

# 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® ESXi 3.5 or Citrix® XenServer™, and then power up the server and begin migration of virtual machines in a matter of minutes.

## **AN IDEAL SERVER FOR RISC 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. In addition, help drive down costs and complexity in your data center with Dell's premium free systems management, Dell OpenManage™.

## POWER AND STABILITY FOR BUSINESS-CRITICAL APPLICATIONS

Dell's most powerful Intel-based system to date, the R900 is designed to run the most data-demanding and compute-intensive applications. The R900 incorporates high-efficiency Energy Smart® power supply units that provide 90% efficiency to further improve performance-per-watt and maximize value. Powerful, stable, and energy efficient, the PowerEdge R900 is an outstanding choice for Oracle®, Microsoft® SQL®, and other business-critical, enterprise-class solutions.

## SIMPLIFIED MANAGEMENT

The PowerEdge R900 helps simplify your IT infrastructure with improved monitoring capabilities in a single, easy-to-use interface with the Dell OpenManage suite of management tools. Dell OpenManage features monitoring capabilities for power-sensitive and virtual environments. The R900 offers advanced security features, including the industry-standard Trusted Platform Module (TPM), a locked-down internal USB port, and a chassis intrusion sensor to help protect critical data.

## DELL SUPPORT AND SERVICES

Dell Services and ProSupport options align to the way organizations use technology — rapidly responding to their needs and helping to protect their investment, productivity, and sensitive data. We can also provide enhanced, proactive support options to help reduce the risk and complexity of managing infrastructure.

To help with the decision-making process, Dell Professional Services can assist with power and thermal evaluations, virtualization assessments, and design, deployment, and implementation assistance.

To learn more about Dell ProSupport visit [DELL.COM/ProSupport](http://DELL.COM/ProSupport)<sup>1</sup>

FEATURES	DELL™ POWEREDGE™ R900 SERVER
<b>Form Factor</b>	4U rack-mount
<b>Processor(s)</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>Front Side Bus</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>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 2.5" SAS (15K RPM): 36GB, 73GB 3.5" SAS (10K RPM): 300GB, 400GB 3.5" SAS (15K RPM): 73GB, 146GB, 300GB
<b>Internal Storage Performance</b>	10K/15K RPM SAS drives
<b>External Storage</b>	External: PowerVault™ 124T, 132T, TL2000, ML6000 series
<b>Tape Backup Options</b>	External only
<b>Network Interfaces</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 Novell® SUSE Linux 10 Red Hat® Linux® Enterprise v5, Advanced Platform
<b>Virtualization Software</b>	VMware® ESXi 3.5 VMware ESX 3.5 Standard Edition VMware ESX 3.5 Enterprise Edition

SIMPLIFY YOUR NETWORK AT [DELL.COM/Servers](http://DELL.COM/Servers)



<sup>1</sup> Availability and terms of Dell Services vary by region. For more information, visit [DELL.com/ServiceDescriptions](http://DELL.com/ServiceDescriptions).