

# DELL™ POWEREDGE™ R900 SERVER



Dell's most powerful Intel-based server, the PowerEdge™ R900 amplifies performance for virtualization, RISC migration and data-demanding applications. Positioned at the top of the PowerEdge portfolio, the R900 features the Intel® Xeon® 7400 series Six- and Four-Core Processors that can strengthen the capabilities of your virtual infrastructure and streamline deployment. The R900



also offers Dell's highest level of scalability, and system availability with up to 256GB of memory to deliver an enhanced solution for RISC migration and data-demanding applications, all in an advanced energy-efficient platform. With the PowerEdge R900, your data center can benefit from simplified operations, maximized value, and lowered costs.

## **OUTSTANDING VIRTUALIZATION PERFORMANCE**

Designed with powerful virtualization capabilities, the PowerEdge R900 provides outstanding performance in a four-socket server with Intel Xeon® Six-Core Processors and up to 256 GB of memory. The R900's Xeon 7400 series processors support V-Motion for migration of data from one server to another with no interruption of the application, enabling load balancing in real time.

The R900 also streamlines deployment and provides ease-of-use in virtual infrastructures with factory-integrated hypervisors that can help simplify virtualization both now and in the future. Choose between VMware® ESX, Citrix® XenServer™ or Microsoft HyperV, and then power up the server and begin migration of virtual machines in a matter of minutes.

## **AN IDEAL SERVER FOR RISK MIGRATION**

With up to 24 cores and its increased memory, the R900 is the ideal solution for migration from expensive proprietary RISC/UNIX environments to an x86 industry standards-based solution, freeing your data center from being locked into costly proprietary systems over prolonged periods of time. Migrating to an open x86 platform can reduce costs and improve overall management while providing a foundation that scales easily and affordably for future needs. The R900 offers further choice and flexibility by supporting SUSE Linux®, Solaris™ and Windows® operating systems for migration from RISC environments.

## 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](http://www.dell.com/services) or contact your local Dell PartnerDirect Registered partner:

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FEATURES	DELL™ POWEREDGE™ R900 SERVER
<b>Form Factor</b>	4U rack-mount
<b>Processors</b>	Up to 4 six-core or four-core 64-bit Intel® Xeon® Processors 7400 Also available: Four quad-core 64-bit Intel Xeon Processors 7300 sequence Dual-core 64-bit Intel Xeon Processors 7200 sequence
<b>Processor Sockets</b>	2
<b>Front Side Bus or HyperTransport</b>	Four Independent 1066MHz
<b>Cache</b>	Up to 8MB L3 cache per processor
<b>Chipset</b>	Intel® 7300
<b>Memory</b>	Up to 256GB (32 DIMM slots): 512MB / 1GB / 2GB / 4GB / 8GB / FBD, 667MHz Optional high-availability features including memory sparing and mirroring; Optional 4GB Quad-rank (low-power) DIMMs available
<b>I/O Slots</b>	Seven available PCI Express™ slots (four x8, three x4)
<b>Drive Controller</b>	SAS 6/iR or PERC 6/i
<b>RAID Controller</b>	PERC 6i SAS 6/iR, PERC 6/E
<b>Drive Bays</b>	Five 3.5" SAS hot-plug drives or eight 2.5" SAS hot-plug drives; one optical drive bay (optional DVD-ROM, CD-RW, or DVD-RW)
<b>Maximum Internal Storage</b>	Up to 2TB
<b>Hard Drives</b>	2.5" SAS (10K RPM): 73GB, 146GB, 147GB, 300GB 2.5" SAS (15K RPM): 36GB, 73GB 3.5" SAS (10K RPM): 300GB, 400GB 3.5" SAS (15K RPM): 73GB, 146GB, 300GB
<b>Network Interface Cards</b>	Four embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NICs; iSCSI offload optional
<b>Power Supply</b>	1030W (90V-180VAC)-1570W (180-240VAC) hot-plug auto-sensing redundant power (1+1) Energy Smart™ High efficient power supply units (90% efficient) are standard
<b>Availability</b>	ECC memory with SDDC, Memory Sparing and Memory Mirroring; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; tool-less chassis; high availability fibre channel and SCSI cluster support
<b>Video</b>	Integrated ATI® RADEON™ ES1000 with 32MB of SDRAM
<b>Remote Management</b>	Baseboard Management Controller with IPMI 2.0 compliance, accessible via network or serial port; optional DRAC 5
<b>Systems Management</b>	Dell™ OpenManage™
<b>Rack Support</b>	4-post for Dell rack or supported third-party racks
<b>Operating Systems</b>	Microsoft® Windows Server® 2003 R2 with SP2 Enterprise Edition Microsoft Windows Server 2003 R2 with SP2 Standard Edition Microsoft Windows Server 2008 x64 Small Business Server Standard Edition Novell® SUSE Linux 10 Novell SuSe Linux 10 SP2 Red Hat® Linux® Enterprise v5, Advanced Platform Red Hat Enterprise Linux 5.2 x86_64 Red Hat Enterprise Linux 5.2 x86 Solaris 10 (Non-factory Installed)
<b>Embedded Hypervisor</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 Standard VMware ESX 3.5 Enterprise

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