The Dell PowerEdge™ M1000e Modular Blade Enclosure is built from the ground up to combat data center sprawl and IT complexity, delivering one of the most energy efficient, flexible, and manageable blade server implementations on the market.

**Leading energy efficiency**

The M1000e enclosure takes advantage of its world-class design by coupling ultra-efficient power supplies with large variable-speed fans and optimized airflow to effectively cool the entire chassis while using less power.

**Effortless scalability**

Only Dell provides complete, scale-on-demand switch designs. With additional I/O slots and switch options, you have the flexibility you need to meet ever-increasing demands for I/O consumption. Plus, Dell’s FlexIO modular switch technology lets you easily scale to provide additional uplink and stacking functionality — no need to waste your current investment with a “rip and replace” upgrade.

**Easy-to-use, powerful management tools**

The M1000e helps reduce the cost and complexity of managing computing resources so you can focus on growing your business or managing your organization with features such as:

- Centralized Chassis Management Controller (CMC) modules for redundant, secure access paths for IT administrators to manage multiple enclosures and blades from a single interface.
- Dynamic and granular power management so you have the capability to set power thresholds to help ensure your blades operate within your specific power envelope.
- Real-time reporting for enclosure and blade power consumption, as well as the ability to prioritize blade slots for power, providing you with optimal control over power resources.

**FlexAddress technology: the simple, low-cost way to limit downtime**

Dell’s patent-pending FlexAddress™ technology allows any M-Series blade enclosure to assign the World Wide Name (WWN) or Media Access Control (MAC) address of Fibre Channel, Ethernet and iSCSI controllers to an M1000e blade slot instead of directly to the blade. By removing the network and storage identity from the server hardware, customers are now able to upgrade and replace components or the entire blade server without being forced to change the identity on the network or rezone switches. Unlike other solutions, which often require separate management interfaces and proprietary hardware, FlexAddress will work with any network and is implemented directly from the integrated CMC by simply selecting the chassis slots and fabrics that you want to enable. FlexAddress delivers persistent network and storage identities, equipping your data center to handle predictable or even unplanned changes — add, upgrade, or remove servers without affecting your networks.

**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 total cost of ownership (TCO).

Built from the ground up to combat data center sprawl and IT complexity, the PowerEdge M1000e delivers one of the most energy-efficient, flexible and manageable blade server products on the market.
**Feature**

**M1000e Modular Blade Enclosure technical specifications**

### Chassis enclosure

M1000e chassis supports up to six 2700W high-efficiency power supplies or up to six -48V DC 2700W power supplies. Based on Dell’s Energy Smart technologies, the M1000e power supplies deliver greater levels of efficiency, even at low levels of utilization. Supported power supply configurations include:

- 3+1 and 2+2 (grid redundancy)
- 2+1, 3+1, 4+2, and 5+1 (power supply redundancy)
- 2+0 and 3+0 (non-redundant mode)

The M1000e chassis supports dynamic power supply engagement (DPSE) mode, which, if enabled, puts lightly loaded power supplies into standby mode, driving up the utilization and the efficiency of the active supplies. Dell supports either 110–120V or 208–240V AC power supply input and supports a wide range of power distribution options. Dell recommends 208–240V AC for all production environments.

### Power supplies

- External: One (standard) or a second optional (redundant) Chassis Management Controller(s) (CMC)
- Dell PowerConnect M6348 Gigabit Ethernet Blade Switch
- Converged 1/10Gb Ethernet switch with 24-10GE ports (16 internal), stacking of up to 12 switches, simple mode, and 4 x fixed copper 10/100/1000Mb Ethernet uplinks, 64Gb (full duplex) StackWise® Plus stacking ports, supports 2 x 1Gb copper or optical SFPs each.
- Dell PowerConnect M8024-k 10Gb Ethernet Switch
- Dell PowerConnect M8428-k 10Gb Converged Network Switch
- Dell PowerEdge M6220 Gigabit Ethernet Switch
- Dell PowerEdge M6348 Gigabit Ethernet Blade Switch
- One (standard) or a second optional (redundant) Chassis Management Controller(s) (CMC)
- Single, secure interface for inventory, configuration, monitoring, and alerting of all chassis and components
- Multi-chassis management that allows up to nine chassis and 288 servers to be managed from a single, embedded, agent-less interface
- Automated and embedded one-to-many blade BIOS and firmware updates, independent of the operating system through the Integrated Dell Remote Access Controller (iDRAC)
- One-to-many blade server BIOS capture and replication
- Real-time power/thermal monitoring and management
- Real-time system AC power consumption with restartable peak and minimum values
- System-level power limiting and slot-based power prioritization
- DSPE functionality to help lower overall system power consumption by ensuring power supplies run at their optimal efficiency points
- Fan speed control using Dell’s enhanced efficiency technologies to ensure fans are delivering optimal cooling while minimizing power consumption and airflow
- Secure web (SSL) and command-line (Telnet/SSH) interfaces
- Multiple levels of user roles and permissions, including integration into Microsoft® Active Directory® Services and Lightweight Directory Access Protocol (LDAP) services for authentication
- Two 10/100/1000Mb Ethernet ports + one serial port
- Single point of connection from management network to iDRAC on each of the servers and the management interfaces on the integrated I/O modules
- Second Ethernet port supports daisy chaining of CMCs for improved cable management
- Optional Integrated Avocent® keyboard, video and mouse (KVM) switch
- Enables USB keyboard/mouse and video port on front control panel
- Dell OpenManage™ Systems Management
  - Dell OpenManage Server Administrator—monitoring agents and one-to-one management utilities
  - Dell OpenManage Essentials—discover, inventory, monitor, and update M1000e chassis and blade servers
  - Integration with third-party management solutions through Dell’s Certified Partner Program
- Remote management

### Additional storage options

- Internal: Dell EqualLogic® PS-M4110 Blade Array
- External: Dell Compellent™, EqualLogic, and PowerVault™ storage

### Rack support

RapidRails™ static rails for 4-post square hole racks; VersaRails™ static rails for 4-post square or unthreaded round hole racks

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