Dell PowerEdge M910

The Dell™ PowerEdge™ M-Series blade servers are designed to help cut operating expenses through energy efficiency, scalability, product flexibility, and efficient use of data center space.

The PowerEdge M910 provides significant performance and reliability in a scalable, full-height, four-socket blade server, allowing the deployment of large Enterprise-class applications as well as the ability to support heavy virtualization or workload consolidation in maximum density.

When combined with Dell's world-class storage, management, and support offerings, the result is a total enterprise solution that can help you optimize your IT environment and expenses.

Powerful

The PowerEdge M910 was designed to meet the needs of nearly any IT infrastructure or environment. Built with powerful Intel® Xeon® 7500 series processors and advanced systems management capabilities, the M910 is ideal for the demanding applications at the core of most data centers, such as large databases, virtualization and messaging infrastructure.

Memory is a critical component for performance, especially for heavy virtualization and high-end database needs. With this in mind, the PowerEdge M910 was designed with 32 DIMM slots allowing up to 512GB of ECC DDR3 RAM to be supported, allowing these memory-intensive applications to have ample resources at their disposal.

Scalable

Many servers may be able to take advantage of the large memory support that modern architectures provide, but only Dell offers FlexMem Bridge technology, which allows the M910 to seamlessly scale from 4GB to 512GB of DDR3 RAM in either two-socket or four-socket configurations. This patent-pending technology allows Dell to deliver a unique platform that can seamlessly scale as customer and application needs dictate, without having to "rip and replace" existing server infrastructure.

In addition to allowing significant memory and processor scaling capabilities, the compact form-factor of Dell blades allows the ability to scale down the amount of space that your core application servers require. By utilizing the PowerEdge M910, you can deploy up to eight next generation 4-socket servers in only 10U of rack space, which is less than 1/3 of the space required using traditional 4U four-socket rack servers.

Reliable

With the PowerEdge M910, Dell continues its unrelenting focus on reliability. The PowerEdge M910 utilizes the redundant power, cooling, and networking infrastructure provided by the Dell M1000e Blade enclosure. The PowerEdge M910 itself incorporates improvements and features for maximum protection against potential downtime, such as the ability to support three fully redundant fabrics per blade and the inclusion of a dual-media redundant embedded hypervisor.

The PowerEdge M910 also utilizes Intel Xeon 7500 series processors which are designed to automatically monitor, report, and recover from hardware errors in order to maintain data integrity and keep mission-critical services online.

As with all Dell PowerEdge servers, the M910 is manufactured with our "one-touch" factory build process. This process is designed to ensure just one person is responsible for the entire server build, resulting in greater quality control. In addition, every fully configured Dell server is tested (and re-tested) before it leaves the factory to ensure maximum reliability.

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Feature	Dell™ PowerEdge™ M910
Processors	Up to Four Intel® Xeon® 7500 series Quad-, Six-, or Eight-Core processors; or, Up to Two Intel® Xeon® 6500 series Quad-, Six-, or Eight-Core processors
Chipset	Intel® 7500
Memory	1GB/2GB/4GB/8GB/16GB ECC DDR3 Support for up to 512GBs using 32 x 16GB DIMMs
Drive Bays	Two 2.5" SAS/Solid State hot-swappable drives
Storage[1]	**Internal:** 2.5" SAS (10K, 15K) HDD 2.5" SATA (7.2K) HDD 2.5" SAS SSD 2.5" SATA SSD **External:** Dell™ EqualLogic™ Dell™ PowerVault™ Dell/EMC fibre channel and/or iSCSI storage
RAID Controller Options	PERC H200 Modular RAID Controller (6Gb/s) PERC H700 Modular RAID Controller (6Gb/s) with 512MB battery-backed cache
I/O Mezzanine Card Options	Fully populated mezzanine card slots and switch modules will yield 3 highly available, redundant I/O fabrics per blade. **1Gb & 10Gb Ethernet:** Broadcom® Dual-Port Gb Ethernet w/ TOE (BCM-5709S) Intel® Quad-Port Gb Ethernet Broadcom® Quad-Port Gb Ethernet (BCM-5709S) Intel® Dual-Port 10Gb Ethernet Broadcom® Dual-Port 10Gb Ethernet (BCM-57711) 10Gb Enhanced Ethernet & Converged Network Adapters (CEE/DCB): Intel® Dual-Port 10Gb Enhanced Ethernet (FcoE Ready for Future Enablement) Emulex® Dual-Port Converged Network Adapter (OCM10102-F-M)—Supports CEE/DCB 10GbE + FCoE Qlogic® Dual-Port Converged Network Adapter (QME8142)—Supports CEE/DCB 10GbE + FCoE **Fibre Channel:** QLogic® Dual-Port FC8 Fibre Channel Host Bus Adapter (HBA) (QME2572) Emulex® Dual-Port FC8 Fibre Channel Host Bus Adapter (HBA) (LPe1205-M) **InfiniBand:** Mellanox® Dual-Port ConnectX™ Quad Data Rate (QDR) InfiniBand
Operating Systems	Microsoft® Windows® Essential Business Server 2008 Microsoft® Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V™) Microsoft® Windows Server® 2008 R2, x86/x64 (includes Hyper-V™ v2) Microsoft® Windows® HPC Server 2008 Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® Sun® Solaris™ For more information on the specific versions and additions, visit www.dell.com/OSsupport. **Virtualization Options:** Microsoft® Windows Server® 2008, with Hyper-V™ VMware® vSphere™ Version 4.0 (including ESX v4.0/ ESXi v4.0)
Power Supply	Supplied by Dell™ M1000e Blade Chassis
Video	Matrox® G200eW w/ 8MB memory
Systems Management	BMC, IPMI2.0 compliant Dell™ OpenManage™ featuring Dell Management Console Unified Server Configurator Lifecycle Controller iDRAC6 Enterprise with optional vFlash Remote Management: iDRAC6 Enterprise with optional vFlash
Embedded Hypervisor	Optional Dual-Media Redundant Hypervisor

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