PowerEdge M620

An exceptionally feature-rich, two-socket blade server, the Dell PowerEdge M620 is designed for maximum performance combined with extreme density and power efficiency.

Designed for your taxing workloads, such as email, database and virtual environments, the Dell PowerEdge M620 blade server is an ideal blend of density, performance, efficiency and scalability. The M620 delivers unprecedented memory density and superb performance with no compromise on enterprise-class features.

Accomplish more

Bring impressive new capabilities to your data center with the PowerEdge M620, which offers a memory capacity of up to 768GB of RAM along with scalable I/O capabilities. Powered by Intel® Xeon® E5-2600 or E5-2600 v2 processors and Dell's unique Select Network Adapter, our flexible NIC technology, the M620 provides the performance you require and allows you to allocate your network throughput to match your application needs.

Designed for your hyper-dense environments

Dell's exclusive failsafe virtualization technology provides redundant media for hypervisor failover to keep your critical virtual environments running. Your virtualization environments demand high memory capacity in order to maximize the number of virtual machines per server, and the PowerEdge M620 was designed with this in mind. If you are running high-performance computing (HPC) application clusters, the M620 provides you with outstanding computational density and powerful processing capability in a compact form factor.

Improve operational efficiency

The Dell OpenManage™ systems management portfolio includes Integrated Dell Remote Access Controller 7 (iDRAC7) with Lifecycle Controller. This embedded feature helps IT administrators manage Dell servers in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent installed.

OpenManage iDRAC with Lifecycle Controller integrates and connects to leading third-party systems management solutions (such as those from Microsoft, VMware, and BMC Software), so users can maintain a single point of control and capitalize on an existing systems management investment. OpenManage simplifies the lifecycle of deploying, updating, monitoring, and maintaining Dell PowerEdge servers.

The PowerEdge M-series blade portfolio

Implement the right combination of features and performance scalability with the PowerEdge M-series blade servers, which can handle tough workloads in a data center of any size. In addition to the world-class management features provided in all PowerEdge servers, the M620 also takes advantage of the capabilities of the Dell PowerEdge M1000e's Chassis Management Controller (CMC). The CMC allows M-series blades to be managed individually or as groups, in single or multiple chassis, and within a data center or in multiple geographically dispersed locations around the globe without requiring an agent or additional hardware. PowerEdge M-series blade servers use the redundant power, cooling, and networking infrastructure provided by the M1000e blade enclosure, which is exceptionally easy to deploy and manage, and maximizes power and cooling efficiency.

PowerEdge M620

- Up to 24 DIMMs
- Powered by Intel Xeon E5-2600 v2 processors
- Hyper-dense design
- Flexible and scalable networking

Feature	PowerEdge M620 technical specification	
Form factor; enclosure	Half-height blade; Dell™ PowerEdge™ M1000e Blade Enclosure	
Processors	Intel® Xeon® processor E5-2600 and E5-2600 v2 product families	
Internal interconnect	Intel QuickPath Interconnect (QPI): 6.4GT/s, 7.2GT/s, 8.0GT/s	
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12	
Memory[1]	Up to 768GB (24 DIMM slots): 4GB/8GB/16GB/32GB DDR3 up to 1866MT/s Up to 1.5TB (24 DIMM slots): 64GB DDR3 LRDIMM up to 1600MT/s (with Intel Xeon processor E5-2600 v2 product family only)	
Chipset	Intel C602	
Video	Integrated Matrox® G200	
Primary storage	**Hot-plug hard drive options:** Up to 2 x 2.5" Express Flash PCIe SSD, SATA HDD/SSD, or SAS HDD/SSD **Maximum internal storage:** Up to 2.4TB with 2 x 2.5" SAS (10K) 1.2TB hard drives **External storage:** for information about Dell external storage options, visit Dell.com/Storage	
USB ports	2 front, 1 internal	
I/O options	Dell Select Network Adapter (NDC) options: Broadcom® 57810S-k dual-port 10Gb KR Blade NDC Broadcom 57840 quad-port KR Blade Converged NDC Intel X520-k dual-port 10Gb KR Blade NDC QLogic® QMD8262-k dual-port 10Gb NDC **Fibre Channel:** QLogic QME2662 (FC16) Emulex LPm16002B-D (FC16) QLogic QME2572 (FC8) Emulex® LPe1205-M (FC8)	**1Gb/10Gb adapters:** Brocade® BR1741M-k dual-port 10Gb CNA QLogic QME8262-k dual-port 10Gb KR CNA Broadcom 57810S-k dual-port 10Gb KR Intel Ethernet X520-K dual-port 10Gb Intel I350 quad-port 1Gb Broadcom 5719 quad-port 1Gb **InfiniBand:** Mellanox® ConnectX®-3 dual-port FDR10 Mellanox ConnectX-3 dual-port FDR Mellanox ConnectX-3 dual-port QDR Mellanox ConnectX-3 Dual Port 10GbE KR blade
I/O slots	Fully populated mezzanine card slots and switch modules yield 3 redundant I/O fabrics per blade	
RAID controller	Internal controllers: PERC S110 (software RAID) PERC H310	PERC H710 PERC H710P
Power supplies and fans	Supplied by Dell PowerEdge M1000e Blade Enclosure	
Remote management	iDRAC7 with Lifecycle Controller for Blades (default), iDRAC7 Enterprise with Lifecycle Controller (upgrade option)	
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Integrations: • Dell OpenManage Integration Suite for Microsoft System Center • Dell OpenManage Integration for VMware® vCenter	Dell OpenManage Mobile Dell OpenManage Power Center Dell OpenManage Connections: • HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management • Dell OpenManage Plug-in for Oracle® Database Manager
Operating systems	Microsoft Windows Server® 2012 Microsoft Windows Server 2012 R2 (includes Hyper-V®) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V) Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux®	**Virtualization options:** Citrix˙ XenServer˙ VMware˙ vSphere˙ ESXi™ Red Hat Enterprise Virtualization˙ For more information on the specific versions and additions, visit Dell.com/OSsupport.
Embedded hypervisor	Two internal SD cards dedicated for hypervisor One dedicated for vFlash media support	
ENERGY STAR® qualified	Earning ENERGY STAR Enterprise Server designation, the Dell PowerEdge M620 Blade Server is qualified in the Dell PowerEdge M1000e chassis.	

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

[1] GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

Global services and support

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

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