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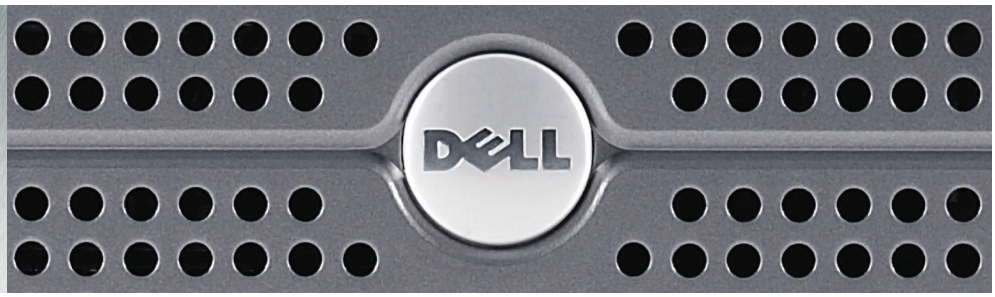
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DELL POWEREDGE 2950 SERVER



In a rack-optimized 2U form factor, the Dell™ PowerEdge™ 2950 server delivers an excellent balance of outstanding performance, availability and flexibility for growing network infrastructure applications as well as web, messaging, database and file/print consolidation.

Dell's Innovative 9th Generation PowerEdge Servers

Through innovative hardware design, software commonality and continued focus on fewer system updates, Dell's 9th generation PowerEdge servers help reduce the complexity involved in managing data, whether you are a large enterprise or a small business. These servers are designed to a Dell™-developed Behavioral Specification that defines consistent hardware layout and user interaction across all server models in this and future PowerEdge generations. Plus, a shared master system image with 1950 and 2900 enables updates to BIOS, system drivers, firmware, operating systems and applications from one easy-to-copy template for simplified software management. Featuring the latest Intel® Xeon® processors, the 9th generation PowerEdge servers offer the power and performance you expect from Dell.

Dell PowerEdge 2950 Packs Flexibility and Storage Capacity in 2U Format

The Dell PowerEdge 2950 Server offers configuration flexibility in a 2U chassis for organizations that require space-conscious internal storage capacity rather than an external storage system. Six internal hard drive bays provide up to 4.5TB[1] of internal storage helping to conserve valuable data center space while supplying enough storage space to accommodate growing applications.

Designed to help organizations keep up with changing requirements, the server includes several embedded functions, like dual Gigabit NIC's and integrated SAS storage controller, which allows three available PCI Express™ slots. These enable flexible expansion to support a wide variety of data center workloads.

High Performance and Availability to Maximize Uptime

The Dell PowerEdge 2950 server supports up to two of the latest Quad-Core Intel Xeon processors and the Intel 5000X chipset. These latest processors provide increased performance and performance/watt[2]. With the new capability to support eight 2.5" SAS drives, the 2950 also provides enough room to stripe data onto multiple drives for high performance in demanding environments.

Additionally, exceptional memory throughput and capacity is achieved with as much as 32GB of fully-buffered DIMM memory. The server includes PCI Express technology for excellent I/O throughput, and TCP/IP Offload Engine (TOE) which offloads the TCP/IP processing to a dedicated processor on the embedded NIC's for CPU performance gains. And with features like hot plug power supplies/fans, RAID configurations with battery backed cache, and an internal tape drive option for local data backup, the Dell PowerEdge 2950 helps ensure your data is protected and accessible.

Manageability for Reduced Complexity

The Dell PowerEdge 2950 server is equipped with a Baseboard Management Controller (BMC) that includes a complete set of tools that monitors server hardware, alerts you when server faults occur and enables basic remote operations. For environments with servers located in secure data centers or in sites with no IT staff, Dell offers an optional feature for PowerEdge servers, the Dell Remote Access Controller (DRAC). Operated through a Web-based graphic user interface, DRAC can enable remote access, monitoring, troubleshooting, repair and upgrades independent of the operating system status. Common software with the same family of PowerEdge 9th generation servers further helps simplify management. Plus, the Dell Behavioral Specification means one familiar platform for less complex deployment, management and serviceability as well as lower Total Cost of Ownership (TCO) over multiple generations of PowerEdge servers.



Dell PowerEdge 2950

DELL POWEREDGE 2950 SERVER

DELL IT INFRASTRUCTURE SERVICES

Dell brings pure execution to IT Services. 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 into 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 absolute execution. That's Dell.

Assessment, Design and Implementation Services

IT departments are continually challenged to evaluate and implement new technologies. Dell's assessment, design and implementation services can restructure your IT environment to enhance performance, scalability and efficiency while helping to maximize your return on investment and minimize disruption to your business.

Deployment Services

System deployment is a necessary evil that plagues nearly every organization. You must deploy new systems to help improve performance and meet user demand. With Dell's deployment services, we help simplify and speed up the deployment and utilization of new systems to maximize uptime throughout your IT environment.

