



# Dell PowerEdge R515

The Dell™ PowerEdge™ R515 is a 2-socket 2U rack server well-suited for database, email, virtualization, workload consolidation and other applications requiring an immense amount of local storage.

## Business Value Built-In

The PowerEdge R515 offers outstanding price for performance with the latest AMD Opteron™ processors and enterprise-class features, including advanced systems management capabilities, an interactive LCD screen (8 hard drive model) as well as hot-swap hard drives and redundant power supplies for additional business data protection. The PowerEdge R515 also offers a choice of an 8 or 12 hard drive configuration delivering up to 25TB of internal storage space, making it ideally suited to meet the demands of the small- to mid-sized business or data center with superior stability, efficiency and long-term business value.

## Designed to Go the Distance

You've told us you need a server manufacturer that inspires confidence through its reliability, availability, and quality of products. That is why we have designed the PowerEdge R515 for optimal reliability and ease of use, incorporating customer-inspired features that range from robust metal hard-drive carriers and industrial-quality materials to embedded diagnostics and an interactive LCD screen.

Our reliability goals are simple: Deliver quality products that stand the test of time.

- A Unified Server Configurator (USC) helps minimize downtime by offering embedded and persistent diagnostics with no media requirements.
- A "one-touch" quality-control process enables single-person responsibility for an entire server build.
- Every Dell server model is tested—and re-tested—before it leaves the factory.
- Our operating system, application and software integration testing and validation helps to ensure that everything works together right out of the box.
- A focus on product longevity provides fully supported product lifecycles for better investment protection.

## Efficient from the Inside Out

The PowerEdge R515 was designed to provide you with a multitude of time- and energy-saving options, not only inside the server, but outside as well.

On the outside of the PowerEdge R515 we have put all of the external ports, power supplies and LED lights or LCD screens in the same location as other 11th generation PowerEdge servers for a familiar server-to-server usability and commonality, as well as for easy installation and deployment.

Inside the server, we have Energy Smart technologies to help you better manage power. This includes low-wattage processors, support for low-voltage DIMMs, and efficient fans that spin in accordance with server workload demands. Internal shrouding and logical component layouts aid with airflow direction helping to cool the server. And energy-efficient power supplies use power

effectively without compromising business productivity.

## Easy to Manage

As an IT professional you do not have a lot of time to spend managing and maintaining your systems. That is why the Dell systems-management portfolio focuses on two core principles to make your life easier: simplicity and cost-effectiveness.

- The optional Lifecycle Controller helps you perform system diagnostics, hardware configuration and system deployment in a pre-OS environment from an easy-to-use interface called the Unified Server Configurator (USC). This helps eliminate the need to use and maintain multiple pieces of CD/DVD media and helps get your server up and running fast.
- An interactive LCD screen (8 hard drive model) on the front of the server allows for easy setup, monitoring and maintenance. Plain-language diagnosis and a programmable messaging system can help you address issues quickly to simplify day-to-day monitoring.
- The Dell Management Console, which is included with every Dell server, provides you with a consolidated console view of your IT infrastructure.
- Automated update notification from Support.Dell.com provides you with the latest updates for firmware, drivers and BIOS so your systems are always running at their best.

The PowerEdge R515 offers enterprise-class features and superior price for performance.

