Dell PowerEdge M710

The Dell™ PowerEdge™ M710 delivers the exceptional bandwidth and performance today's data center environments require.

Strong IT foundation

To build the most efficient data center solutions, Dell sought input from IT professionals. You asked for reliability, scalability, energy efficiency, and a lower total cost of ownership (TCO). Our M710 blade servers deliver, becoming the cornerstone of a high-performance data center capable of keeping pace with your changing business demands.

Purposeful design

Today's data centers demand performance, high availability and redundancy. Designed with those needs in mind, the M710 blade server uses the Intel® Xeon® processor 5500 and 5600 series. These processors adapt to your software in real time, processing more tasks simultaneously. Using Intel® Turbo Boost Technology, the M-Series blades can increase performance during peak usage periods. When demand decreases, Intel® Intelligent Power Technology helps reduce operating costs and energy usage by proactively putting your server into lower power states.

Dell's innovative full-height M710 provides 18 DIMM slots and up to 288GB of total RAM, coupled with double the I/O capabilities of half-height blades and full-fabric redundancy on all three fabrics. The M710 blade server allows quick virtualization with software from leading industry vendors using an SD card or internal USB for embedded hypervisors.

Scalability for growth

To keep pace with changing requirements, you can effectively scale I/O application bandwidth with end-to-end 10Gbe or Fibre Channel solutions. Use NPIV and Port Aggregator modes on a variety of switches to virtualize Ethernet or Fibre Channel ports for integration into heterogeneous fabrics. By harnessing Dell's FlexIO modular switches, you can cost-effectively scale your I/O needs, adding ports and functionality through expansion modules—including 10Gb uplinks and stacking ports—instead of needing to buy complete new switches. Dell provides a range of solutions for building on your investment to avoid costly "rip and replace" scenarios.

Smart investment

The M610 is a foundational component of smart M-Series blade solutions that can help protect your infrastructure investments, simplify your IT environment, and drive real and sustainable savings in power efficiency and productivity. Features include:

- A future-ready, passive midplane capable of supporting multiple generations of blade servers and a full array of upcoming I/O technologies
- FlexIO eliminates "rip and replace" blade switch upgrades; modularity is built into the switches
- FlexAddress™ technology simplifies efforts and interactions between server and networking teams by providing slot-assigned, persistent WWN/iSCSI/MAC addresses for maintenance, without additional management tools or proprietary hardware
- Energy Smart Technologies, including ultra-efficient fans and power supplies for outstanding energy efficiency

With savings in time and money previously needed for maintenance, you free up resources that can be used for true innovation.

Simplified systems management

The next generation Dell™ OpenManage™ suite offers enhanced operations and standards-based commands designed to integrate with existing systems for effective control.

Lifecycle controller

Lifecycle Controller is the engine for advanced systems management integrated on the server. Lifecycle Controller simplifies administrator tasks so you can perform a complete 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 eliminates the need to use and maintain multiple pieces of disparate CD/DVD media.

The PowerEdge M710 offers a robust and scalable enterprise platform that can help you simplify and save on IT expenses.

Feature	PowerEdge M710 technical specification
Processors	Quad-core or six-core Intel® Xeon® processors 5500 and 5600 series
Chipset	Intel 5520
Memory[1]	Up to 288GB (18 DIMM slots): 1GB/2GB/4GB/8GB/16GB ECC DDR3 up to 1333MT/s
Drive bays	Four 2.5" SAS/Solid State hot-pluggable drives
Storage	**Hot-plug hard drive options:** 2.5" SAS SSD, SATA SSD, SAS (15K, 10K), nearline SAS (7.2K) **External storage:** For information about Dell external storage options, visit Dell.com/Storage.
RAID controller options	**Internal:** PERC H200 Modular (6Gb/s) PERC H700 Modular (6Gb/s) with 512MB battery-backed cache SAS 6/iR Modular CERC 6/i Modular PERC 6/i Modular with 256MB battery-backed cache
I/O mezzanine card options	**1Gb and 10Gb Ethernet:** Broadcom® Dual-Port 1Gb Ethernet with TOE (BCM-5709S) Intel Quad-Port 1Gb Ethernet Broadcom Quad-Port 1Gb Ethernet Broadcom Dual-Port 10Gb Ethernet (BCM-57711) **10Gb Enhanced Ethernet and Converged Network Adapters (CEE/DCB):** Intel Dual-Port 10GB Enhanced Ethernet Server Adapter X520-DA2 (FCoE Ready for Future Enablement) QLogic® Dual-Port CNA (QME8142)—supports CEE/DCB 10GbE + FCoE QLogic Dual-Port CNA (QME8242-k)—supports 10GbE + NPAR Brocade® BR1741M-k Dual-Port Mezzanine CNA **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) Emulex 8 or 4 Gb/s Fibre Channel Pass-Through Module **InfiniBand:** Mellanox® ConnectX® Dual-Port Quad Data Rate (QDR) and Dual Data Rate (DDR) InfiniBand
Operating systems	Microsoft® Windows Server® 2012 Microsoft Windows Server 2012 Essentials Microsoft Windows Server 2008 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V v2) Microsoft Windows® HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux® Oracle® Solaris™ **Virtualization options:** Citrix® XenServer® Microsoft Hyper-V through Microsoft Windows Server 2008 VMware® vSphere® ESX™ 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)
Power supply	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis
Video	Matrox® G200 with 8MB of cache
Systems management	Dell OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator Lifecycle Controller iDRAC6 Enterprise with optional vFlash media Remote Management: iDRAC6 Enterprise with optional vFlash media Microsoft System Center Essential (SCE) 2010 v2
Embedded hypervisor	Optional Embedded SD Media

For more information about the Dell blade solution, see the PowerEdge M1000e Technical Guide or the M1000e Blade Chassis Specification Sheet.

[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.

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.

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