



Dell PowerEdge R805

The Dell™ PowerEdge™ R805 delivers quick virtualization deployment with embedded hypervisors saving valuable time.

The Dell PowerEdge R805 blends the correct processing power, memory, and I/O for great virtualization performance.

The virtualization-designed Dell PowerEdge R805 delivers on Dell's promise to focus on the most relevant challenges businesses face in their data centers: power and cooling, virtualization, density, and performance.

Ultimate Design for Virtual Infrastructure

The PowerEdge R805 further simplifies the equation for businesses seeking to leverage virtualization in their data centers by embedding the latest virtualization software from industry leading vendors such as VMware, Microsoft and Citrix. When it comes to reducing the time to productivity, the PowerEdge R805 simplifies deployment in virtualized environments—providing the capability to begin migrating live virtual machines within a few clicks of a mouse.

Smarter Path to Virtualization

Dell helps you optimize virtualization efficiency, saving you time, money, and resources. Dell's approach to virtualization is centered on providing a Smarter Path to Virtualization with a complete end-to-end iSCSI solution.

Smart foundations deliver performance the competition can't beat. From initial design and deployment to ongoing support, Dell is focused on eliminating unnecessary steps in managing your virtual infrastructure. Dell's fixed scope of services deliver the expertise you need, when and where you need it, to help you quickly and efficiently deploy an optimized virtual infrastructure. Dell server and storage platforms are engineered from the ground up to deliver the optimal balance between performance and cost for virtual environments.

Dell partners with the leading providers of virtualization solutions to provide our customers with choice and flexibility in their virtualization deployments. Deploying an iSCSI SAN with the "storage direct" management method can offer significant advantages in virtualized environments.

The Dell™ EqualLogic™ PS6000S is a virtualized iSCSI SAN that combines intelligence and automation with fault tolerance to provide simplified administration, rapid deployment, enterprise performance and reliability, and seamless scalability. With Solid State Drives (SSD) the PS6000S array provides low-latency, high-IOPS transactional performance.

The PS6000S is an intelligent storage array that provides rapid installation, simple management, and seamless expansion. All PS Series storage arrays include SAN configuration features and capabilities that sense network topology, automatically build RAID sets, and conduct system health checks to help ensure that all components are fully functional. A PS6000S can often be installed, configured and serving storage in less than 1 hour.

An Energy-Efficient Virtualization Solution

For businesses that require the highest levels of performance while maintaining a low energy footprint, the PowerEdge R805 drives great energy economy for standard 2U 2-socket systems in the industry. Leveraging 90% efficient power supplies, DDR2 SDRAM, AMD High Efficiency (HE) Processors, and the option for diskless operation, the PowerEdge R805 provides a holistic approach to energy efficiency from server to storage. The PowerEdge R805 and Dell EqualLogic PS5000 family provides an energy-efficient virtualized iSCSI solution in the market.

The PowerEdge R805 delivers a streamlined, end-to-end virtualized solution that allows the fast response to changing business needs customers desire.

Feature	Technical Specification
Form Factor	2U rack
Processors	Up to Six-Core AMD Opteron™ 2400 series processors
Processor Sockets	2
Front Side Bus or HyperTransport	HT1, HT3 available depending on processor selected
Cache	6x512k Dedicated L2 and up to 6MB, L3 Cache
Chipset	NVIDIA® MCP55Pro + IO-55
Memory¹	Up to 128GB (16 DIMM slots): 512MB/1GB/2GB/4GB/8GB ECC DDR2 SDRAM (single or dual-rank support)
I/O Slots	1x PCIE x8 slot, full length, full height ² 2x PCIE x8 slots, half length, full height 1x PCIE x4 slot, half length, full height
RAID Controller	Integrated PERC 6/i or SAS 6/iR RAID controllers
Drive Bays	2 x 2.5" Hard Drive Option: up to 2 SAS HDs (10K/15K) or SATA II (7.2K) Slim optical drive bay with choice of DVD-ROM or DVD/RW
Maximum Internal Storage¹	Up to 600GB via 2.5" 300GB hot-plug SAS hard drives
Hard Drives¹	2.5" 6Gbs SAS (10K): 300GB, 600GB 2.5" SAS (10K rpm): 73GB, 146GB, or 300GB 2.5" SAS (15K rpm): 36GB, 73GB and 146GB 2.5" SATA II (7.2K rpm): 80GB, 120GB, 160GB and 250GB 2.5" SSD: 25GB, 50GB
Communications	Four embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NICs with failover and load balancing. TOE (TCP/IP Offload Engine) supported on Microsoft® Windows Server® 2003, SP1 or higher with Scalable Networking Pack. iSCSI Offload supported on Microsoft® Windows Server® 2008, Microsoft® Windows Server® 2003 SP1 or higher, Red Hat® Enterprise Linux® 5, and Novell® SUSE® LINUX® Enterprise Server 10. Scalable Networking Pack for Microsoft Windows Server 2003 is not required. Supports optional single-, dual-, or quad-port 1 GbE and single-port 10 GbE add-in NICs. Also available 2 x 5708 + 2 x 5709 GbE LOMs, or 2 x 5708 GbE LOMs + 2 x 57710 10GbE LOMs. Intel® Gigabit ET Dual Port Server Adapter and Intel® Gigabit ET Quad Port Server Adapter Brocade® CNA (1020) Dual Port Server Adapter Optional Add-in HBA's: Emulex® OCE10102-IX-D CNA iSCSI HBA stand-up adapter Brocade® FC4 and 8 GB HBAs
Power Supply	Standard Redundant 700 watt hot-plug power supplies Auto-switching universal 110/220 Volts Uninterruptible Power Supplies: 1000W-5600W 2700W-5600W High Efficiency Online Extended Battery Module (EBM) Network Management Card
Availability	ECC DDR2-SDRAM memory, SDDC, Spare Bank; hot-plug hard drives; hot-plug redundant power supplies; four embedded NICs with failover and load balancing support; optional PERC6/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SCSI cluster support; validated for Dell/EMC SAN
Video	Embedded ATI ES1000 with 16MB memory
Remote Management	Standard Baseboard Management Controller with IPMI 2.0 support
Systems Management	Dell™ OpenManage™
Rack Support	Combination RapidRails™/VersaRails™ sliding rail system & cable management arm
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™ Optional Embedded Hypervisors: Citrix® XenServer™ Microsoft® Hyper-V™ via Microsoft® Windows Server® 2008 VMware® vSphere™ 4.1 (including VMware ESX® 4.1 or VMware ESXi™ 4.1) 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.

² Full x8 performance is application dependent.

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.

For more information visit www.Dell.com/PowerEdge

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