Feature	Technical Specification
Form Factor	2U rack
Processors	AMD Opteron™ 4100 series processors
Processor Sockets	2
Front Side Bus or HyperTransport	HyperTransport-3 Links
Cache	L2: 512K/core L3: 6MB
Chipset	AMD (SR5670 and SP5100)
Memory <sup>1</sup>	Up to 128GB (8 DIMM slots): 1GB/ 2GB/ 4GB/ 8GB/16GB up to 1333MHz
I/O Slots	<b>3 PCIe G2 slots + 1 storage slot:</b> One x8 slot Two x4 slots One storage x4 slot
RAID Controller	<b>Internal Controllers:</b> PERC H200 (6Gb/s) PERC H700 (6Gb/s); Non-Volatile battery-backed cache: 512MB, 1G PERC S300 (software based/8 HDD chassis only) <b>External Controllers:</b> PERC H800 (6Gb/s); Non-Volatile battery-backed cache: 512MB, 1G <b>External HBAs (Non-RAID):</b> 6GB/s SAS HBA
Drive Bays	8 hard drive chassis: 2.5" or 3.5" SAS, SATA or SSD drives 12 hard drive chassis: 2.5" or 3.5" SAS, SATA or SSD drives + 2x 2.5" internal cabled hard drives
Maximum Internal Storage	24TB-37.8TB (depending on chassis)
Hard Drives <sup>1</sup>	<b>Hot-plug Hard Drive Options:</b> 2.5" SAS SSD, SATA SSD, SAS (10K) 3.5" SAS (15K), nearline SAS (7.2K), SATA (7.2K)
Communications	Intel® 10GBase-T Copper Single Port NIC, PCI-E x8 Intel® PRO 1000 PT Single Port Adapter, Gigabit Ethernet NIC, PCI-E x1 Intel® Gigabit ET Dual Port Server Adapter, PCI-E x4 Intel® Gigabit ET Quad Port Server Adapter, PCI-E x4 Intel® Ethernet X520 DA2 Dual-Port 10 Gigabit Server Adapter Intel® X520-T2 Dual-Port 10 Gigabit Ethernet Server Adapter Broadcom® BCM5709C IPV6 Gigabit Copper Dual Port NIC with TOE and iSCSI Offload, PCI-E x4 Broadcom® BCM5709C IPV6 Gigabit Copper Dual Port NIC with TOE, PCI-E x4 Broadcom® BCM5709C 10/100/1000BASET Quad Port NIC Broadcom® NetXtreme® II 57711 Dual-Port SFP+/Direct Attach 10Gb Ethernet PCI-Express Network Interface Card with TOE and iSCSI Offload <b>Optional add-in CNA or FC HBAs:</b> Brocade® 1020 10G Converged Network Adapter (CNA)-dual port Emulex® LPe11002 FC4 HBA, Dual Port Emulex® LPe1150 FC4 HBA, Single Port Emulex® LPe12000 8Gbps FC HBA, Single Port Emulex® LPe12002 8Gbps FC HBA, Dual Port Emulex® OCE10102FXD, 10G PCI-e FCoE CNA, Dual Port Qlogic® QLE220 FC4 HBA, Single Port Qlogic® QLE2460 FC4 HBA, Single Port Qlogic® QLE2462 FC4 HBA, Dual Port Qlogic® QLE2560 8Gbps FC HBA, Single Port Qlogic® QLE2562 8Gbps FC HBA, Dual Port Qlogic® QLE8152 8Gbps FC HBA, Dual Port Brocade® FC HBA BR815 Brocade® FC HBA BR825
Power Supply	Redundant 750W hot-plug power supplies
Availability	Hot-plug hard drives, Hot-plug redundant power, ECC memory, and Quad-pack LED diagnostic or interactive LCD (only with 8 HDD chassis)
Video	Matrox® G200eW w/ 8MB memory
Remote Management	Optional: iDRAC6 Express, iDRAC6 Enterprise and vFlash (upgrade optional)
Systems Management	Dell OpenManage™ BMC, IPMI 2.0 compliant Lifecycle Controller enabled through optional: iDRAC6 Express, or iDRAC6 Enterprise and vFlash Unified Server Configurator
Rack Support	ReadyRails™ sliding rails for 4-post racks with support for optional cable management arm or ReadyRails™ static rails for 4-post and 2-post racks
Operating Systems	Microsoft® Windows® Small Business Server 2011 Microsoft® Windows® Small Business Server 2008 Microsoft® Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V™) Microsoft® Windows Server® 2008 R2 SP1, x64 (includes Hyper-V™ v2) Microsoft® Windows® HPC Server 2008 Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® <b>Virtualization Options:</b> Citrix® XenServer™ VMware® vSphere™ 4.1 (including VMware ESX® 4.1, VMware ESXi™ 4.1, or ESXi 5.0)  For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> .
Featured Database Application	Microsoft® SQL Server® solutions (see <a href="http://Dell.com/SQL">Dell.com/SQL</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.

## 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.

Learn more at [Dell.com/PowerEdge](http://Dell.com/PowerEdge)

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