Dell PowerEdge M710HD

The Dell™ PowerEdge™ M710HD blade server helps you run business applications efficiently, reduce your data center footprint, ease data management and trim system maintenance time.

The M710HD is a data center virtualization-optimized blade that offers tremendous IO throughput, maximized memory density, and robust optional Intel® Xeon® 5600 processing power, all in an ultra-dense form factor with enterprise-class high availability. The M710HD is the first Dell M-Series server with a flexible network daughtercard (NDC) designed to allow for future integrated connectivity options.

Rack-Dense Performance

Unleash the power of massive IO throughput, core-rich Intel® Xeon® processors and an abundance of DD3 DIMMs on your toughest data center workloads. With massive I/O throughput, powerful multi-core processing and ultra-high-density memory options, the PowerEdge M710HD blade server can let you flex your data center muscles while taking on the toughest workloads. Flexible and robust IO deployment is achievable through multiple iSCSI, Ethernet, FibreChannel and InfiniBand options with additional future integrated network connectivity through the network daughtercard (NDC). Processing power from up to 12 Intel® Xeon® 5600 series cores and maximized RAM density with 18 DIMM slots allows for condensed full-height blade horsepower and cost-efficient DDR3 memory scaling in an ultra-dense form factor.

Efficiency Without Compromise

Increase your capability to deploy virtualized solutions that can reduce power consumption while increasing performance capacity. The expanded addressable memory in the PowerEdge M710HD allows you to utilize more virtual machines from your existing hypervisor licensing, helping you save money and increase your virtualized deployments using existing resources. Optimized airflow design coupled with high-efficiency fans and power supplies enable the Dell M1000e blade enclosure to effectively power and cool PowerEdge M710HD servers while helping to reduce overall power draw. This allows you to reclaim power for use elsewhere in your data center, save on operational costs, and help the environment.

Enterprise-Class Reliability and Management

Spend more time on your business and less on maintaining your IT with embedded system management features on the PowerEdge M710HD and the Chassis Management Controller (CMC). The PowerEdge M710HD blade server is designed to ease your mind and reduce your operating

costs delivering the closest thing to a worry-free data center. Optional failsafe embedded hypervisors and HDD fault tolerance through a hardware RAID controller offer protective redundancy that safeguards your organization's data from loss or corruption. Simplified systems management is achieved through automated discovery which automates configuration of new hardware and enables pre-provisioning of LAN/SAN resources.

In addition, one-to-many updating through the CMC and Virtual File Share simplifies the update process for BIOS, firmware and drivers without additional software. Proactive management provides immediate access to system status, issues and alerts through a single, easy-to-use interface that includes one-click key functions to help quickly resolve issues.

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.

> Designed for enterprise database and virtualization deployments, the PowerEdge M710HD features tremendous I/O throughput, maximized memory density and robust processing power.

Feature	Technical Specifications	
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 1333MHz	
Drive Bays	Two 2.5" SAS/Solid State hot-swappable drives	
Storage[1]	**Hot-plug Hard Drive Options:** 2.5" SATA SSD, SAS (15K, 10K) **Maximum Internal Storage:** Up to 2TB per blade **External Storage:** For information about Dell external storage options, visit Dell.com/Storage.	
RAID Controller Options	PERC H200 Integrated SAS Controller (6Gb/s)	
I/O Mezzanine Card Options	Fully populated mezzanine card slots and switch modules will yield 3 redundant I/O fabrics per blade. **1Gb & 10Gb Ethernet:** Dual-Port Broadcom® Gb Ethernet w/ TOE (BCM-5709S) Quad-Port Intel® Gb Ethernet Quad-Port Broadcom® Gb Ethernet (BCM-5709S) Dual-Port Intel® 10Gb Ethernet Dual-Port Broadcom® 10Gb Ethernet (BCM-57711) Brocade® BR1741M-k Dual-Port Mezzanine CNA **Infiniband:** Dual-Port Mellanox® ConnectX-2™ Dual Data Rate (DDR) and Quad Data Rate (QDR) InfiniBand	**10Gb Enhanced Ethernet & Converged Network Adapters (CEE/DCB/FCoE):** Dual-Port Intel® 10Gb Enhanced Ethernet (FCoE Ready for Future Enablement) Dual-Port Emulex® Converged Network Adapter (OCM10102-F-M)—supports CEE/DCB 10GbE + FCoE Dual-Port Qlogic® Converged Network Adapter (QME8142)—supports CEE/DCB 10GbE + FCoE Dual-Port Qlogic Converged Network Adapter (QME8242-k)—supports 10GbE + NPAR **Fibre Channel:** 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
Communications	Two embedded Broadcom® NetXtreme II™ 5709 Gigabit Ethernet NICs with failover and load balancing. TOE (TCP/IP Offload Engine) supported on Microsoft® Windows Server® 2003 SP1 or higher with Scalable Networking Pack. iSCSI Offload supported on Windows Server® 2003 SP1 or higher, Red Hat® Enterprise Linux® 5, and SUSE® Linux® Enterprise Server 10. Scalable Networking Pack for Windows Server® 2003 is not required. Boot from SAN (iSCSI and FC) supported Optional add-in NICs: See I/O Mezzanine Card Options Optional add-in HBAs: See I/O Mezzanine Card Options	
Communications Options	Four embedded Broadcom® 5709S Gigabit NIC with failover and load balancing. TOE (TCP/IP Offload Engine) supported on Microsoft® Windows Server® 2003 SP1 or higher with Scalable Networking Pack. iSCSI Offload supported on Windows Server® 2003 SP1 or higher, Red Hat® Enterprise Linux® 5, and SUSE® Linux® Enterprise Server 10. Scalable Networking Pack for Windows Server® 2003 is not required. Boot from SAN (iSCSI and FC) supported Optional add-in NICs: See I/O Mezzanine Card Options Optional add-in HBAs: See I/O Mezzanine Card Options	
Operating Systems	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™ 4.1 (including VMware ESX® 4.1, VMware ESXi™ 4.1, or ESXi 5.0) 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)	
Management Options	**Dell™ OpenManage™ software tools** Integration with 3rd party management solutions through the Dell Certified Partner Program **Altiris™ Deployment Solution for Dell Blade Servers** Designed to help reduce deployment time from hours to minutes	**Integrated Dell Remote Access Controller (iDRAC)** Out-of-band alerting, status, inventory, and troubleshooting through Secure Web GUI/CLI (telnet/SSH) **Console Redirection** vMedia (virtual media)—Map optical or hard drives to the blade from remote workstations over a network vKVM (virtual KVM) out-of-band remote console redirection—supports Java or ActiveX plug-ins IPMI 2.0 support
Power Supply	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis	
Video	Integrated Matrox® G200 w/ 8MB memory	
Systems Management	Dell™ OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator	Lifecycle Controller iDRAC6 Enterprise with optional vFlash

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.

Discover more at Dell.com/Blades