

Dell PowerEdge R410

The Dell™ PowerEdge™ R410 was developed with a purposeful design—energy-optimized technology, advanced virtualization capabilities, and simplified systems management.

The Dell PowerEdge R410 is a powerful and ultra-dense 2-socket 1U server that offers the performance of Intel® Xeon® processor 5500 and 5600 series, DDR3 memory, the availability of up to four hard drives (3.5" or 2.5"), and an exceptional value.

The PowerEdge R410 features include an available "open" HPCC (High Performance Computing Cluster) software stack, excellent diagnostics with an interactive LCD, and an optimum chassis depth of 24" for space-constrained data centers and HPCC environments.

Purposeful Design

The PowerEdge R410 takes advantage of Dell's outstanding system commonality and reliability. Quick-release rack latching and purposeful placement of interface ports and power supplies enable easy installation and redeployment. Robust metal hard drive carriers and an all steel control arm can further increase structural integrity.

The purposeful design of the PowerEdge R410 provides reduced complexity, showcasing clutter-free cable routing for more efficient airflow and easier maintenance. An LCD screen positioned by the front of the bezel provides aisle-level access to deploy the server.

Energy-Optimized Technology

The PowerEdge R410 features energy-tuned technologies that reduce power consumption while increasing performance capacity so you can compute more while consuming less. The energy-efficient power supply units are right-sized for system requirements, with improved system-level design efficiency, policy-driven power and thermal management, and highly efficient standards-based Energy Smart components. A robust fan cage design with single-pull fan modules provides efficient airflow and eases maintenance. Energy efficient and compact, the PowerEdge R410 is designed with value and reliability for HPCC environments.

Simplified Systems Management

The next-generation of Dell OpenManage™ suite of management tools is designed to provide efficient operations and standards-based commands that integrate with existing systems for effective control.

Dell Management Console (DMC) powered by Altiris™ from Symantec™ helps simplify operations and create stability by shrinking infrastructure management to one console. This console delivers a single view and a common data source into the entire infrastructure management. DMC has an easily extensible, modular foundation that can provide basic hardware management or more advanced functions, such as asset and security management. Dell Management Console is designed to reduce or eliminate manual processes, enabling you to save time and money for more strategic technology usage.

Secure and efficient, the Dell Lifecycle Controller delivers integrated manageability through a single access point. The Unified Server Configurator (USC) interface enables easy access to the tool which is embedded and integrated into the system for significant flexibility and capability. The Lifecycle Controller is an integrated interface for deploying operating systems with built-in driver installations, BIOS and firmware update and rollback, hardware configuration, and diagnostics.

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.

Energy efficient and compact, the PowerEdge R410 is designed with the performance and reliability needed for High Performance Computing.

Feature	Technical Specification	
Form Factor	1U rack	
Processors	Quad-core or six-core Intel® Xeon® processor 5500 and 5600 series	
Processor Sockets	2	
Front Side Bus or HyperTransport	Intel® QuickPath Interconnect (QPI)	
Cache	Up to 12MB	
Chipset	Intel® 5500	
Memory[1]	Up to 128GB (8 DIMM slots): 1GB/2GB/4GB/8GB/16GB DDR3 up to 1333MHz	
I/O Slots	**1 PCIe G2 slot + 1 storage slot:** One x16 slot One storage x4 slot	
RAID Controller	**Internal:** PERC H200 (6Gb/s) PERC H700 (6Gb/s) with 512MB battery-backed cache; 512MB, 1GB Non-Volatile battery-backed cache SAS 6/iR PERC 6/i with 256MB battery-backed cache PERC S100 (software based) PERC S300 (software based)	**External:** PERC H800 (6Gb/s) with 512MB of battery-backed cache; 512MB, 1GB Non-Volatile battery cache PERC 6/E with 256MB or 512MB of battery-backed cache **External HBAs (non-RAID):** 6Gbps SAS HBA SAS 5/E HBA LSI2032 PCIe SCSI HBA
Drive Bays	**Cabled or hot-swap options available:** 4 x 3.5" cabled hard drives or 4 x 3.5" hot-swap hard drives or 4 x 2.5" hot-swap hard drives and One slim type drive bay for DVD-ROM or DVD+/-RW	
Maximum Internal Storage	Up to 8TB	
Hard Drives[1]	**Hot-plug Hard Drive Options:** 2.5" SATA SSD, SAS (10K) 3.5" SAS (15K), nearline SAS (7.2K), SATA (7.2K) **Cabled Hard Drive Options:** 3.5" SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K)	
Communications	Embedded Dual-port Broadcom® NetXtreme® II 5716 Gigabit Ethernet Intel® Gigabit ET Dual Port Server Adapter and Intel® Gigabit ET Quad Port Server Adapter Intel® 10GbE NIC Intel® Single Port 1GbE NIC Intel® Dual Port 1GbE NIC	Intel® Quad Port 1GbE NIC Broadcom® 10GbE NIC Broadcom® Dual Port 1GbE NIC Brocade® CNA Dual-port adapter Brocade® FC4 and 8 GB HBAs Emulex® CNA iSCSI HBA stand up adapter OCE10102-IX-D
Power Supply	Non-Redundant, 480W (80+ BRONZE) Optional Redundant, 500W (80+ GOLD)	
Availability	Quad-pack LED Diagnostic or LCD diagnostic with hot-swap HDD chassis; TPM; optional hot-swap hard drives; optional hot-swap redundant power supply; optional PERC 6/i RAID controller with battery-backed cache; toolless hot-swap hard drive chassis	
Video	Integrated Matrox® G200	
Remote Management	BMC, IPMI2.0 compliant Optional iDRAC6 Enterprise, iDRAC6 Express	
Systems Management	Dell™ OpenManage™ Microsoft® System Center Essential (SCE) 2010 v2	
Rack Support	ReadyRails™ sliding rails with optional cable management arm for 4-post racks (optional adapter brackets required for threaded hole racks); ReadyRails™ static rails for 2-post and 4-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, x64 (includes Hyper-V™ v2) Microsoft® Windows® HPC Server 2008 Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® For more information on the specific versions and additions, visit www.dell.com/OSsupport.	
Featured Database Application	Microsoft® SQL Server® solutions (see Dell.com/SQL)	

[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.

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.

Learn more at Dell.com/PowerEdge

© 2011 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind.