

SIMPLIFYING IT

The Dell™ PowerEdge™ M-Series blade servers address the challenges of an evolving IT environment by delivering leading enterprise-class features and functionality. The M-Series delivers a unique array of options configured to meet the needs of your IT environment both now and in the future.

- Multiple blade form-factor choices
- Modular I/O switches for future scalability
- Breakthrough fan technologies for reduction in power consumption
- Configuration management via chassis management controller

THE DELL DIFFERENCE

SIMPLE MANAGEABILITY

Dell recognizes the importance of simplifying IT management, which is why Dell's blade solutions deliver easy and expanded management functionalities. These features include the world's first fully modular blade enclosure, easily managed I/O switches, and an interactive LCD panel for deployment and local troubleshooting, with a deployment wizard for easy setup. With the addition of Dell's FlexAddress technology for persistent WWN/MAC addresses, PowerEdge M-Series blade servers allow you to focus on managing your organization, not your data center.

INCREASED FLEXIBILITY

Designed to lead the industry in rapid and easy setup and deployment, Dell M-Series blade servers feature modular I/O switches for easy upgradeability, a passive midplane already 10GbE and QDR (40GB/s) InfiniBand capable, and a long chassis lifecycle. These features provide you with an easy and effective solution for scaling your I/O infrastructure that can deliver significant savings in time, cabling, and switch port costs.

ENERGY EFFICIENCY

The Dell M-Series blades are designed for energy efficiency and density to address the growing power consumption and space constraints in your data center. Continuing their sustained commitment and leadership in energy efficiency, Dell has created the most power-efficient mainstream blade solution on the market. From fan technologies featuring active, zoned cooling to ultra-efficient power supplies offering dynamic control and power monitoring, the M-Series will provide you with the power efficiency your data center needs from a single blade through a fully populated chassis.

SIMPLY PUT: DELL M-SERIES BLADES DESIGN LEADERSHIP FOR THE FUTURE

SIMPLIFY YOUR YOUR NETWORK AT DELL.COM/PowerEdge

1 25% performance/watt claim based on a Principled Technologies report commissioned by Dell, SPECjbb2005 performance and power consumption on Dell, HP, and IBM blade servers — December 2007, comparing 16 blade chassis configurations of the Dell PowerEdge M600 and HP ProLiant BL460c.



CUTTING EDGE SOLUTIONS FOR TODAY AND TOMORROW

DELL™ POWEREDGE™ M-SERIES BLADE SERVERS



FAST, INNOVATIVE, RELIABLE

DELL M-SERIES BLADES: MODULAR COMPUTING WITHOUT COMPROMISE

POWEREDGE M805 AND M905: OPTIMAL VIRTUALIZATION DESIGN

Designed for IT environments needing expanded virtualization and database capabilities, the Dell PowerEdge M805 and M905 full-height blade servers deliver increased performance, network connectivity, I/O capacity, database and virtualization capabilities, and improved energy efficiencies at the lowest possible cost.

BUILT FROM THE GROUND UP FOR ENHANCED VIRTUALIZATION

Combining the latest Quad-Core AMD Opteron™ Processors with increased RAM capacity and an unmatched three Highly Available I/O fabrics, the PowerEdge M805 delivers powerful performance in virtual environments. The M805 also offers 16 DIMM slots, up to 128GB total RAM, and an internal SD card for embedded hypervisors, delivering improved performance in environments demanding the most from a two-socket server.

For high-density virtualization and database environments demanding the highest available RAM and I/O, the PowerEdge M905 delivers 24 DIMM slots, up to 192GB total RAM, as well as an internal SD card in a four-socket server.

EFFICIENT PROCESSORS, EFFICIENT BLADES

For businesses that require high performance while maintaining a low-energy footprint, the PowerEdge M805 and M905 feature AMD PowerNow!™ technology. Utilizing dynamic frequency and voltage support to deliver performance on demand, the M805 and M905 can greatly reduce power consumption without compromising performance. The M805 and M905 are fully compatible with the M600 and M605 in the PowerEdge M1000e Modular Blade Enclosure, further helping you to increase capacity, lower operating costs, and deliver outstanding performance/watt. Built on Dell Energy Smart technology, these blade servers are designed to be some of the most power-efficient x86 servers in the industry.



