

DELL POWEREDGE 1950, 2950 AND 2900 SERVERS



Dell™ PowerEdge™ servers help drive down the cost of management through commonality

- **Leading performance in key industry benchmarks prove PowerEdge helps maximize productivity¹**
- **Common BIOS and drivers help hold down the long-term cost of management**
- **Common systems management interface and tools help boost productivity**
- **Three servers and one image equal lower maintenance**

Unprecedented Commonality to Minimize the Cost of Change Management

The overwhelming amount of time spent managing servers is not spent managing the hardware, but instead is spent in change management — managing the software updates like BIOS and drivers. Dell utilizes a common system design and software image for the three leading PowerEdge servers, making the updating of software components a far simpler task, helping lower the cost of change management, which can lead to lower total cost of ownership.

Leading Performance for Enterprise Applications

Today's applications are requiring more performance than ever before. Dell PowerEdge servers are designed to deliver the highest performance for critical enterprise applications like database, messaging, web services and infrastructure applications.

For databases like Microsoft® SQL Server® or Oracle® Database 10g, Dell's leadership is demonstrated through PowerEdge servers holding the top five price/performance spots in the TPC-C benchmark¹, with the PowerEdge 2900 holding the number one spot. For messaging applications like Microsoft Exchange, the PowerEdge 2950 is number three in dual processor rack optimized server performance in the MMB3 benchmark².

Perfectly suited for the "Scale Out Architecture"

As proprietary systems are increasingly replaced by industry-standard systems, applications like databases, high performance compute clusters and messaging systems can take advantage of the performance and scalability of the PowerEdge dual processor servers. Combined with Dell/EMC™ fibre channel storage systems, customers can easily deploy these PowerEdge servers as building blocks of a scalable enterprise, consolidating and virtualizing both the computing resources as well as the storage resources.

Common Industry-standard Management

The typical data center has a confusing array of management tools that attempt to reign in IT resources. Dell delivers clear, consistent systems management designed to lower long-term systems management costs. The integration of industry-standard management tools into the 9th generation of PowerEdge servers delivers a consistent, management interface helping increase the productivity of administrators. The integrated IPMI-compliant management controller allows these servers to be easily managed with any IPMI-compliant application, or the Dell OpenManage™ tools. For remote console needs, the optional Dell Remote Assistant Card is designed to deliver continuous video console, integration with Microsoft Active Directory® as well as virtual media capabilities for complete control, regardless of server state.

Storage, Services and Alliances to Round Out the Solution

In addition to the performance and manageability of these servers, Dell helps simplify application deployment in a critical environment through high-performance storage, alliances with key application vendors and outstanding services. Dell/EMC storage delivers highly available, integrated storage solutions for PowerEdge servers. Alliances with partners like Microsoft, Oracle, VMware®, SAP®, Altiris® and others help deliver a robust and well supported application platform. And Dell Professional Services can enhance server and storage platforms with planning and deployment services designed to help get the most from an investment in Dell enterprise products.



Dell PowerEdge 1950, 2950, 2900



DELL ENTERPRISE SERVICES

In an era when many technology companies are trying to be all things to all people, we are truly passionate and focused on enabling high-performance IT infrastructures for our customers. The planning, implementation and maintenance of your IT infrastructure deserves nothing less. Variability in execution can compromise user productivity, IT resources, and ultimately, your reputation. By leveraging our heritage of process driven excellence, Dell Services can deliver a smarter way.

We don't claim to do everything. We focus on IT infrastructure services. And we take a customer led approach, grounded in the philosophy that you know your business better than anyone. That's why Dell does not try to take key business decisions out of your hands, or lock you in to more than you need. Instead, we apply our world-class process management and "no excuses" culture to deliver what customers today most need -- flexibility and repeatable quality. That's pure execution. That's Pure Dell.

Professional Services

Dell provides a customer-focused approach to designing and implementing Industry-Standard Infrastructures to enhance performance, scalability and efficiency while helping to minimize expenses and disruption to your business. You get strategies and solutions that optimize technologies, enhance productivity, reduce business risk, and maximize return on investment.

