Dell PowerEdge M915

The Dell™ PowerEdge™ M915 is a 4-socket full-height blade server ideal for mission-critical applications needing maximum I/O scalability and performance.

Maximum workload performance

Input, process, analyze and report data on the same platform; consolidate servers; and scale during peak workloads. With up to 64 processor cores, the Dell PowerEdge M915 offers you the performance you need to run your important business applications and workloads. Get the ability to run robust virtual machines (VMs), maximize the number of virtual machines being run per server, and reap all the benefits of consolidation. The M915 can also help increase database performance by taking advantage of the high processor core count to run more tasks simultaneously.

Boost business performance

The PowerEdge M915 offers robust AMD Opteron™ processors designed to:

- Deliver up to 64 processor cores for optimal 4-socket performance with 2-socket value and provide the essential features needed to operate your consolidated infrastructure efficiently.
- Give you the ability to monitor power and thermals at the processor level and assist with platform efficiency.
- Offer vast pools of processor cores to be deployed, which is ideal for assignment to virtualized servers. A fully loaded M1000e chassis with eight PowerEdge M915 blade servers running up to 16-core AMD Operton 6100, 6200, and 6300 series processors can yield up to 512 processor cores per chassis or 51.2 cores per U.

Throughput, throughput, throughput

Unleash the potential of your consolidated VMs with more I/O throughput.

- Maximizing both 10GbE and GbE port counts provides your virtualized applications the dedicated bandwidth they need in I/O-intensive environments.
- Enabling the choice of fabric and vendor can enhance your flexibility to adopt and deploy networks at your own pace.
- Using up to six dual-port 10GbE network cards can bring the total aggregate throughput into a single server to an amazing 120 Gbps.

An integrated, flexible network daughtercard enables a choice of embedded network adapters. Select either GbE network interface cards (NICs) or 10Gb converged network adapters (CNAs) to attach to M1000e I/O modules, such as the Dell PowerConnect™ M8428-k converged network switch. I/O traffic can then flow to your existing Dell or third-party switching infrastructure.

Enterprise-class manageability and efficiency

Spend more time creating business value and less on planning, deploying and managing IT. Spend less money keeping the lights on and cooling servers, reclaiming more resources for strategic business needs.

- **One-to-many updating:** The Chassis Management Controller and Lifecycle Controller simplify the update process for BIOS, firmware and drivers on a one-to-many basis without additional software. Multi-chassis management provides one console access to several blade enclosures.
- **Industry leading power and cooling:** Efficient power supplies (fully redundant up to 92+%) utilize minimal power without compromising productivity. High-efficiency fans and intuitive chassis airflow ducting drive enterprise-class power consumption draw.
- **Enterprise-class high-availability:** Dual optional failsafe embedded hypervisors and hard drive fault tolerance through the hardware RAID controller (PERC) offer data-protective redundancy that safeguards your organization from IT loss or corruption.

Maximized performance and bandwidth for mission-critical workloads and applications

Feature	PowerEdge M915 technical specification
Processors	AMD Opteron™ 6100, 6200 and 6300 series processors
Chipset	AMD (SR5670 and SP5100)
Memory[1]	Up to 1TB (32 DIMM slots): 1GB/2GB/4GB/8GB/16GB/32GB DDR3 up to 1333MT/s
Drive bays	Two 2.5" SAS/solid state hot-pluggable drives
Storage	**Hot-plug hard drive options:** 2.5" SATA SSD, SATA SSD, SAS (15K, 10K) **External storage:** For information about Dell external storage options, visit Dell.com/Storage.
RAID controller options	PERC H200 Modular (6Gb/s) PERC H700 Modular (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. **Ethernet:** Broadcom® Dual-Port 1Gb Ethernet with TOE (BCM-5709S) Intel® Dual-Port 10Gb Ethernet Broadcom Dual-Port 10Gb Ethernet (BCM-57711) **10Gb Enhanced Ethernet:** Intel Dual-Port 10Gb Enhanced Ethernet (FCoE Ready) QLogic® QME8142 Dual-Port CNA (10Gb Enhanced Ethernet + FCoE) Brocade® BR1741M-k Dual-Port Mezzanine CNA Broadcom 57712-k Dual-Port Converged Network Daughter Card (NDC) (supports CEE/DCB 10GbE + NPAR + FCoE + iSCSI-TLV) **Fibre Channel:** QLogic Dual-Port FC16 HBA (QME2662) Emulex® Dual-Port FC16 HBA (LPm16002B-D) QLogic Dual-Port FC8 Fibre Channel Host Bus Adapter (HBA) (QME2572) Emulex Dual-Port FC8 Fibre Channel HBA (LPe1205-M) Emulex 8 or 4 Gb/s Fibre Channel Pass-Through Module **InfiniBand:** Mellanox® ConnectX®-3 Dual Port FDR10 Mellanox ConnectX Dual-Port QDR
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, x64 (includes Hyper-V v2) Microsoft Windows® HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux® **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	Integrated Matrox® G200eW with 8MB memory
Remote management	iDRAC6 Enterprise (standard)
Systems management	BMC, IPMI 2.0 compliant Dell OpenManage™ Unified Server Configurator Lifecycle Controller iDRAC6 Enterprise with optional vFlash media Chassis Management Controller
Embedded hypervisor	Optional Dual-Media Redundant Hypervisor

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.

Learn more at Dell.com/PowerEdge