PowerEdge M905

POWEREDGE M1000e: THE NEXT GENERATION OF BLADE CHASSIS

The Dell™ PowerEdge™ M1000e Modular Blade Enclosure is a breakthrough in enterprise server architecture. Flexible and scalable, the M1000e is designed to support future generations of blade servers regardless of processor/chipset architecture and I/O needs.

EASY TO USE, EASY TO MANAGE

Using centralized chassis management controllers, the M1000e provides redundant, secure access paths for IT administrators to manage multiple enclosures and blades from a single console. One of the only blade solutions with an integrated KVM switch, the M1000e enables easy setup and deployment and seamless integration into an existing KVM infrastructure without requiring dongles or extra switches. This makes the PowerEdge M1000e one of the easiest blade solutions to deploy and manage.

Only Dell provides complete, scale-on-demand switch designs. With the M-Series' additional I/O slots and switch options, you have the flexibility needed to meet your increasing and demanding I/O requirements. The M1000e helps reduce the cost and complexity of managing computing resources so you can focus on growing your business or managing your organization.

Convenient features such as centralized chassis management controllers, dynamic power management, real-time power reporting, and integrated KVM technology for concurrent remote access to all blades make server management quick and easy. Plus when you order a chassis/blade solution, every PowerEdge blade server is fully tested and then installed at the factory.

BLADE ENCLOSURES BUILT FOR MAXIMUM ENERGY EFFICIENCY

Built on Dell's Energy Smart technology, the M1000e is one of the most power-efficient blade solution on the market. It can help increase capacity, lower operating costs, and deliver better performance/watt than blade competitors. The M1000e enclosure takes advantage of Energy Smart thermal design efficiencies, such as ultra-efficient power supplies and dynamic power-efficient fans with optimized airflow design to efficiently cool the chassis and enable better performance in a lower power envelope.

DELL SUPPORT AND SERVICES

Dell Services and ProSupport options align with the way organizations use technology — rapidly responding to their needs and helping to protect their investment, productivity, and sensitive data. We can also provide enhanced proactive support options to help reduce the risk and complexity of managing infrastructure.

POWEREDGE M600 AND M605: INNOVATIVE ENTERPRISE SERVER ARCHITECTURE

The M600 and M605 blade solutions are equipped to streamline your data center today and scale to tackle the challenges of tomorrow. Built from the ground up using Dell's Energy Smart and FlexIO technologies, the M-Series is designed to combat data center sprawl and IT complexity. These half-height mainstream blade servers deliver the most energy-efficient, flexible, and manageable blade server solutions available to IT departments for lower system resource applications needs.

INTEGRATED PERFORMANCE

Featuring the latest Intel® Xeon® and AMD Opteron™ Quad-Core Processors, the M600 and M605 simplify IT by helping improve application performance, lower security risks, and reduce operational complexity. With optional factory-integrated virtualization capabilities, the M600 and M605 can help streamline virtualization deployment and provide ease-of-use in virtual environments.

OPTIMIZED ENERGY EFFICIENCY

Designed for energy efficiency and density, the PowerEdge™ M600 and M605 address the growing power consumption and space constraints of your data center. Paired with the PowerEdge M1000e modular blade enclosure, the M600 delivers levels of energy efficiency and flexibility that HP and IBM cannot beat.¹ The M600 and M605 blade servers are some of the most



PowerEdge M605

energy-efficient blade products on the market and have a 60% greater density than traditional 1U servers. This density advantage allows you to put the blade equivalent of 64 x 1U servers in 40U's of space.



Dell PowerEdge M-Series blades provide a simplified, cost-effective solution for data-center flexibility and energy efficiency, all while reducing the complexity of managing computing resources.