Deployment Services

System deployment is a necessary evil that plagues nearly every IT manager. Dell's Deployment Services are designed to simplify and speed up the deployment and utilization of new systems. Dell provides scalable processes and technology that can get your Dell systems up and running quickly. As a result, you don't need to divert your sophisticated IT resources away from mission critical activities. You get a single point of contact with real time measurement, seamless delivery and end-to-end deployment management. Our comprehensive suite of services include: asset discovery, application packaging, image development, custom integration, custom delivery, and installation and disposal. Simply put, Dell knows deployment.

Training Services

Arm your employees with the knowledge and skills they need to be as productive as possible. Dell offers comprehensive training services which include hardware and software training, as well as PC skills and professional development classes. Our flexible approach allows you to tailor classes to the needs and busy schedules of your employees with instructor led classrooms or virtual courses, and even self-directed on-line options. Dell training can help improve system reliability, maximize productivity, and reduce end user requests and downtime.

Enterprise Support Services

Today's business-critical IT environments demand maximum uptime. Dell offers "best-of-breed" Enterprise Support Services at varying levels to help you strike just the right balance between maximum uptime and its associated cost. These state-of-the-art services ensure your IT systems consistently achieve their performance potential. Our specialist support teams work with you to eliminate problems before they happen, prepare in advance for any elevated IT demands, and provide our fastest and most complete approach to problem resolution. Our innovative service technologies and processes can enable a new level of performance management and continuous improvement. When your business requires nothing less than the very best support, Dell's Enterprise Support Services are the answer.

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

FEATURES	Dell™ PowerEdge™1950	Dell PowerEdge 2950	Dell PowerEdge 2900
Server type	1U rack-dense server	2U rack server with configuration flexibility	Performance tower or 5U rack
Key applications	Edge-of-network; Network infrastructure; SAN front end; Thin client-server; high performance compute cluster; web applications/serving	Database front end; email/messaging; virtualization; network infrastructure; server consolidation	Database; departmental applications; email/messaging; server consolidation; Java applications
Processor	Up to 2 Dual-Core 64-bit Intel® Xeon® processors with shared 4MB L2 cache at up to 3.0GHz		
Memory	Up to 32GB ECC fully buffered DIMM memory	Up to 32GB ECC fully buffered DIMM memory	Up to 48GB ECC fully buffered DIMM memory
I/O slots	2 PCI Express slots or 2 PCI-X slot	3 PCI Express slots or 2 PCI-X slots and 1 PCI Express slot	4 PCI Express slots and 2 PCI-X slots
Network controller	Dual embedded Broadcom Intel Gigabit NICs ³		
Drive controller	PERC 5/i RAID or SAS 5/i		
Hard drives	2 configurations; up to 1TB ⁴ total capacity	3 configurations; up to 18TB ⁴ total capacity	10 hot-plug drive bays; up to 3TB ⁴ total capacity
RAID controllers	PERC 5/i; optional PERC 5/E; optional PERC 4e/DC		
Redundancy	Hot-plug power; hot-plug hard drives; RAID; redundant fans; ECC/SDDC memory; spare row memory; redundant NICs; LCD panel		
Management Tools	Standard Dell OpenManage™ management tools; standard integrated IPMI 2.0 baseboard management controller; optional Dell Remote Assistant Controller (DRAC5)		
System image	Common BIOS and drivers		
Common upgrades	Memory kits; hot-plug hard drives; management cards; NICs; RAID controllers		

¹ Source: TPC-C by Price/Performance Version 5 Results as of 9/11/2006. See http://www.tpc.org/tpcc/results/tpcc_price_perf_results.asp

² Source: Microsoft MMB3 Benchmark Results for dual processor systems as of 9/11/2006.

See <http://www.microsoft.com/exchange/evaluation/performance/default.asp>

³ 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.

⁴ For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less, one TB = one trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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