

DELL™ POWEREDGE™ R300



The 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 introduces a new, advanced 1-socket chipset and processors specifically designed for excellent performance and high 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. In fact, this new generation of PowerEdge servers is the most secure Dell has ever produced. Standard features include a locked-down internal USB port, chassis intrusion switch, locking bezels and a built-in Trusted Platform Module (TPM) 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 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.

ABOUT DELL GLOBAL SERVICES

Dell Global Services simplify the management of your IT environment so you get up and running quickly, with lower deployment costs, fewer hassles, and less time spent on non-strategic tasks. You pay only for the services you need, gain instant access to the latest innovations without additional infrastructure investment, and take your business from maintenance to momentum.

Many IT services today are outdated, expensive, inflexible and people-intensive. As a result, businesses can be burdened with lengthy contracts, trapped in old technology and spending much more than is necessary just to keep the lights on. Dell is changing all of that by integrating cutting edge technologies into our products and global service infrastructure to forever change the way services are delivered, purchased and managed. Tapping directly into Dell's world-class capabilities, resources and platform in this way will make it easier to reclaim valuable IT time and resources.

Many of the service investments Dell has made are available through or in conjunction with Dell's global network of PartnerDirect channel partners. For more information please visit www.dell.com/services or contact your local Dell PartnerDirect Registered partner.

FEATURES	DELL™ POWEREDGE™ R300 SERVER
Form Factor	1U Rack
Processors	Quad-Core Intel Xeon Processor 5000 Sequence Dual and Quad-Core Intel Xeon Processor 3000 Sequence 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 5100 Chipset
Memory	Six ECC DDR-2 667 SDRAM DIMM sockets for up to 24GB of memory
I/O Slots	Two PCIe x8
Drive Controller	Embedded SATA Controller, Optional SAS 5/E Controller
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	2.0TB (2 x 1.0TB) SAS 2.0TB (2 x 1.0TB) SATA
Hard Drives	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 1.0TB 3.5" SATA (7.2K rpm): 160GB, 250GB, 500GB, 750GB and 1.0TB
Network Interface Cards	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 Nextreme Gigabit Adapters
Power Supply	Single power supply (400W) Optional redundant power supplies (400W each)
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; tool-less chassis access
Operating Systems	Microsoft Windows Essential Business Server 2008 Microsoft® Windows® Server 2003 R2 Microsoft® Windows® Server 2008, SP2 Microsoft® Windows® Small Business Server 2008 Microsoft® Windows® Small Business Server 2003 R2 Red Hat® Linux® Enterprise 5.2, 5.3 Novell SUSE Linux ES10, 11
Embedded Hypervisor	NA

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