Dell PowerEdge R715

Balanced for consolidation, virtualization, database, and general business applications, the Dell™ PowerEdge™ R715 server offers great price for performance with up to 24 processor cores and 16 DIMM slots.

Outstanding Performance, Lasting Value

The PowerEdge R715 features the latest AMD Opteron™ processor technology, designed to handle your most demanding workloads with superior stability, efficiency and long-term value.

Dell aims to bring value to your business by including the features and technology you need for your specific IT environment. Our goal is to deliver performance-driven, intelligent platforms based on industry standards and purposeful, innovative design.

Superior Reliability Inspired by You

We've designed the PowerEdge R715 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. The PowerEdge R715 also includes an internal dual SD module to provide failover at the hypervisor level.

Technology and Design that goes the Distance

You've told us you need a server manufacturer that inspires confidence through its reliability, availability and quality of products. With this in mind, we've set a simple reliability goal: deliver quality products that stand the test of time.

To help meet your needs in the data center and beyond, we're dedicated to improving server reliability processes by:

- Utilizing robust, durable industrial materials to enable longer product lifecycles
- Introducing a Unified Server Configurator (USC), which helps to minimize downtime by offering embedded and persistent diagnostics with no media required
- Improving redundancy generation over generation with features such as an internal dual SD module that provide failover at the hypervisor level
- Implementing a "one-touch" quality-control process to ensure that one person is responsible for the entire server build
- Ensuring that every fully configured Dell server is tested—and re-tested—before it leaves the factory

Efficient for your Environment

PowerEdge servers drive energy efficiency as a design standard without compromising the performance you need to meet cost and environmental goals. Built with Energy Smart technologies, Dell servers can better help manage power in your specific environment.

The PowerEdge R715 features highly efficient fans that help to conserve energy by spinning in accordance with server workload demands. In addition, the internal shrouding and logical layout of internal components aid with airflow direction, helping to cool the server.

The PowerEdge R715 also includes power-management features such as programmable voltage regulators, power-regulating processors and an interactive LCD screen for easy access to power-consumption information.

Intelligent, Connected Systems Management

Part of the Dell OpenManage™ systems management portfolio, the Lifecycle Controller, is the engine for advanced embedded management and is delivered as part of the iDRAC6 Express or optional iDRAC6 Enterprise in the PowerEdge R715. The Lifecycle Controller is an integrated chip accessed through the Unified Server Configurator. Using the USC, administrators can simplify tasks by performing a complete set of provisioning functions such as system deployment, system updates, hardware configuration and diagnostics in the pre-OS environment. The PowerEdge R715 also features an interactive LCD screen positioned on the front of the server for ease of monitoring.

Also part of the OpenManage™ systems management portfolio is the Dell Management Console, included with every Dell server, which provides IT managers with a consolidated view of their entire IT infrastructure.

The PowerEdge R715 provides an excellent balance of processor density, redundancy, memory capacity and value in a 2-socket, 2U form factor.

