Dell PowerEdge 850 Server

The Dell™ PowerEdge™ 850 server delivers affordable performance to power web and infrastructure applications for organizations of any size.

Rack Dense, Flexible Performance

Datacenter growth has spurred the need for space-conscious servers that can deliver support for applications without taking up valuable square footage. The PowerEdge 850 server's processor flexibility and rack-dense chassis mean that you can pack the right amount of power in a small form factor.

Featuring the Intel® Pentium® D processor, the PowerEdge 850 enables you to experience the benefits of dual core technology. This new technology combines two processing cores into a single processor chip for exceptional performance and power efficiency. It is ideal for running multiple applications and multi-threaded tasks common in many of today's software applications.

For environments that do not require as much processing capability, the PowerEdge 850 server supports the Pentium 4 processor with a generous price/performance ratio for incredible value. You can also choose the Celeron® D processor for entry-level environments with simple file and print applications.

Scalability for Further Flexibility and Investment Protection

The PowerEdge 850 server is designed to grow as your needs do and as future technology evolves. The new high-performance PCI Express™ architecture delivers flexibility and investment protection. The PowerEdge 850 has a choice of two risers – one with x4 and x8 PCIe slots, a second with one x8 PCIe slot and one PCI-X® 64/133 slot. Plus, dual embedded Gigabit[1] NICs offer high bandwidth network connectivity, I/O traffic load balancing and fail-over for performance and data availability.

Additionally, the server supports up to 8GB of ECC DDR2-533/667 memory and is able to support 64-bit applications so that you can easily take advantage of advanced technology developments. It also supports up to two cabled SATA or hot-plug SCSI hard drives enabling you to add as much as 600GB[2] of internal storage capacity to meet growing data storage demands.

Easy Manageability and Dell Service Options

Equipped with a complete suite of systems management tools, the PowerEdge 850 server helps you get the most out of your IT resources through easy manageability. Dell Server Assistant allows you to easily setup and configure your PowerEdge system components and hardware. It also helps streamline operating system installation and delivers Dell optimized and tested drivers, diagnostics and utilities. Dell Remote Access Card (DRAC) allows you to access, monitor, troubleshoot, repair and upgrade servers from virtually anywhere, anytime.

If your IT resources are stretched, let Dell Services handle the setup and installation for you. Dell can pre-install and test your operating system. Or let Dell Custom Factory Integration fully configure and test your hardware and software before it arrives at your site. We can even deploy your server in your environment with our Server Installation Service.

Dell PowerEdge 850

Put the PowerEdge 850 server behind your web and infrastructure applications for exceptional performance, scalability and manageability in a rack-dense form factor.

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

Dell PowerEdge 850 Server

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.

Get the most from your new systems. Turn to Dell for the services you need to better plan, implement and maintain your IT infrastructure.

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

FEATURES	Dell™ PowerEdge™ 850 Server
Form factor	1U rack height
Processor(s)	Single Intel® Pentium® D (dual-core) processor (up to 3.2GHz) Single Intel Pentium 4 processor (up to 3.6GHz) Single Intel Celeron® processor (2.53GHz)
Front side bus	800MHz for Pentium D and Pentium 4; 533MHz for Celeron
Cache	Up to two 1MB for Pentium D; up to 2MB for Pentium 4; 256K for Celeron
Chipset	Intel E7230
Memory	256MB/8GB DDR-2 533/667 SDRAM
I/O channels	Four total: two Gigabit[1] embedded NICs plus one of two risers: Riser 1: one PCI-X® slot (64-bit/133MHz); one PCI Express™ slot (1 x 8 lane) Riser 2: two PCI Express slots (1x4 lane and 1x8 lane)
Drive Controller	Two non hot-pluggable 1-inch SATA or SCSI hard drives
RAID controller	Optional CERC SATA channel for SATA hard drives; PERC 4/SC for SCSI hard drives
Drive bays	Up to two non hot-pluggable 1" internal hard drive bays; optional CD (or DVD) drive
Maximum internal storage	Two 1" SATA or U320 SCSI drives; up to 500GB[2] SATA and 600GB[2] SCSI
Hard drives[2]	80GB, 160GB, and 250GB SATA hard drives 73GB, 146GB, and 300GB 10K SCSI drives 36GB and 73GB 15K SCSI drives
Internal storage performance	10K/15K RPM U320 SCSI drives; 7200K RPM SATA drives
External storage	PowerVault™ 22xS
Tape backup options	Internal: none External: Dell PowerVault tape solutions
Network interface card	Dual embedded Gigabit[1] NICs – Broadcom™ Dual 5721J; single and dual port Intel PRO/1000 MT Gigabit adapter (copper); single port, Intel PRO/100S; single and dual port Intel PRO/1000 PT (PCI Express); Broadcom NetXtreme™ Gigabit adapter
Power supply	345W non-redundant
Availability	ECC memory; optional SATA and SCSI RAID solutions; tool-less chassis; DRAC 4/p for accessing the system independent of the OS status
Video	XGI XG20 on motherboard with 16MB memory
Remote management	Standard BMC with IPMI 1.5 support; optional DRAC 4/p for advanced capabilities
Systems management	Dell OpenManage™
Rack support	4 post; 1U rack; tool-less access
Operating systems	Windows® 2000 Server, Standard Edition (service pack 4); Windows 2003 Standard Edition, x64 Edition, Web Edition; Red Hat® Enterprise Linux® ES v3, v4 IA32, v4 for EM64T; Novell® NetWare® v6.5 Pack 3; SUSE® Linux ES9, EM64T

[1] 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.
[2] For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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