Asset Recovery and Recycling Services

Proper disposal, reselling and donation of computer equipment is a time-consuming task that typically falls to the bottom of many IT to-do lists. Dell simplifies the end of life processes for IT equipment in a way that can maximize value for customers.

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. With Dell training you can help improve system reliability, maximize productivity and reduce end user requests and downtime.

Enterprise Support Services

With Dell, you can get maximum performance and availability of your Dell server and storage systems. Our Enterprise Support services offer proactive maintenance to help prevent problems as well as rapid response and resolution of problems when they do occur. We have built a robust global infrastructure that offers multiple levels of enterprise support for systems throughout your infrastructure.

To help you get the most from your Dell systems, visit www.dell.com/services.

Services vary by region.

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FEATURES	DELL™ POWEREDGE™ 2950 SERVER
Form factor	2U rack height
Processors	Up to two Quad-Core Intel Xeon 5300 sequence processors at up to 3.0GHz; Up to two Quad-Core Intel Low Volt Xeon 5300 sequence processors at up to 2.0 GHz; Up to two Dual-Core Intel Xeon 5100 sequence processors at up to 3.0GHz; Up to two Dual-Core Intel Low Volt Xeon 5100 sequence processors at 2.33GHz; or Up to two Dual-Core Intel Xeon 5000 sequence processors at up to 3.0GHz
Front side bus	Intel Xeon 5300 Sequence: Dual Independent 1066MHz or 1333MHz; Intel Xeon 5100 Sequence: Dual Independent 1066MHz or 1333MHz; Intel Xeon 5000 Sequence: Dual Independent 667MHz
Cache	Intel Xeon 5300 Sequence: 2x4MB; Intel Xeon 5100 Sequence: 4MB; Intel Xeon 5000 Sequence: 2x2MB
Chipset	Intel 5000X
Memory	Up to 32GB (8 FBD DIMM slots): 256MB/512MB/1GB/2GB/4GB Fully Buffered DIMMs (FBD) in matched pairs, 533MHz or 667MHz
I/O slots	Three PCI slots, either PCIe riser with three PCI Express slots (one x4 (x8 connector) and two x8) or two PCI-X 64-bit/133MHz and one PCI Express x8 slot
Drive controller	4 port SAS 5/i integrated SAS controller (no RAID)
RAID controller	Optional PERC 5/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC 4e/DC, PERC 5/e adapter
Drive bays	3 hard drive base options: 8 x 2.5" Hard Drive Option: 2.5" HD Option: up to 8 SAS HDs (10K); 4 x 3.5" Hard Drive Option: 3.5" HD Option: up to 4 SAS (10K/15K) or SATA (7.2K) drives; 6 x 3.5" Hard Drive Option: 3.5" HD Option: up to 6 SAS (10K/15K) or SATA (7.2K) drives; Peripheral bay options; Floppy Drive, DAT72 Tape Drive (not available with 6 x3.5" hard drive base); Slim optical drive bay with choice of CD-ROM, DVD-ROM or Combo CD-RW/DVD-ROM
Maximum internal storage	Up to 4.5TB: six 750GB hot-plug SATA (7.2 K RPM)
Hard drives[1]	2.5" SAS (10K RPM): 36GB, 73GB; or 3.5" SAS (10K RPM): 73GB, 146GB, 300GB, or 400GB; or 3.5" SAS (15K RPM): 36GB, 73GB, 146GB; or 3.5" SATA (7.2K RPM): 80GB, 160GB, 250GB, 500GB, 750GB SATAu
External storage	SAS, SCSI and fibre channel storage systems
Tape backup options	Internal: PV100T (DAT 72) with multibay External: PowerVault DAT 72, 110T, 114T, 122T, 124T, 132T, 136T, 160T and ML6000
Network interface card	Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit[2] Ethernet NIC with fail-over and load balancing. TOE (TCPIP Offload Engine) supported on Microsoft Windows Server 2003, SP1 or higher with Scalable Networking Pack
Power supply	AC configuration with standard single or redundant 750W hot-plug auto-switching universal 110/220V AC power supplies DC configuration with single or redundant hot plug -48 to -60 V20 A DC power supplies
Availability	ECC FBD memory, SDDC, Spare Bank; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC5/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SCSI cluster support; validated for Dell/EMC SAN
Video	Embedded ATI ES1000 with 16MB memory
Remote management	Standard Baseboard Management Controller with IMPI 2.0 support; optional DRAC5 for advanced capabilities
Systems management	Dell OpenManage™
Rack support	4-post (Dell rack), 2-post and 3rd party Versa rails, sliding rails and Cable Management Arm
Operating systems	Microsoft® Windows Server 2003 R2, Standard, Enterprise and Web Edition, x64, Standard and Enterprise Edition; Microsoft® Windows® Storage Server 2003 R2, Workgroup, Standard, Enterprise Edition; Red Hat® Linux® Enterprise v4, ES and ES EM64T; SUSE Linux Enterprise Server 9 EM64T

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

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