

# DELL POWEREDGE R905 SERVER



The Dell™ PowerEdge™ R905 is architected for high performance. It offers streamlined virtualization capabilities, plus twice the memory and I/O scalability of the previous generation of 4U 4-socket servers.



## **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 PowerEdge R905 and Dell PS5000 family are engineered to provide an energy-efficient virtualized iSCSI solution.

## **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.

## ABOUT DELL GLOBAL 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.

FEATURES	DELL™ POWEREDGE™ R905 SERVER
<b>Form Factor</b>	4U rack-mount
<b>Processors</b>	Up to four Six-Core or Quad-Core AMD Opteron™ 8000 Series processors
<b>Processor Sockets</b>	4
<b>Front Side Bus or HyperTransport</b>	1,000MHz Bi-Directional HyperTransport
<b>Cache</b>	4x512k Dedicated L2 and 2 MB Shared L3 Cache
<b>Chipset</b>	Broadcom HT-2100 and HT-1100 server
<b>Memory</b>	Up to 256GB (32 DIMM slots: 512MB, 1GB, 2GB, 4GB, 8GB); (ECC DDR2, SDRAM- single- or dual-rank support)
<b>I/O Slots</b>	7 available PCI-E slots (2 x8 and 5 x4)
<b>Drive Controller</b>	SAS 6/iR or PERC 6/i
<b>RAID Controller</b>	Optional PERC 6/i or SAS 6/iR, PERC6/E
<b>Drive Bays</b>	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
<b>Maximum Internal Storage</b>	Up to 5TB
<b>Hard Drives<sup>1</sup></b>	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
<b>Network Interface Cards</b>	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 57110 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)
<b>Power Supply</b>	Dual redundant 1100W hot-plug auto-switching 110/220V AC power supplies
<b>Availability</b>	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
<b>Video</b>	Embedded ATI® ES1000 with 32MB video 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>	RapidRails™/VersaRails™ sliding rail system & cable management arm
<b>Operating Systems<sup>3</sup></b>	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 <a href="http://www.dell.com/OSsupport">www.dell.com/OSsupport</a> .
<b>Embedded Hypervisors</b>	Citrix® XenServer Dell Express Edition Citrix XenServer Dell Enterprise Edition Microsoft HyperV via Microsoft Windows Server 2008 VMware® ESXi 3.5 VMware ESX 3.5 VMware vSphere 4.0

<sup>1</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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