Dell PowerEdge R715

With up to 32 processor cores and 16 DIMM slots, the Dell™ PowerEdge™ R715 server offers great price for performance, and balance for consolidation, virtualization, database and general business applications.

Outstanding performance, lasting value

The PowerEdge R715 features AMD Opteron™ processor technology, designed to handle your most demanding workloads with superior stability, efficiency and long-term value. With the goal of bringing value to your business by including the features and technology you need for your specific IT environment, Dell aims 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.

Simplified systems management, without compromise

The Dell OpenManage™ systems management portfolio includes Integrated Dell Remote Access Controller 6 (iDRAC6). This embedded feature helps IT administrators manage Dell servers in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent installed.

OpenManage iDRAC with Lifecycle Controller integrates and connects to leading third-party systems management solutions (such as those from Microsoft, VMware and BMC Software), so users can maintain a single point of control and capitalize on an existing systems management investment. OpenManage simplifies the lifecycle of deploying, updating, monitoring and maintaining Dell PowerEdge servers.

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

Feature	PowerEdge R715 Technical Specification	
Form factor	2U rack	
Processors	AMD Opteron™ 6100, 6200, and 6300 series processors	
Processor sockets	2	
Frontside bus or HyperTransport	HyperTransport-3 Links	
Cache	L2: 512K/core L3: 16MB (shared)	
Chipset	AMD (SR5650, SR5670 and SP5100)	
Memory	Up to 512GB (16 DIMM slots): 1GB/2GB/4GB/8GB/16GB/32GB DDR3 up to 1600MT/s	
I/O slots	**6 PCIe G2 slots + 1 storage slot:** Five x8 slots One x4 slot One x4 storage slot	
RAID controllers	**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 6GB/s SAS HBA
Drive bays	Up to six 2.5" hot-pluggable SAS, SATA or SSD drives	
Maximum internal storage[1]	Up to 6TB	
Hard drives	**Hot-plug hard drive options:** 2.5" SATA SSD, SAS (10K, 15K), nearline SAS (7.2K), SATA (7.2K), SAS 512e (15K)	
Network interface cards	Broadcom® BMC57710 10Base-T Copper Single-Port NIC, PCI-E x8 Broadcom 5709 IPV6 Dual-Port Gigabit Ethernet NIC, Copper, with 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 with 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 Brocade® CNA BR1020	**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, PCIe 2.0 x4 QLogic QLE2560 FC8 Single-channel HBA, PCIe 2.0 x4 QLogic QLE2660 FC16 Single-channel HBA, PCIe 3.0 x4 QLogic QLE2662 FC16 Dual-channel HBA, PCIe 3.0 x4 QLogic QLE8152 Dual-Port 10 Gbps FCoE Converged Network Adapter Emulex® LPe-1150 FC4 Single-Port 4 Gbps Fiber Channel HBA, PCIe x4 Emulex LPe-11002 FC4 Dual-Port 4 Gbps Fiber Channel HBA, PCIe x4 Emulex LPe-12000 FC8 Single-Port 4 Gbps Fiber Channel HBA, PCIe 2.0 x4 Emulex LPe-12002 FC8 Dual-Port 4 Gbps Fiber Channel HBA, PCIe 2.0 x4
Power supplies	One hot-pluggable non-redundant 750W or 1100W power supply Two hot-pluggable redundant 750W or 1100W power supplies	
Availability	Hot-pluggable hard drives, hot-pluggable redundant power supply, internal dual SD module, ECC memory, interactive LCD	
Video	Matrox® G200eW with 8MB memory	
Remote management	iDRAC6 Express (standard), iDRAC6 Enterprise and vFlash media (upgrade optional)	
Systems management	Dell OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator Lifecycle Controller enabled: iDRAC6 Express, optional iDRAC6 Enterprise, and vFlash media	
Rack support	ReadyRails™ sliding rails with optional cable management arm for 4-post racks (optional adapter brackets required for threaded hole racks)	
Operating systems	Microsoft® Windows Server® 2012 Microsoft Windows® Small Business Server 2011 Microsoft Windows Server 2003 R2 SP2, x86/x64 Microsoft Windows Server 2008 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V) Microsoft Windows HPC Server 2008 R2 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux® Oracle® Solaris™	**Virtualization options:** Citrix® XenServer® Microsoft Hyper-V, a server role in Microsoft Windows Server operating systems VMware® vSphere® and ESXi™ Red Hat Enterprise Virtualization® For more information on the specific versions and additions, visit Dell.com/OSsupport.
Featured database applications	Microsoft® SQL Server® solutions (see Dell.com/SQL) Oracle® database solutions (see Dell.com/Oracle)	

[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.

Learn More at Dell.com/PowerEdge