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Dell PowerEdge M620

An exceptionally feature-rich 2-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 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

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

Help manage your servers using the Dell OpenManage™ portfolio, including Dell's exclusive Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller. iDRAC, an embedded systems management feature, allows Dell servers to be managed in physical, virtual, local and remote environments, either in-band or out-of-band and with or without a systems management software agent. OpenManage also integrates and connects to leading third-party systems management solutions you may already use, allowing you to maintain a single point of control and capitalize on your existing investment.

OpenManage simplifies the lifecycle of deploying, updating, monitoring and maintaining your Dell PowerEdge servers.

The PowerEdge M-series blade server line

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 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 a single 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 processors
- Hyper-dense design
- Flexible and scalable networking
- Leverages M1000e enclosure

| Feature | PowerEdge M620 technical specification |
|--|--|
| Form factor; enclosure | Half-height blade; Dell™ PowerEdge™ M1000e Blade Enclosure |
| Processors | Intel® Xeon® processor E5-2600 product family |
| Internal interconnect | Intel QuickPath Interconnect (QPI): 6.4 GT/s; 7.2 GT/s; 8.0 GT/s |
| Cache | 2.5MB per core; core options: 2, 4, 6, 8 |
| Memory¹ | Up to 768GB (24 DIMM Slots): 2GB/4GB/8GB/16GB/32GB DDR3 up to 1600MHz |
| Chipset | Intel C600 |
| Video | Integrated Matrox® G200 |
| Primary storage¹ | Hot-plug hard drive options: Up to two 2.5" PCIe SSD, SATA HDD/SSD, or SAS HDD/SSD Maximum internal storage: Up to 1.2TB External storage: for information about Dell external storage options, visit Dell.com/Storage |
| USB ports | 2 front, 1 internal |
| I/O mezzanine card options | Ethernet: Broadcom® Quad Port 5719 Broadcom Dual Port Gb Ethernet with TOE (BCM-5709S) Intel® Quad Port Gb Ethernet Broadcom Quad Port Gb Ethernet (BCM-5709S) Intel Dual Port 10Gb Ethernet Broadcom Dual Port 10Gb Ethernet (BCM-57711) Brocade® BR1741M-k Dual Port Mezzanine CNA 10Gb Enhanced Ethernet & Converged Network Adapters (CEE/DCB/FCoE): Intel Dual Port 10Gb Enhanced Ethernet (FCoE Ready for Future Enablement) Emulex® Dual Port Converged Network Adapter (OCM10102-F-M)—supports CEE/DCB 10GbE + FCoE QLogic® Dual Port Converged Network Adapter (QME8142)—supports CEE/DCB 10GbE + FCoE QLogic Dual Port Converged Network Adapter (QME8242-k)—supports 10GbE + NPAR 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) Infiniband: Mellanox® Dual Port Quad Data Rate (QDR) and FDR InfiniBand |
| I/O slots | Fully populated mezzanine card slots and switch modules will yield 3 redundant I/O fabrics per blade |
| Dell Select Network Adapter (Network Daughter Card) | 2 x 10GbE KR Broadcom (BCM57810S bNDC) 2 x 10GbE KR QLogic bNDC 2 x 10GbE KR Intel i520 bNDC |
| 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 and Dell Management Console Dell OpenManage Power Center Dell OpenManage Connections: <ul style="list-style-type: none"> OpenManage Integration Suite for Microsoft® System Center Dell plug-in for VMware® vCenter™ HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management |
| Operating systems | Microsoft Windows Server® 2008 R2 SP1, x64 (includes Hyper-V™ v2) Microsoft Windows® Small Business Server 2011 SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux Virtualization options: Citrix® XenServer™ VMware® vSphere™ 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 |
| For more information about the Dell blade solution, see the PowerEdge M1000e Technical Guide or the M1000e Blade Chassis Specification Sheet. | |

¹ 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.

Global services and support

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 total cost of ownership.

Learn more at Dell.com/Partner/PowerEdge

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