



Dell PowerEdge R905

The Dell™ PowerEdge™ R905 was designed for architected performance and streamlined virtualization deployment.

Flexible, stable, scalable server solution with good price performance for balanced virtualization performance.

Architected for Performance, Virtualization Ready

The Dell PowerEdge R905 is architected for performance and streamlined virtualization deployment. The PowerEdge R905 is fine-tuned to provide robust performance with the ideal formula of processor technology, memory capacity, and I/O scalability. Featuring the latest AMD Opteron™ processors, twice the memory and I/O scalability of previous-generation standard 4U 4-socket servers, the PowerEdge R905 helps remove the barriers to running memory and I/O bound applications such as VMware® ESX.

The PowerEdge R905 further simplifies data centers by embedding the latest virtualization software from the leading vendor in the industry such as VMware® ESX, Citrix® XenServer™, or Microsoft® Hyper-V™. The PowerEdge R905 is designed to streamline deployment in virtualized environments, providing the capability to begin migrating live virtual machines within a few clicks of a mouse. The PowerEdge R905 also provides the performance scalability to address intensive database, enterprise application, and virtualization workloads. Dell's strategy for virtual infrastructure is to manage it like everything else, with the tools you already use. That's why we're working with the leading management solution providers to offer an integrated solution for managing Dell physical and virtual infrastructures.

Energy-Efficient Virtualization Solution

The PowerEdge R905 drives great energy economy for standard 4U 4-socket systems. Utilizing 90% efficient power supplies, DDR2 SDRAM, and AMD Opteron™ 8000 Series Processors, Dell provides a holistic approach to energy efficiency from server to storage.

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.

Supporting Your Unique Environment

The right support is not one-size-fits-all, so Dell ProSupport provides a flexible, reliable, and easy support model—empowering you to customize services to meet your unique business needs. For example, organizations with an IT team can take advantage of Dell ProSupport for IT. You get the tech-to-tech support you need and the ability to bypass phone-based troubleshooting with Fast Track Dispatch when you already know the problem.

Further maximize the availability and stability of your infrastructure through Dell ProSupport Proactive Maintenance with scheduled assessments, streamlined patch management, and detailed reporting. Additionally, Dell ProSupport Remote Advisory options can provide telephone access to technical expertise on applications and solutions such as Microsoft Exchange, virtualization, and more.

Fast, robust virtualization performance built on stable, consistent AMD architecture.

Feature	Technical Specification
Form Factor	4U rack
Processors	Up to four Six-Core or Quad-Core AMD Opteron™ 8000 Series processors
Processor Sockets	4
Front Side Bus or HyperTransport	1,000MHz Bi-Directional HyperTransport
Cache	4x512k Dedicated L2 and 2 MB Shared L3 Cache
Chipset	Broadcom® HT-2100 and HT-1100 server
Memory¹	Up to 256GB (32 DIMM slots: 512MB, 1GB, 2GB, 4GB, 8GB); (ECC DDR2, SDRAM- single- or dual-rank support)
I/O Slots	7 available PCI-E slots (2 x8 and 5 x4)
RAID Controller	Optional PERC 6/i or SAS 6/iR, PERC6/E
Drive Bays	2.5" Hard Drive Option: up to 8 SAS HDs (10K/15K) 3.5" Hard Drive Option: up to 5 SAS HDs (10K/15K) Peripheral bay options: Slim optical drive bay with choice of DVD-ROM, Combo CD-RW/DVD-ROM, or DVD + RW
Maximum Internal Storage	Up to 5TB
Hard Drives¹	2.5" 6Gbs SAS (10K): 300GB, 600GB 2.5" SAS (10K rpm): 73GB, 146GB, 300GB 2.5" SAS (15K rpm): 36GB, 73GB, 146GB 3.5" SAS (10K rpm): 300GB, 400GB, 600GB 3.5" SAS (15K rpm): 73GB, 146GB, 300GB, 450GB 3.5" Near-Line SAS (7.2K rpm): 500 GB, 750GB, 1TB 3.5" 2.0TB SATA
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® Linux® Enterprise 5, and 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. Broadcom® NetXtreme II® 57711 Dual Port Direct Attach 10Gb Ethernet PCI-Express Network Interface Card with TOE and iSCSI Offload Intel® Gigabit ET Dual Port Server Adapter and Intel® Gigabit ET Quad Port Server Adapter Dual Port 10Gb Enhanced Intel® Ethernet Server Adapter X520-DA2 (FcoE Ready for Future Enablement) Optional add-in NIC's: 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	Dual redundant 1100W hot-plug auto-switching 110/220V AC power supplies
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 32MB video memory
Remote Management	Baseboard Management Controller with IMPI 2.0 support; optional DRAC5 (advanced capabilities)
Systems Management	Dell™ OpenManage™
Rack Support	RapidRails™ sliding rails for 4-post square hole racks; VersaRails sliding rails for 4-post square or unthreaded round hole racks
Operating Systems	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™ VMware® vSphere™ 4.1 (including VMware ESX® 4.1 or VMware ESXi™ 4.1)
Featured Database Applications	For more information on the specific versions and additions, visit www.dell.com/OSsupport . 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.

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.

Simplify your servers at Dell.com/PowerEdge

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