Feature	Technical Specification	
Form Factor	2U rack	
Processors	AMD Opteron™ 6100 series processors based on AMD Opteron 6000 series platform	
Processor Sockets	2	
Front Side Bus or HyperTransport	Hyper-Transport Links	
Cache	L2: 512K/core L3: 12MB (shared)	
Chipset	AMD SR5650, SR5670 and SP5100	
Memory	Up to 256GB (16 DIMM slots) 1GB/2GB/4GB/8GB/16GB DDR3 Up to 1333MHz	
I/O Slots	6 PCIe G2 slots + 1 storage slot: • Five x8 slots (Three with x16 connectors) • One x4 slot (with x8 connector) • One x4 Storage slot (with x8 connector)	
RAID Controller	**Internal Controllers:** PERC H200 PERC H700	**External Controllers:** PERC H800 SAS 5/E with 512MB battery- backed cache PERC 6/E with 512MB battery- backed cache 6GBs SAS HBA
Drive Bays	Up to six 2.5" hot-swappable SAS, SATA or SSD drives	
Maximum Internal Storage	3TB	
Hard Drives[1]	2.5" SATA (7.2K RPM): 160GB, 250GB, 500GB 2.5" Near Line SAS (7.2K RPM): 500GB 2.5" SAS (10K RPM): 146GB, 300GB 2.5" SAS (15K RPM): 73GB, 146GB 2.5" SATA SSD: 50GB, 100GB	
Network Interface Cards	Broadcom® BMC57710 10Base-T Cooper Single-Port NIC, PCI-E x8 Broadcom® 5709 IPV6 Dual-Port Gigabit Ethernet NIC, Copper, w/TOE PCI-E x4 Broadcom® 5709 IPV6 Dual-Port Gigabit Ethernet NIC, Copper, TOE/iSCSI PCI-E x4 Broadcom® NetXtreme™ II 57711 Dual Port 10Gb Ethernet SFP+ Broadcom® NetXtreme™ II 5709 Gigabit Copper Quad-Port NIC w/TOE and iSCSI offload, PCI-E x4 Intel® 10GBase-T Copper Single-Port NIC, PCI-E x8 Intel® 10GB, Dual-Port SFP+,PCI-E x8 NIC Intel® Gigabit ET Dual-Port Server Adapter Intel® Gigabit ET Quad-Port Server Adapter	**Optional add-in HBAs:** Qlogic® QLE 2462 FC4 Dual-Port 4 Gbps Fiber Channel HBA Qlogic® QLE 220 FC4 Single-Port 4 Gbps Fiber Channel HBA Qlogic® QLE 2460 FC4 Single-Port 4 Gbps Fiber Channel HBA Qlogic® QLE2562 FC8 Dual-channel HBA, PCI-E Gen 2 x4 Qlogic® QLE2560 FC8 Single-channel HBA, PCI-E Gen 2 x4 Qlogic® QLE8152 Dual-Port 10 Gbps FCoE Converged Network Adapter Emulex® LPe-1150 FC4 Single-Port 4 Gbps Fiber Channel HBA, PCI-E x4 Emulex® LPe-11002 FC4 Dual-Port 4 Gbps Fiber Channel HBA, PCI-E x4 Emulex® LPe-12000 FC8 Single-Port 4 Gbps Fiber Channel HBA, PCI-E Gen 2 x4 Emulex® LPe-12002 FC8 Dual-Port 4 Gbps Fiber Channel HBA, PCI-E Gen 2 x4
Power Supply	One hot-pluggable non-redundant 750W power supply One hot-pluggable non-redundant 1100W power supply Two hot-pluggable redundant 750W power supplies Two hot-pluggable redundant 1100W power supplies	
Availability	Hot-pluggable hard drives, Hot-pluggable redundant power supply, internal dual SD module, ECC memory, interactive LCD screen	
Video	Matrox® G200eW w/ 8MB memory	
Remote Management	iDRAC6 Express (standard), iDRAC6 Enterprise and vFlash (upgrade optional)	
Systems Management	BMC, IPMI 2.0 compliant Dell OpenManage™ featuring Dell Management Console Unified Server Configurator Lifecycle Controller enabled: iDRAC6 Express, optional iDRAC6 Enterprise and vFlash	
Rack Support	ReadyRails™ sliding rails for toolless mounting in 4-post racks with square or unthreaded round holes, with support for optional tool-less cable management arm	
Operating Systems	Microsoft® Windows Server® 2003 R2 SP2, x86/x64 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 Citrix® XenServer® VMware® ESX/ ESXi 4.1 Red Hat® Enterprise Linux® Sun® Solaris™ For more information on the specific versions and additions, visit www.dell.com/OSsupport.	

[1] For hard drives, 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.

Intelligent Platforms at Dell.com/PowerEdge