



# Dell PowerEdge M605

The Dell™ PowerEdge™ M605 is an ideal entry-level mainstream application or virtualization server.

The Dell PowerEdge M605 blade server, featuring up to six-core AMD Opteron™ processors, removes complexity to help your servers run better, use space smarter, and cost less over time. Built from the ground up using Dell's Energy Smart and FlexIO technologies, Dell's M-series blades are designed to combat data center sprawl and IT complexity by delivering one of the most energy-efficient, flexible, and manageable blade server products on the market.

## Streamlined Virtualization

The PowerEdge M605 offers outstanding virtualization performance in a 2-socket blade server combined with factory-integrated virtualization capabilities. Dell continues to simplify virtualization by streamlining virtualization deployment and providing ease of use in virtual infrastructures. Our virtualization-optimized server configurations provide an easy path to virtualization through factory-integrated hypervisors and recommended hardware configurations that support an ideal virtual infrastructure.

## Powerful Energy Efficiency

Dell blade servers deliver performance and efficiency without compromise. Power-saving innovations are built into all AMD Opteron™ processors, from the ultra low-power AMD Opteron™ EE processors to the highest performing processors in the product family, the AMD Opteron™ SE processors.

## Server Deployment and Management Simplified

Centralized management controllers, dynamic power management, real-time power reporting, and integrated KVM (keyboard, video, mouse) all make server management quick and easy. Plus, every PowerEdge server is fully installed and tested at the factory and ships in a minimum of boxes for fast deployment.

## Scalability for Growth

To keep pace with changing requirements, you can effectively scale I/O application bandwidth with end-to-end 10Gbe or Fibre Channel solutions. Use NPIV and Port Aggregator modes on a variety of switches to virtualize Ethernet or Fibre Channel ports for integration into heterogeneous fabrics. By harnessing Dell's FlexIO modular switches, you can scale your I/O needs cost effectively, adding ports and functionality through expansion modules, including 10Gb uplinks and stacking ports instead of

needing to buy complete new switches. Dell provides a range of solutions for building on your investment to avoid costly "rip and replace" scenarios.

## Smart Investment

The M605 is a foundational component of smart M-Series blade solutions that can help protect your infrastructure investments, simplify your IT environment, and drive real and sustainable savings in power efficiency and productivity by freeing up time and money previously needed for maintenance so you can use it for true innovation.

- A future-ready, passive midplane capable of supporting multiple generations of blade servers and a full array of upcoming I/O technologies
- FlexIO eliminates "rip and replace" blade switch upgrades; modularity is built into the switches
- FlexAddress™ technology simplifies efforts and interactions between server and networking teams by providing slot-assigned, persistent WWN/iSCSI/MAC addresses for maintenance, without additional management tools or proprietary hardware
- Energy Smart Technologies, including ultra-efficient fans and power supplies for outstanding energy efficiency

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Feature	Technical Specification
Processors	Up to 2 Six-Core AMD Opteron™ 2000 Series processors
Chipset	NVIDIA® MCP55
Memory <sup>1</sup>	Up to 8x DIMMs (DDR2) at 800MHz Up to 64GB1 of memory with 8GB DIMMs
Drive Bays	Two 2.5" Hot-Swappable SAS/SATA/Solid State Drives
Storage <sup>1</sup>	<p><b>Up to two Hot-Swappable Internal Drives:</b>            2.5" SAS (10K rpm): 73GB, 146GB, 300GB, 600GB            2.5" SAS (15K rpm): 36GB or 73GB, 146GB            2.5" SATA (7.2k rpm): 80GB, 160GB, 250GB            25GB, 50GB Solid State Drive (SSD)</p> <p><b>Maximum Internal Storage:</b>            Up to 600GB per blade via two 2.5" 300GB hot-swappable SAS (10k rpm) hard drives</p> <p><b>External Storage Options:</b>            Dell/EMC Fibre Channel and/or iSCSI external storage, including Dell/EMC AX150, AX150i, CX300, CX3-10c , CX3-20, CX3-40, and CX3-80, PowerVault™ MD3000i and PowerVault™ NX1950 Unified Storage Solution</p>
RAID Controller Options	SAS6/IR (Raid 0/1) hardware based CERC6/IR (Raid 0/1 w/ Cache)
I/O Mezzanine Card Options	<p><b>1Gb &amp; 10Gb Ethernet:</b>            Dual-Port Broadcom® Gb Ethernet w/ TOE (BCM-5709S)            Quad-Port Intel® Gb Ethernet (BCM-82576)            Dual-Port Broadcom® Gb Ethernet (BCM-5709S)            Dual-Port Broadcom® 10Gb Ethernet (BCM-57711)            10Gb Enhanced Ethernet &amp; Converged Network Adapters (CEE/DCB):            Dual-Port Qlogic® Converged Network Adapter (QME8142) - Supports CEE/DCB 10GbE + FCoE</p> <p><b>Fibre Channel:</b>            Dual-Port QLogic® FC8 Fibre Channel Host Bus Adapter (HBA) (QME2572)            Dual-Port Emulex® FC8 Fibre Channel Host Bus Adapter (HBA) (LPe1205-M)</p> <p><b>Infiniband:</b>            Dual-Port Mellanox® ConnectX Quad Data Rate (QDR) InfiniBand            Dual-Port Mellanox® ConnectX Dual Data Rate (DDR) InfiniBand</p>
Operating Systems	<p>Microsoft® Windows® Essential Business Server 2008            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®            Sun® Solaris™</p> <p><b>Virtualization Options:</b>            Citrix® XenServer™            Microsoft® Hyper-V™ via Microsoft® Windows Server® 2008            VMware® vSphere™ 4.1 (including VMware ESX® 4.1 or VMware ESXi™ 4.1)</p> <p>For more information on the specific versions and additions, visit <a href="http://www.dell.com/OSsupport">www.dell.com/OSsupport</a>.</p>
Featured Database Applications	Microsoft® SQL Server® solutions (see <a href="http://Dell.com/SQL">Dell.com/SQL</a> ) Oracle® database solutions (see <a href="http://Dell.com/Oracle">Dell.com/Oracle</a> )
Power Supply	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis
Video	Embedded ATI™ RN50 video controller with 32MB memory
Systems Management	<p><b>Dell OpenManage™ software tools</b></p> <ul style="list-style-type: none"> <li>• Altiris™ Deployment Solution for Dell Blade Servers—reduce deployment time from hours to seconds</li> <li>• IT Assistant—manage multiple Dell servers from a single console</li> <li>• OpenManage Server Administrator—1:1 monitoring agents Integration with 3rd party management solutions via Dell's Certified Partner Program</li> </ul> <p><b>Integrated Dell Remote Access Controller (iDRAC) with:</b></p> <ul style="list-style-type: none"> <li>• Out-of-Band alerting, status, inventory, and troubleshooting via Secure Web GUI/CLI (telnet/SSH)</li> <li>• Remote Virtual Media (vMedia) and Virtual KVM           <ul style="list-style-type: none"> <li>– vKVM blade</li> <li>– vKVM- out of band remote console, supports Java or ActiveX plug-ins</li> </ul> </li> <li>• IPMI 2.0 support</li> </ul> <p><b>Microsoft® System Center Essential (SCE) 2010 v2</b></p>
Embedded Hypervisor	Optional Embedded SD Media

For more information about the Dell blade solution, see the [PowerEdge M1000e Technical Guide](#) or the [M1000e Blade Chassis Specification Sheet](#).

<sup>1</sup> 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.

Discover more at [Dell.com/Blades](http://Dell.com/Blades)

