



Dell PowerEdge R900

The Dell™ PowerEdge™ R900 is a tuned platform for data-demanding enterprise applications in a virtual environment.

The R900 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 VMware® vMotion™ 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® Hyper-V™, 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 Novell® 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™.

Focused Capabilities Deliver High Value

Evolve without risk through the Dell global delivery model and experienced industry and technology consultants. We'll help you implement, develop or modify applications to ensure alignment with organizational needs and objectives—resulting in reduced costs, increased productivity and improved compliance—no matter the demand:

Consulting—Identify opportunities for improvement, as well as needs not addressed by your current application architecture, through customization, modernization and maintenance.

Development—Build customized applications for your organization, using Dell expertise in a wide range of development platforms.

Integration—Create a singular, interconnected IT community for your entire organization by strengthening data transfer communications with suppliers and customers, and by streamlining physical data collection points.

Testing—Minimize risk through comprehensive, pre-deployment application testing, and reduce time to market through our low-cost, global resources.

Maintenance—Extend application lifespan through custom enhancements, user and system support, and upgrades.

Migrating to an open x86 platform can reduce costs and improve overall management while providing an affordable foundation that scales easily for future needs.

Feature	Technical Specification
Form Factor	4U rack
Processors	Up to 4 six-core or four-core 64-bit Intel® Xeon® Processors 7400 series Also available: Up to 4 quad-core 64-bit Intel® Xeon® Processors 7300 series, or Dual-core 64-bit Intel® Xeon® Processors 7200 series
Processor Sockets	4
Front Side Bus or HyperTransport	Four Independent 1066MHz
Cache	Up to 8MB L3 cache per processor
Chipset	Intel® 7300
Memory¹	Up to 256GB (32 DIMM slots): 512MB / 1GB / 2GB / 4GB / 8GB / FBD, 667MHz or 1333MHz Optional high-availability features including memory sparing and mirroring; Optional 4GB Quad-rank (low-power) DIMMs available
I/O Slots	Seven available PCI Express™ slots (four x8, three x4)
RAID Controller	PERC 6i SAS 6/iR, PERC 6/E
Drive Bays	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)
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 3.5" SAS (10K rpm): 300GB, 400GB, 600GB 3.5" Near-Line SAS (7.2K rpm): 500GB, 750GB, 1TB 3.5" SAS (15K rpm): 73GB, 146GB, 300GB, 450GB 3.5" 2.0TB SATA
Communications	Four embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NICs; iSCSI offload optional Intel® Gigabit ET Dual Port Server Adapter and Intel® Gigabit ET Quad Port Server Adapter Brocade® CNA Dual-port adapter; Emulex CNA Standup HBA adapter OCE10102-FX-D; Emulex CNA iSCSI HBA stand up adapter OCE10102-IX-D Optional Add-in HBA's: Brocade FC4 and 8 GB HBAs
Power Supply	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
Availability	ECC memory with SDDC, Memory Sparing and Memory Mirroring; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; toolless chassis; high-availability fibre channel and SCSI cluster support
Video	Integrated ATI® Radeon® ES1000 with 32MB of SDRAM
Remote Management	Baseboard Management Controller with IPMI 2.0 compliance, accessible via network or serial port; optional DRAC 5
Systems Management	Dell™ OpenManage™
Rack Support	4-post for Dell rack or supported third-party 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 Hypervisor: Citrix® XenServer™ Microsoft® Hyper-V™ via Microsoft® Windows Server® 2008 VMware® vSphere™ 4.1 (including VMware ESX® 4.1 or VMware ESXi™ 4.1) For more information on the specific versions and additions, visit www.dell.com/OSsupport .
Featured Database Applications	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.

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