

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 HyperV. 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.

Dell ProSupport options give you the opportunity to directly align support to address critical challenges, like maximizing the uptime of your server and storage infrastructure. The Dell ProSupport Mission Critical option is designed to help you reduce critical downtime by as much as 48%.¹ Dell is recognized as a leader in the industry for mission-critical support and is the 2005 and 2007 winner of the highly coveted SSPA Award for Mission Critical Support.

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.

Services may vary by region.

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™ R905 SERVER
Form Factor	4U rack-mount
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
Memory	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)
Drive Controller	SAS 6/iR or PERC 6/i
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" 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
Network Interface Cards	Four embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NICs with failover and load balancing. TOE (TCPIP 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.
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	Supports 4-post (Dell rack), 3rd party Versa rails, sliding rails & cable management arm
Operating Systems	Microsoft Windows Server 2008, SP 2 Microsoft Windows® Server 2008, Small Business Server Novell SuSe Linux 10 SP2, 11 Red Hat Enterprise Linux Solaris 10 (Non-factory Installed)
Embedded Hypervisors	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

¹ Based on an August 2007 internal study of Severity 1 resolution time for Dell customers upgrading to Platinum Plus Enterprise Support from lower Dell service levels. Select features of Platinum Plus are now available in the Dell ProSupport Mission Critical Option. These features include critical situation procedures for Severity 1 issues, emergency dispatch, problem replication in simulation labs, and 2-hour or 4-hour onsite response.

² 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.

SIMPLIFY YOUR SERVERS AT DELL.COM/PowerEdge

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