

# DELL™ POWEREDGE™ 2900 III SERVER



The Intel-based, 2-socket tower or 5U Dell PowerEdge 2900 III server delivers an excellent combination of performance, availability and expandability for organizations of all types.

#### **SELECT THIS SERVER IF YOU NEED EXPANDABILITY**

Whether you are looking for a rack server with lots of room or a tower departmental server with high availability, the general purpose PowerEdge 2900 III can meet your needs. With this server, Dell has held seven of the top 10 positions in industry-standard TPC-C price/performance benchmark tests for 32 of the last 34 months since December 2004!

With its large number of hard drive and DIMM slots, this versatile platform is able to accommodate highly demanding workloads and application requirements. In response to customer requests, Dell has updated this server with a host of features that help customers to optimize energy use, improve security, and boost performance.

The server can be used for a wide variety of purposes. With its expandability, it works excellently as a messaging, database, or virtualization server. It also does well as a video streaming, network infrastructure, or application server.

#### **CHOOSE SERVICES, SOLUTIONS, AND SPECIFICATIONS**

To customize your server today, talk to your account manager or visit [dell.com](http://dell.com). For example, filling the 12 DIMM slots allows you to put up to 48GB of RAM in the server (double that when 8GB DIMMs are made available), enough for most any application. Putting 10 hard drives in it provides up to 7.5TB of internal storage (10TB when 1TB drives are made available), giving you the ability to store a truly massive amount of data. Then, choose from the industry's widest variety of complementary hardware and software.

If you need help with server set-up or data center analysis, the Dell services team stands ready to help. Regardless, you can trust that each server will be fully assembled and tested before we ship it directly to you.

#### **RELY ON DELL FOR THE LATEST PROVEN TECHNOLOGIES**

As reliance on computerized information has grown, so have threats related to its security. The latest PowerEdge servers are Dell's most secure servers yet. To protect the confidentiality, integrity and availability of data, Dell has included a variety of features, such as a Trusted Platform Module (TPM), more features within the lockable chassis, and new RAID controller cards that protect against the failure of two drives.

We offer the latest proven technology, such as a pair of quad-core Intel® Xeon® processors and a variety of network interface options. Together, these components are designed to dramatically boost performance.

Dell knows that the management of technology often costs more than the technology itself. So we've worked to include many features to simplify the task. Whether you want to work locally using USB flash drives or DVDs, or remotely via Wake-on-LAN or iSCSI boot, these servers offer greatly improved flexibility. Finally, the PowerEdge Behavioral Specification simplifies management by enforcing consistency in user interaction and hardware layout.



## DELL IT INFRASTRUCTURE SERVICES

Dell brings absolute 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 utilizing 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 can simplify 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 III SERVER
<b>Form Factor</b>	Tower or 5U rack
<b>Processors</b>	Up to two quad-core or dual-core Intel® Xeon® 5400, 5300, 5200, or 5100 series standard or low-volt processors at up to 3.16GHz
<b>Front Side Bus or HyperTransport</b>	1066 MHz or 1333 MHz Front Side Bus (FSB) (depending on the processor chosen)
<b>Cache</b>	Intel® Xeon® 5400: 2x6MB; Xeon® 5300: 2x4MB; Xeon® 5200: 6M; Xeon® 5100: 4MB
<b>Chipset</b>	Intel® 5000X
<b>Memory</b>	Up to 48GB (12 FBD DIMM slots): 512MB/1GB/2GB/4GBGB 667MHz Fully Buffered DIMMs (FBD) in matched pairs
<b>Hard Drives<sup>2</sup></b>	3.5" SAS (10k rpm): 300GB, 400GB <sup>2</sup> or 3.5" SAS (15k rpm): 73GB, 146GB, 450GB or 3.5" SATA (7.2k rpm): 160GB, 250GB, 500GB, 750GB Mixed SAS/SATA supported in matched pairs.
<b>Maximum Internal Storage</b>	Up to 7.3TB via ten 3.5" 750GB hot-plug SATA hard drives
<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 DVDROM or Combo CD-RW/DVD-ROM); optional 3.5" floppy drive bay
<b>I/O Slots</b>	Six total: four PCI Express slots (3 x 4 lane and 1 x 8 lane); two PCI-X slots (64-bit/133MHz)
<b>RAID Controller</b>	Optional PERC integrated SAS/SATA daughtercard controller or adapter
<b>External Storage</b>	Dell, Disk Storage Arrays, Dell Tape Automation, Tape Drives and Removable Disk Dell NAS Systems and Dell SANs
<b>Internal/External Tape Backup Options</b>	Internal: PowerVault™ 100T and 110T External: PowerVault™ 114T, 122T, 124T, 132T, 136T, 160T and ML6000
<b>Network Interfaces</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. Supports many optional single-, dual-, or quad-port 10baseT, copper, or optical add-in NICs
<b>Power Supply</b>	930W, optional hot-plug redundant power
<b>Availability</b>	ECC FBD memory, dual-embedded Broadcom NetXtreme II™ 5708 Gigabit <sup>2</sup> 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 PERC6/i integrated daughtercard with battery-backed cache; Active ID; LCD panel; fibre channel, SCSI cluster support; validated for Dell/EMC SAN
<b>Video</b>	Embedded ATI ES1000 with 16MB memory
<b>Remote Management</b>	Baseboard Management Controller with IMPI 2.0 support; optional DRAC5 (advanced capabilities)
<b>Systems Management</b>	Dell™ OpenManage™
<b>Rack Support</b>	Supports 4-post (Dell rack), 2-post and third-party Versa rails, sliding rails and cable management arm
<b>Operating Systems</b>	Microsoft® Windows® Server Microsoft® Windows® Storage Server Red Hat® Linux® Enterprise Novell® Netware® Novell® SUSE Linux VMware Virtual Infrastructure

<sup>1</sup> Source: TPC-C by Price/Performance Version 5 Results as of October 19, 2007. See [www.tpc.org](http://www.tpc.org) for current results.

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

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