DELL POWEREDGE 2900 SERVER

Designed with next generation performance features, large memory capacity and exceptional expandability, the Dell™ PowerEdge™ 2900 server is ideal for messaging/collaboration applications, database and file/print consolidation in both a datacenter and remote/branch offices.

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 2950 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 2900 Delivers Enterprise-Level Performance

The Dell PowerEdge 2900 server is designed to deliver exceptional performance in a tower chassis or a 5U rackable option with next generation Quad-Core Intel Xeon processors, Fully Buffered Dimm memory technology and Serial Attached SCSI hard drives. It also supports twelve memory slots for 48GB of memory capacity for memory-intense workloads and applications. And the TCP/IP Offload Engine functionality in the embedded Gigabit NIC's helps further to improve cpu performance and utilization by moving the TCP/IP protocol processing to the NIC.

Flexibility and Expandibility for Growing Environments

The Dell PowerEdge 2900 server is built with flexibility in mind. It offers the widest variety of configuration options available in a Dell two-socket server. You can choose from tower or rack chassis options with hot plug SAS or SATA hard drives and several optical devices and tape products for up to 3.0TB of internal storage. What's more, the system features six I/O slots. And because Dell Remote Access Card (DRAC) and PERC 5/i integrated controller utilize dedicated daughtercard slots, all six I/O slots are available for expandability. You have the option of adding up to four dual embedded Gigabit Network Interface Cards (NICs) and two dual channel storage interface devices providing incredible growth potential.

Dell PowerEdge 2900

Dependable Availability to Maximize Uptime

With high availability features such as hot plug hard drives and redundant power supplies/fans, the Dell PowerEdge 2900 helps keep data dependably moving through your organization. It also provides support for multiple RAID options including integrated RAID with 256MB of battery-backed cache so you know that your valuable information is reliably accessible.

Manageability for Reduced Complexity

The Dell PowerEdge 2900 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 2900 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.

www.dell.com

FEATURES	DELL™ POWEREDGE™ 2900 SERVER
Form factor	Tower or 5U rack-mount
Processors	Up to two Quad-Core Intel Xeon 5300 sequence processors at up to 2.66GHz; Up to two Dual-Core Intel Xeon 5100 sequence processors at up to 3.0GHz; 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 48GB (12 FBD DIMM slots): 256MB/512MB/1GB/2GB/4GB Fully Buffered DIMMs (FBD) in matched pairs, 533MHz or 667MHz
I/O Slots	Six total: four PCI Express slots (3 x 4 lane and 1 x 8 lane); two PCI-X slots (64-bit/133MHz)
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	Standard internal hard drive bays support up to eight 3.5" SAS or SATA hot plug hard drives; Flexbay support for up to two 3.5" hot-plug drives or full height tape device; Peripheral bay support for two half-height devices (tape drive plus one optional CD-ROM, optional DVD-ROM or Combo CD-RW/DVD-ROM); optional 3.5" floppy drive bay
Maximum internal storage	Up to 7.5TB: ten 750GB SATA (7.2K RPM)
Hard drives[1]	3.5" SAS (10K RPM): 73GB, 146GB, 300GB; 3.5" SAS (15K RPM): 36GB, 73GB,146GB; 3.5" SATA (7.2K RPM): 80GB, 160GB, 250GB, 500GB SATAu
External storage	Dell PowerVault™ 22xS SCSI, PowerVault MD1000, Dell/EMC products
Tape backup options	Internal: PowerVault 100T and 110T External: PowerVault 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
Modem	Optional Conexant V.92 internal modem
Power supply	930W, optional hot-plug redundant power
Availability	ECC FBD memory, Dual embedded Broadcom NetXtreme II™ 5708 Gigabit[2] Ethernet NIC with fail-over and load balancing; SDDC, Spare Bank, hot-plug SAS/SATA hard drives; hot-plug, optional redundant power; redundant cooling; tool-less chassis; optional PERC5/i integrated daughtercard with battery-backed cache; Active ID; LCD panel; fibre channel, 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	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 Edition, x64, Standard and Enterprise Edition; Microsoft® Windows® Server 2003 Small Business Standard, Premium Edition; Microsoft® Windows® Storage Server 2003 R2, Standard, Enterprise Edition; Red Hat® Linux® Enterprise v4, 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 1GB/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.