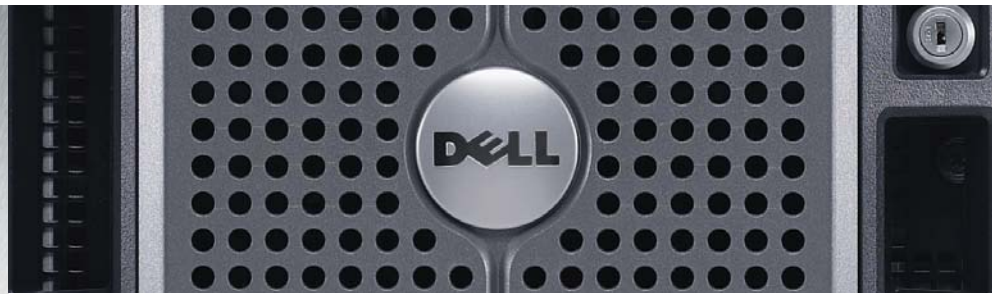


## DELL POWEREDGE 2900 SERVER



**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 with 1950 and 2950 image 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 5U tower chassis or a rackable option with next generation dual 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-intensive 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 Expandability 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<sup>1</sup> 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.

### **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





# 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 pure execution. That's Pure 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](http://www.dell.com/services).

Services vary by region.

## FEATURES DELL™ POWEREDGE™ 2900 SERVER

<b>Form factor</b>	Tower or 5U rack-mount
<b>Processors</b>	Up to two Dual-Core Intel® Xeon® 5000 sequence processors with up to 3.73GHz clock frequency
<b>Front side bus</b>	5000: 667MHz or 1066MHz
<b>Cache</b>	5000: 2x2MB L2 cache
<b>Chipset</b>	Intel 5000X
<b>Memory</b>	256MB/512MB/1GB/2GB/4GB Fully Buffered DIMMs (FBD) in matched pairs; 533MHz or 667MHz; 12 FBD DIMM sockets for support up to 48GB
<b>I/O channels</b>	Six total: Two x133MHz PCI-X® slots on a single PCI bus; one x8 PCI Express® slot; three x4 PCI Express slots; 2x embedded Gigabit NICs; management port for DRAC5
<b>Integrated controllers</b>	PERC 5/i (optional): SAS 3.0Gb/s RAID controller with Intel IOP333 processor and 256MB cache; SAS 5/i (base): 4 port SAS controller with ARM966 processor (does not support RAID)
<b>Add-in RAID controller</b>	Optional PERC 4e/DC (dual-channel PCI Express RAID controller); Optional PERC 5/E adapter for external RAID storage
<b>Drive bays</b>	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
<b>Maximum internal storage</b>	Up to 3.0TB <sup>2</sup>
<b>Hard drives<sup>2</sup></b>	3.5" SAS (10K rpm) 73GB, 146GB or 300GB hot-plug hard drives; 3.5" SAS (15K rpm) 36GB, 73GB or 146GB hot-plug hard drives; 3.5" SATA (7.2K rpm) 80GB, 160GB or 250GB hot-plug hard drives
<b>Internal storage</b>	10 x 3.5" hot-plug SAS drives (10K and 15K) or 10 x 7.2K SATA drives
<b>External storage</b>	Dell PowerVault™ 22xS SCSI, PowerVault MD1000, Dell/EMC products
<b>Tape backup options</b>	Internal: PowerVault 100T and 110T External: PowerVault 114T, 122T, 124T, 132T, 136T, 160T and ML6000
<b>Network interface card</b>	Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NIC with fail-over and load balancing. TOE (TCP/IP Offload Engine) supported on Microsoft Windows Server 2003, SP1 or higher with Scalable Networking Pack. Optional add-in NICs: Intel® PRO/1000 PT Dual Port Server Adapter, Gigabit, Copper, PCI-E x4; Intel® PRO/1000 PT Single Port Server Adapter, Gigabit, Copper, PCI-E x1; Intel® PRO/1000 PF Single Port Server Adapter, Gigabit, Optical, PCI-E x4; Broadcom® NetXtreme™ 5721 Single Port Gigabit Ethernet NIC, Copper, PCI-E x1; Broadcom® NetXtreme II™ 5708 Single Port Gigabit Ethernet NIC w/TOE, Copper, PCI-E x4
<b>Modem</b>	Optional Conexant V.92 internal modem
<b>Power supply</b>	930W, optional hot-plug redundant power
<b>Availability</b>	Hot-plug hard drives; optional hot-plug redundant power; redundant cooling; ECC memory; Spare Row; Single Device Data Correction (SDDC); PERC 5/i integrated daughtercard w/ battery-backed cache; high availability failover cluster support; DRAC5; tool-less chassis; cluster support
<b>Video</b>	Embedded ATI ES1000 with 16MB memory
<b>Remote management</b>	Standard Baseboard Management Controller with IMPI 2.0 support; optional DRAC5 for advanced capabilities
<b>Systems management</b>	OpenManage™
<b>Rack support</b>	4-post (Dell rack), 2-post and 3rd party Versa rails, sliding rails and Cable Management Arm
<b>Operating systems</b>	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, SP3

<sup>1</sup> SATA hard drive support in Q3CY06.

<sup>2</sup> For hard drives, GB means 1 billion bytes, actual capacity varies with preloaded material and operating environment and will be less.

<sup>3</sup> 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.

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