



# 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 192GB 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	Technical Specifications
Processors	Quad-core or six-core Intel® Xeon® processors 5500 and 5600 series
Chipset	Intel® 5520
Memory <sup>1</sup>	Up to 192GB (18 DIMM slots): 1GB/2GB/4GB/8GB/16GB ECC DDR3 up to 1333MHz
Drive Bays	Four 2.5" SAS/Solid State hot-swappable drives
Storage <sup>1</sup>	<p><b>Hot-plug Hard Drive Options:</b> 2.5" SAS SSD, SATA SSD, SAS (15K, 10K), nearline SAS (7.2K)</p> <p><b>Maximum Internal Storage:</b> Up to 4TB per blade</p> <p><b>External Storage:</b> For information about Dell external storage options, visit <a href="http://Dell.com/Storage">Dell.com/Storage</a>.</p>
RAID Controller Options	<p><b>Internal:</b> PERC H200 Modular (6Gb/s) PERC H700 Modular (6Gb/s) with 512MB battery-backed cache; 512MB, 1GB Non-Volatile battery-backed cache SAS 6/iR Modular CERC 6/i Modular PERC 6/i Modular with 256MB battery-backed cache</p>
I/O Mezzanine Card Options	<p><b>1Gb &amp; 10Gb Ethernet:</b> Dual-Port Broadcom® Gb Ethernet w/ TOE (BCM-5709S) Quad-Port Intel® Gb Ethernet (BCM-82576) Quad-Port Broadcom® Gb Ethernet (BCM-5709S) Dual-Port Broadcom® 10Gb Ethernet (BCM-57711) Brocade® BR1741M-k Dual-Port Mezzanine CNA</p> <p><b>10Gb Enhanced Ethernet &amp; Converged Network Adapters (CEE/DCB):</b> Dual Port Intel® 10Gb Enhanced Ethernet Server Adapter X520-DA2 (FcoE Ready for Future Enablement) Dual-Port Qlogic® Converged Network Adapter (QME8142) - Supports CEE/DCB 10GbE + FCoE</p> <p><b>Fibre Channel:</b> Dual-Port QLogic® FC8 Fibre Channel Host Bus Adapter (HBA) (QME2572) Dual-Port Emulex® FC8 Fibre Channel Host Bus Adapter (HBA) (LPe1205-M) Emulex® 8 or 4 Gb/s Fibre Channel Pass-Through Module</p> <p><b>InfiniBand:</b> Dual-Port Mellanox® ConnectX Quad Data Rate (QDR) InfiniBand Dual-Port Mellanox® ConnectX Dual Data Rate (DDR) InfiniBand</p>
Operating Systems	<p>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® Oracle® Solaris™</p> <p><b>Virtualization Options:</b> Citrix® XenServer™ Microsoft® Hyper-V™ through Microsoft® Windows Server® 2008 VMware® vSphere™ 4.1 (including VMware ESX® 4.1 or VMware ESXi™ 4.1)</p> <p>For more information on the specific versions and additions, visit <a href="http://www.dell.com/OSsupport">www.dell.com/OSsupport</a>.</p>
Featured Database Applications	<p>Microsoft® SQL Server® solutions (see <a href="http://Dell.com/SQL">Dell.com/SQL</a>) Oracle® database solutions (see <a href="http://Dell.com/Oracle">Dell.com/Oracle</a>)</p>
Power Supply	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis
Video	Matrox® G200 with 8MB of cache
Systems Management	<p>Dell™ OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator Lifecycle Controller</p> <p>iDRAC6 Enterprise with optional vFlash Remote Management: iDRAC6 Enterprise with optional vFlash Microsoft® System Center Essential (SCE) 2010 v2</p>
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](#).

<sup>1</sup> 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.

Discover more at [Dell.com/Blades](http://Dell.com/Blades)

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