

# Dell™ PowerEdge™ 850 Server



**The Dell™ PowerEdge™ 850 server delivers affordable performance to power web and infrastructure applications for organisations 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<sup>1</sup> 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<sup>2</sup> 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 optimised 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.





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## 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 customising 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 <sup>1</sup>	Next Business Day <sup>2</sup>
Ideal for	Production Environment	Development Environment	Testing for File/Print Environment
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) assistance	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](http://www.Dell.com/ap/services)

### Penang, Malaysia

Dell Asia Pacific Sdn. - Asia Pacific Customer Center  
Plot P27 Bayan Lepas Industrial Zone Phase IV, 11900 Bayan Lepas  
Penang, Malaysia

### Australia

Dell Australia Pty. Ltd.  
Unit 3, 14 Aquatic Drive  
Frenchs Forest, NSW 2086  
Australia

### Hong Kong

Dell Hong Kong Ltd.  
1001 Stanhope House  
734 - 738 King's Road  
Quarry Bay, Hong Kong

### India

Dell India Private Limited  
Divyashree Greens, Ground Floor  
S. No. 12/1, 12/2A, 13/1A (Ground Floor)  
Varthur-Hobli  
Bangalore 560071, India

### Malaysia

Dell Asia Pacific Sdn.  
Unit 5.01, PJ Tower, Amcorp Trade Centre  
18 Jalan Persiaran Barat, off Jalan Timur  
46250 Petaling Jaya  
Selangor, Malaysia

### New Zealand

Dell New Zealand Limited  
Unit 1A, Pacific Office Park  
4, Pacific Rise, Mount Wellington  
Auckland, New Zealand

### Singapore

Dell Asia Pte. Ltd.  
Co. Reg. No. 198905101W  
180 Clemenceau Avenue #06-01  
Haw Par Centre, Singapore 239922

### Taiwan

Dell B.V. Taiwan Branch  
20F, No. 218, Sec. 2, Tung Hwa S. Road  
Taipei, Taiwan, R.O.C.

### Thailand

Dell Corporation (Thailand) Co. Ltd.  
24th Floor Unit 2407, Empire Tower III  
195 South Sathorn Road,  
Yannawa Sathorn  
Bangkok 10120 Thailand

<b>Form factor</b>	<b>1U rack height</b>
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 <sup>1</sup> 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 and PERC 4e/DC 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 SATA and 600GB <sup>1</sup> SCSI
Hard drives <sup>1</sup>	80GB, 160GB, and 250GB <sup>1</sup> SATA hard drives 73GB, 146GB, and 300GB <sup>1</sup> 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 <sup>1</sup> 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™ Server 2000 Standard; Windows Server 2003 Standard and Web Edition; Red Hat® Enterprise Linux® v3, v4, EM64T v4; NetWare® Standard and Web Edition v6.5; SUSE ES9 EM64T

- 1 This term does not connote an actual operating speed of 1 Gb/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.
- 3 Technician, replacement part or unit (depending on service contract) will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions (on site and/or next business day service not available in some locations) and terms of service contract. Service timing dependent upon time of day call placed to Dell. Defective unit must be returned or paid for. Replacements may be refurbished.

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