



Dell PowerEdge R210

The ultra-compact, one-socket Dell™ PowerEdge™ R210 is a great first rack server for the small business or as a specialized application server for larger corporations.

The Dell PowerEdge R210 was developed with a purposeful design, energy-optimized technology, simplified systems management, and the flexibility that make it a great first rack server for the small business or as a specialized application server or edge server for larger corporations. Dell's entry 1-socket 1U rack server, the PowerEdge R210, offers value, the performance of Intel® Xeon® processors 3400 series, DDR3 memory, eSATA external storage expandability, and enterprise-class manageability.

Dell aims to add value to your business by including the features you need without a lot of the unnecessary extras. Our goal is to deliver value through tailored solutions based on industry standards, as well as purposeful, innovative design of our servers. The PowerEdge R210 was created to meet the needs of many IT environments with reliable, compact design, optional advanced systems management capabilities and energy efficiency.

Purposeful Design

The PowerEdge R210 follows the 11th generation PowerEdge portfolio specifications and features the same system design commonality and reliability true to our entire portfolio. All 11th generation PowerEdge servers are built to make your experience easier. We put all external ports, power supplies, and LED lights in the same location for familiar experience as well as easy installation and deployment.

Robust, metal hard drive carriers and organized cabling are designed to help improve component access and airflow across the server. The PowerEdge R210's design also provides a LED display positioned on the front of the server for ease of monitoring and troubleshooting condition of the server. It was designed to meet the needs of many IT environments with a short chassis to allow for flexible deployment almost anywhere, including space-constrained environments.

Energy-Optimized Technology

The PowerEdge R210 incorporates Energy Smart design using a low 250 watt power supply, highly efficient fans and logical component layout of the internal components which aids with airflow direction, helping to keep the server cool and reduce noise as much as possible. The result is a server with the smallest power footprint within the 11th generation PowerEdge server portfolio.

Simplified Systems Management

With the optional advanced embedded systems management capabilities of Lifecycle Controller, Dell brings comprehensive enterprise class manageability into the 1-socket space. Lifecycle Controller is delivered as part of the optional iDRAC Express or iDRAC Enterprise in the PowerEdge R210. The Lifecycle Controller helps to simplify administrator tasks by performing a comprehensive set of provisioning functions such as system deployment, system updates, hardware configuration and diagnostics from a single intuitive interface called Unified Server Configurator (USC) in a pre-OS environment. This helps eliminate the need to use and maintain multiple pieces of disparate CD/DVD media.

Also part of the Dell OpenManage™ portfolio is the Dell Management Console which is included with every Dell server and provides IT administrators with a consolidated console view of their IT infrastructure.

Built with cost-effective RAID options to further protect your valuable data, new eSATA external storage connectivity options, and the Intel® Xeon® processor technology, the PowerEdge R210 is an ideal entry 1 socket 1U rack for small businesses and larger offices needing flexibility and manageability in a small chassis.

Dell's value rack server, the PowerEdge R210, offers advanced management capabilities, low wattage power supply and external storage connectivity options in an ultra-compact chassis.

| Feature | Technical Specification |
|----------------------------------|---|
| Form Factor | 1U rack |
| Processors | Quad-core Intel® Xeon® processor 3400 series, Dual-core Intel® Celeron®, Dual-core Intel® Pentium®, and Dual-core Intel® Core™ i3 processor 500 series |
| Processor Sockets | 1 |
| Front Side Bus or HyperTransport | DMI (Direct Media Interface) |
| Cache | 8MB |
| Chipset | Intel® 3420 chipset |
| Memory ¹ | Up to 16GB (4 U-DIMMs): 1GB/2GB/4GB DDR3 1066MHz or 1333MHz |
| I/O Slots | 1 PCIe x16 G2 slot |
| RAID Controller | Internal: PERC H200 (6Gb/s) External: PERC H800 (6Gb/s) with 512MB of battery-backed cache; 512MB, 1GB Non-Volatile battery-backed cache PERC 6/E with 256MB or 512MB of battery-backed cache PERC H800 (6Gb/s) with 512MB Non-volatile cache External HBAs (non-RAID): 6Gbps SAS HBA SAS 5/E HBA LSI2032 PCIe SCSI HBA |
| Drive Bays | Cabled options available: Up to two 2.5"/ 3.5" SAS, SATA or SSD drives |
| Maximum Internal Storage | 2TB |
| Hard Drives ¹ | 3.5" SATA (7.2K rpm): 160GB, 250GB, 500GB, 1TB 3.5" Near-line SAS (7.2 rpm): 1TB, 2TB 3.5" SAS (10K rpm): 600GB 3.5" SAS (15K rpm): 146GB, 300GB, 450GB 2.5" SAS (10K rpm): 146GB, 300GB, 600GB 2.5" SSD: 25GB, 50GB |
| Communications | Broadcom® NetXtreme™ 5709 Dual Port Gigabit Ethernet NIC, Copper, w/TOE PCIe x4 Broadcom® NetXtreme™ 5709 Dual Port Gigabit Ethernet NIC, Copper, TOE/ISCI PCIe x4 Intel® PRO/ 1000PT Single Port Adapter, Gigabit Ethernet NIC, PCIe x1 Intel® Gigabit ET Dual Port Adapter, Gigabit Ethernet NIC, PCIe x4 Intel® Gigabit ET Quad Port Adapter, Gigabit Ethernet NIC, PCIe x4 |
| Power Supply | Single cabled power supply (250W) |
| Availability | Quad-pack LED diagnostics, ECC Memory, add-in RAID, TPM/C-TPM |
| Video | Matrox® G200eW w/ 8MB memory |
| Remote Management | iDRAC6 optional |
| Systems Management | BMC, IPMI 2.0 compliant Dell™ OpenManage™ featuring Dell Management Console Unified Server Configurator Lifecycle Controller enabled via optional iDRAC6 Express, iDRAC6 Enterprise, and vFlash |
| Rack Support | ReadyRails™ static rails for toolless mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded and 2-post (Telco) racks |
| Operating Systems | Microsoft® Windows® Small Business Server 2008 Microsoft® Windows® Essential Business Server 2008 Microsoft® Windows Server® 2008 R2 Foundation ² 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.

² Windows Server® 2008 R2 Foundation allows only 15 user accounts and requires certain Active Directory (AD) configurations. If not configured according to the product documentation, the software will generate warnings to correct the configuration. After a certain amount of time, the software will only run for one hour at a time until the configuration is corrected. For more information about these features review the product documentation located at <http://go.microsoft.com/fwlink/?LinkId=143551>

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.

See the benefits at Dell.com/PowerEdge

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