Dell PowerEdge R300

The Dell™ PowerEdge™ R300 is a dependable space-saving server that provides exceptional reliability, availability, and performance with single-socket Intel processors, more memory and internal storage.

The Dell PowerEdge R300 is a single-socket, rack-dense server which provides exceptional reliability, availability and performance. The PowerEdge R300 is designed to provide maximum energy efficiency and leading performance per watt.

Exceptional Performance & Leading Energy Efficiency

The PowerEdge R300 features an advanced one-socket chipset and processors specifically designed for excellent performance and availability. With Intel® quad-core processing and up to 24 GB of memory—three times the capacity of competitive 1-socket x86 servers—the R300 provides stable performance for memory-intensive applications.

Energy efficiency is a fundamental design criterion for all PowerEdge servers. With the introduction of the PowerEdge R300, Dell is bringing this feature to the entry-level rack server market. The low-voltage processor offered on PowerEdge R300 is designed to provide additional gains in both power efficiency and performance per watt.

Trusted Reliability & Security

With high-availability features like hot-plug hard drives and redundant power supplies, the PowerEdge R300 helps prevent the loss of data and productivity. And with authentication through an array of diagnostic tests prior to shipping, it's designed to increase uptime and boost productivity from the moment you switch it on.

Recognizing the importance of information security, the PowerEdge R300 is designed to help ensure the confidentiality, integrity and availability of data. Standard features include a locked-down internal USB port, chassis intrusion switch, locking bezels and a built-in Trusted Platform Module (TPM)[1] which enables system authentication, assists with encryption and helps prevent tampering.

Built-in Scalability

Other key features include two PCI Express slots and dual embedded Gigabit NICs, two non 3.5-inch SATA or SAS hard drives (option for hot-plug or non-plug), optional redundant power supply, optional remote management,

and optional RAID, which make it ideal for handling a variety of business tasks. These include web hosting, video streaming, file/print server for SMB (Small and Medium Business) where office space is limited or as a compute node in a HPCC (High Performance Computing Cluster) application.

The Dell Difference

Dell PowerEdge servers are part of our commitment to the simplification of IT. The R300 can help reduce cost and complexity in your IT environment, freeing you to devote more resources to making innovation a daily practice. Spend less time on maintenance and more on growing your business.

Dell Services

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest TCO.

[1] TPM available worldwide except for China where Trusted Computing Module (TCM) is the standard.

Designed for exceptional energy efficiency in a compact chassis, the PowerEdge R300 is ideal for small to medium business and remote offices.

Feature	Technical Specification
Form Factor	1U rack
Processors	Quad-Core Intel® Xeon® Processor 5000 series Dual and Quad-Core Intel® Xeon® Processor 3000 series Intel® Core 2 Duo® processor Intel® Celeron® processor
Processor Sockets	1
Front Side Bus or HyperTransport	Up to 1333 MHz
Cache	Up to 6MB
Chipset	Intel® 3400 Chipset
Memory[1]	Six ECC DDR-2 667 SDRAM DIMM sockets for up to 24GB of memory
I/O Slots	Two PCIe x8
RAID Controller	PERC 6/E SAS 6/iR SAS 5/E
Drive Bays	2 x 3.5" cabled or hot-plug hard drive bays Optional 1 slim-line DVD-ROM, CD-RW/DVD combo drive, or DVD+/-RW drive
Maximum Internal Storage	2TB (2 x 1TB) SAS 2TB (2 x 1TB) SATA
Hard Drives[1]	3.5" SAS (10K rpm): 400GB 3.5" SAS (15K rpm): 73GB, 146GB, 300GB, and 450GB 3.5" Nearline SAS (7.2K rpm): 500GB, 750GB and 1TB 3.5" SATA (7.2K rpm): 160GB, 250GB, 500GB, 750GB and 1TB
Communications	Embedded dual port GB LOM Optional single port Intel Pro/1000 PF (fiber) Optional single and dual port Intel Pro/1000 PT Gigabit Adapter Optional Broadcom® NetXtreme™ Gigabit Adapters
Power Supply	Single power supply (400W) Optional redundant power supplies (400W each) **Uninterruptible Power Supplies:** 1000W-5600W 2700W-5600W High Efficiency Online Extended Battery Module (EBM) Network Management Card
Availability	ECC memory, add-in RAID, tool-less chassis, hot-plug hard drives, redundant PSU, TPM
Video	Integrated ATI® ES1000 VGA Controller with 32MB memory
Remote Management	DRAC 5, Baseboard Management Center
Systems Management	Dell™ OpenManage™
Rack Support	4 post; 1U rack; toolless chassis access
Operating Systems	Microsoft® Windows® Small Business Server 2008 Microsoft® Windows® Essential Business Server 2008 Microsoft® Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V™) Microsoft® Windows Server® 2008 R2, x64 (includes Hyper-V™ v2) Microsoft® Windows® HPC Server 2008 Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® Sun® Solaris™ For more information on the specific versions and additions, visit www.dell.com/OSsupport.
Featured Database Applications	Microsoft® SQL Server® solutions (see Dell.com/SQL) Oracle® database solutions (see Dell.com/Oracle)

[1] GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

OEM Ready Models Available

OEM Ready platforms are grab-and-go products for OEM customers delivering a fast and simple path to a custom-branded solution. For more information, please visit dell.com/OEM.

Learn more at Dell.com/PowerEdge