



# Dell PowerEdge R910

The Dell™ PowerEdge™ R910 provides performance and reliability in a scalable 4U, four-socket server allowing large workload consolidation or max virtualization machine density.

With Intel® Advanced RAS (Reliability, Availability, Serviceability) Technology, internal dual SD modules for hypervisor redundancy, including design and component quality paired with Dell Lifecycle Controller, technicians avoid having to load diagnostics from other media. Dell built-in reliability saves valuable time and minimizes downtime for mission-critical workloads.

## Purpose Built for Reliability

The PowerEdge R910 is built for reliability through factory integration and validation. The Dell “one-touch” process is designed to ensure one person is responsible for the entire server build, resulting in greater quality control. Every fully configured Dell server is tested (and re-tested) before it leaves the factory providing customers a fully configured and tested ready-to-deploy server.

Internal Dual SD module provides failover at the hypervisor; this feature was designed based on customer reliability feedback. Dell listened and delivered.

With Intel Advanced RAS Technology features never before seen in an industry-standard server, the PowerEdge R910 can automatically monitor, report, and recover from hardware errors to maintain data integrity and keep mission-critical services online.

## Efficient Infrastructure

Performance resources, power efficiency, I/O, and memory scalability are essential to maximizing workload in the data center.

The PowerEdge R910 delivers the highest performing Intel® Xeon® processors, up to 1TB of DDR3 memory, and 2 x 10Gb Optional LOM with 10 PCIe slots to help consolidate inefficient workloads.

Energy-efficient system design built with Energy Smart technologies includes power management features enabling power capping, power inventory, and power budgeting within your specific environment. Logical component layout of the internal components aids with airflow direction, helping to keep the server cool.

## Intelligent Platforms, Connected Foundations

The PowerEdge R910 follows the 11th Generation PowerEdge behavioral specifications with the same system design commonality and usability true to the entire portfolio. All 11th Generation servers are designed to make

the user experience easier while saving time and money.

Dell system management solutions focus on simplicity, efficiency, cost containment and reduction, and an adherence to open standards. Our systems management solutions are complemented by, connected to, and integrated with 3rd-party offerings, thereby delivering comprehensive solutions across the complete solutions stack.

The Lifecycle Controller is a chip that is integrated on the server. It helps to simplify administrator tasks by performing a complete set of provisioning functions such as system deployment, system updates, hardware configuration, and diagnostics in a pre-OS environment—all from a single, intuitive interface called the Unified Server Configurator (USC).

## 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.

The PowerEdge R910 is easy to deploy, better to manage and maintain. Designed to save customers time and money to focus on what matters most, their people and business.

Feature	Technical Specification																				
<b>Form Factor</b>	4U rack																				
<b>Processors</b>	Eight-core Intel® Xeon® processor 7500 series Ten-core Intel® Xeon® E7-4800 and E7-8800 product family																				
<b>Processor Sockets</b>	4																				
<b>Front Side Bus or HyperTransport</b>	Intel® QuickPath Interconnect (QPI)																				
<b>Cache</b>	Up to 30MB																				
<b>Chipset</b>	Intel® E7510																				
<b>Memory<sup>1</sup></b>	Up to 2TB (64 DIMM slots): 1GB/2GB/4GB/8GB/16GB/32GB DDR3 up to 1066MHz																				
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<b>Drive Bays</b>	Up to sixteen hot-plug 2.5" SATA SSD, SAS, nearline SAS, or SATA drives																				
<b>Maximum Internal Storage</b>	Up to 16TB																				
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<b>Power Supply</b>	Hot-plug redundant PSUs: 4 x 750W (Energy Smart PSU) (or) 4 x 1100W (High Output PSU)																				
<b>Availability</b>	Hot-plug hard drives, Hot-plug redundant power, Hot-plug redundant fans, ECC memory, Internal dual SD Module, redundant cooling																				
<b>Video</b>	Matrox® G200 w/ 8MB memory																				
<b>Remote Management</b>	iDRAC6 Express iDRAC 6 Enterprise with vFlash optional																				
<b>Systems Management</b>	Dell™ OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator Lifecycle Controller enabled through optional iDRAC6 Express, iDRAC6 Enterprise, and vFlash Microsoft® System Center Essential (SCE) 2010 v2																				
<b>Embedded Hypervisor</b>	Optional Dual-Media Redundant Hypervisor																				
<b>Rack Support</b>	ReadyRails™ sliding rails with optional cable management arm for 4-post racks (optional adapter brackets required for threaded hole racks)																				
<b>Operating Systems</b>	<p>Microsoft Windows® Server 2008 SP2, x86/x64 (x64 includes Hyper-V™)</p> <p>Microsoft Windows® Server 2008 R2 SP1, x64 (includes Hyper-V™ v2)</p> <p>Microsoft® Windows® HPC Server 2008</p> <p>Novell® SUSE® Linux Enterprise Server</p> <p>Red Hat® Enterprise Linux</p> <p><b>Virtualization Options:</b></p> <p>VMware® vSphere™ 4.1 (including VMware ESX® 4.1, VMware ESXi™ 4.1, or ESXi 5.0)</p> <p>For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a>.</p>																				
<b>Featured Database Applications</b>	Microsoft® SQL Server® solutions (see <a href="http://Dell.com/SQL">Dell.com/SQL</a> ) Oracle® database solutions (see <a href="http://Dell.com/Oracle">Dell.com/Oracle</a> )																				

<sup>1</sup> GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

## OEM Ready Models Available

OEM Ready platforms are grab-and-go products for OEM customers delivering a fast and simple path to a custom-branded solution. For more information, please visit [Dell.com/OEM](http://Dell.com/OEM).

## Customer-Inspired, Intelligent Design at [Dell.com/PowerEdge](http://Dell.com/PowerEdge)

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