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# Dell PowerEdge M520

The Dell™ PowerEdge™ M520 2-socket, half-height blade server delivers an extraordinary balance of value and performance for mainstream business applications, with no compromise on enterprise-class features.

Enjoy excellent performance and exceptional value with the Dell PowerEdge M520's well-balanced processing capabilities and memory capacity in a compact half-height blade form factor. With up to 16 processor cores and up to 12 DIMMs of RAM, the scalability and performance of the M520 makes it a natural fit for general business applications such as e-mail and databases, as well as mid-tier virtual environments.

## Achieve business continuity

Ensure maximum uptime with the fully redundant M-series power, cooling, and networking infrastructure, designed to provide the stability and resiliency our customers demand for Enterprise-class deployments. The M520's design matches Dell's commitment to reliability, with features such as multiple hardware RAID choices and our unique failsafe virtualization technology, which utilizes redundant SD media to provide failover capabilities for embedded hypervisors.

## 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 you to manage Dell servers in physical, virtual, local and remote environments, either in-band or out-of-band, 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.

## 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 any size data centers. In addition to the world-class management features provided in all PowerEdge servers, the M520 also takes advantage of the capabilities of the 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 Dell M1000e blade enclosure, which is exceptionally easy to deploy and manage, and maximizes power and cooling efficiency.

## PowerEdge M520

- Up to 12 DIMMs
- Mainstream performance
- Hot-pluggable hard drives and hardware RAID
- Impressive systems management capabilities
- Leverages M1000e enclosure

Feature	PowerEdge M520 technical specification
Form factor	Half-height blade
Enclosure	M1000e enclosure
Processors	Intel® Xeon® processor E5-2400 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
Memory <sup>1</sup>	Up to 192GB (12 DIMM slots); 2GB/4GB/8GB/16GB DDR3 up to 1600MHz
Chipset	Intel C600 series
Primary storage <sup>1</sup>	<b>Hot-plug hard drive options:</b> Up to two SATA HDD/SSD or SAS HDD/SSD <b>External storage:</b> For information about Dell external storage options, visit <a href="http://Dell.com/Storage">Dell.com/Storage</a> .
USB ports	2 front, 1 internal (with optional RIPS card)
I/O mezzanine card options	<p><b>Ethernet:</b> 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 (BCM057711)</p> <p><b>10Gb Enhanced Ethernet and Converged Network Adapters (CEE/DCB/FCoE):</b> 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</p> <p><b>Fibre channel:</b> QLogic Dual Port FC8 Fibre Channel Host Bus Adapter (HBA) (QME2572) Emulex Dual Port FC8 Fibre Channel Host Bus Adapter (HBA)</p>
I/O slots	Fully populated mezzanine card slots and switch modules yield three redundant I/O fabrics per blade.
RAID controller	<p><b>Internal controllers:</b> PERC S110 (software RAID) PERC H310 PERC H710 PERC H710P</p>
Power supplies and fans	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis
Remote management	iDRAC7 with Lifecycle Controller for Blades (default), iDRAC7 Enterprise with Lifecycle Controller (upgrade)
Systems management	<p>IPMI 2.0 compliant Dell OpenManage™ Essentials and Dell Management Console Dell OpenManage Power Center Dell OpenManage Connections:</p> <ul style="list-style-type: none"> <li>• OpenManage Integration Suite for Microsoft® System Center</li> <li>• Dell plug-in for VMware® vCenter™</li> <li>• HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management</li> </ul>
Operating systems	<p>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</p> <p><b>Virtualization options:</b> Citrix® XenServer™ VMware® vSphere For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a>.</p>
Embedded hypervisor	Two internal SD cards dedicated for hypervisor One dedicated for vFlash media support
<b>For more information about the Dell blade solution, see the PowerEdge M1000e Technical Guide or the M1000e Blade Chassis specification sheet.</b>	

<sup>1</sup> 1GB 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](http://Dell.com/Partner/PowerEdge)

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