdge server from Dell. Support provided after the 30-day Getting Started Program will be for only the Dell hardware. Beyond 30 days from the invoice date, Dell’s DirectLine telephone support service is available for purchase for NBD support.
⁵30-day telephone support program is at no additional charge to help customers with installation optimization and configuration questions during the critical 30-day period after shipment of your PowerEdge. This program is available to customers who purchase Novell NetWare® or Microsoft Windows NT Server or Windows 2000 with their PowerEdge server from Dell. Support provided after the 30-day Getting Started Program will be for only the Dell hardware. Beyond 30 days from the invoice date, Dell’s DirectLine telephone support service is available for purchase for NBD support.
⁶Availability may vary.
⁷Available within a 25-mile radius of over 60 metropolitan areas. Customers not located within a 25-mile radius of the stocking locations are not eligible for this offering. Dell will dispatch a service technician within 4 hours of receiving the hardware problem. Service technician may not arrive until the following business day if dispatched after 4:00 pm local time.
⁸Available within a 25-mile radius of over 60 metropolitan areas. Customers located within a 25-mile radius of the stocking locations are not eligible for this offering. Service technician may not arrive until the following business day if dispatched after 4:00 pm local time.
⁹Available within a 25-mile radius of over 60 metropolitan areas. Customers located within a 25-mile radius of the stocking locations are not eligible for this offering. Dell will dispatch a service technician within 4 hours of receiving the hardware problem. Service technician may not arrive until the following business day if dispatched after 4:00 pm local time.

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