



# DELL™ POWEREDGE™ SERVERS

PRODUCT GUIDE

INTRODUCING THE LATEST GENERATION  
OF POWEREDGE SERVERS

User-Inspired Award-Winning Design

Cost-Cutting Energy Smart Technology

Exclusive Industry-Only Embedded Management

Integrated and Flexible Lifecycle Services



Corporations place new demands on their data centers daily. The result is an increase in restrictions and complexity. IT professionals must control costs while trying to accommodate more users, data, and devices all consuming more power. Dell can help you simplify IT while reducing the cost and complexity of deploying, maintaining, and scaling technology. This allows you to reclaim time, resources, and money. When you choose Dell, you can:

**GET IT FASTER.** Streamline technology deployments; maximize project speed and accuracy.

**RUN IT BETTER.** Increase administrative productivity; reduce system maintenance time and effort.

**GROW IT SMARTER.** Extend infrastructure life; scale in more ways with fewer restrictions.

## A GENERATION AHEAD.

Dell™ PowerEdge™ servers set the industry standard for simplifying operations by delivering end-to-end solutions while driving price/performance. Whether you need a tower, rack, or blade server, or a combination of these, Dell's comprehensive, award-winning PowerEdge family can meet your needs. Dell servers excel in virtualization, power and cooling, embedded systems management, and purposeful design.

By building solutions with open standards and modular components, we can provide greater flexibility and scalability, without locking you in to proprietary technologies.

Explore our PowerEdge server portfolio to find a solution that suits your needs.



DELL M1000E ENCLOSURE WITH THE POWEREDGE M-SERIES BLADE SERVERS.

POWEREDGE T610  
POWEREDGE R610  
POWEREDGE R710

# INTRODUCING THE NEXT-GENERATION DELL™ POWEREDGE™ SERVERS. BUILT TO THE MOST DEMANDING SPECIFICATIONS EVER SET FORTH. YOURS.

Meet our next generation of PowerEdge servers. Inspired by you, these servers reflect the marriage of operational simplicity and innovative design. We listened to your challenges and incorporated purposeful design and Intel® Xeon® 5500 series processors. Our new portfolio of servers addresses:

- **MANAGEABILITY**
- **ENERGY EFFICIENCY**
- **MEMORY SCALABILITY AND CAPACITY**
- **VIRTUALIZATION PERFORMANCE**
- **RELIABILITY**

Combined with a new suite of systems management solutions and flexible services, these new servers can help lower operating costs, reduce complexity, and free up resources so you can do more with your IT environment.



## **DELL POWEREDGE T610**

Dell's next generation 2-socket, 5U tower server based on Intel® Xeon® Dual-Core and Quad-Core 5500 series processors. Ideal for corporate data centers and remote sites that require high availability, exceptional virtualization, system management, and energy efficiency.



## **POWEREDGE M610**

Dell's latest 2-socket half-height blade server. Designed for virtualization, mainstream business, and database applications.



## **DELL POWEREDGE R610**

Latest 2-socket, 1U rack server. Great for corporate data centers and remote sites that require exceptional virtualization, system management, and energy efficiency.



## **POWEREDGE R710**

Dell's new 2-socket 2U Rack Server. Ideal for business-critical applications.



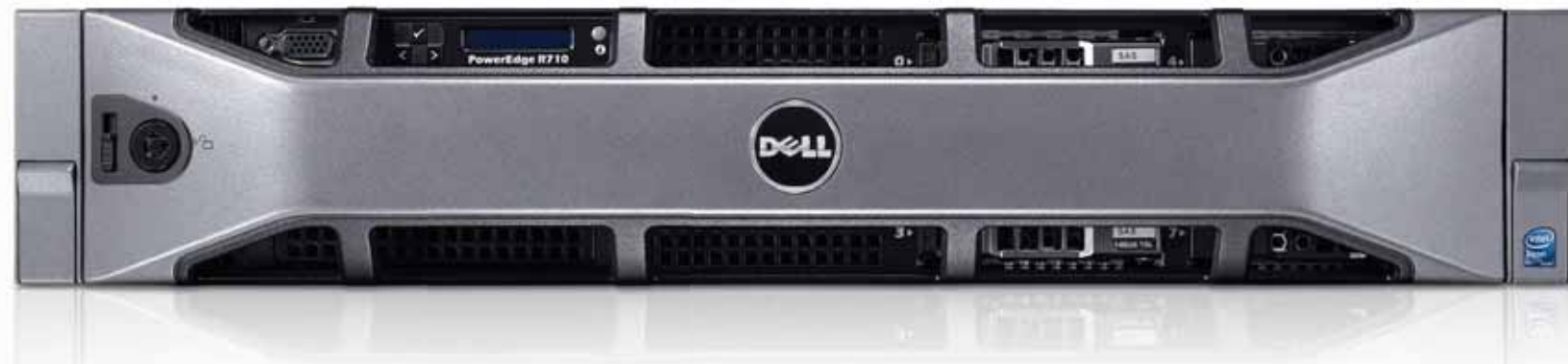
## **POWEREDGE M710**

New 2-socket, Dual-Core and Quad-Core, full-height blade server. Ideal for I/O-intensive applications, virtualization, and compute-intensive, business-critical applications.



# POWEREDGE™ RACK SERVERS MAXIMIZE PERFORMANCE AND AVAILABILITY

Dell provides a complete portfolio of 1, 2, and 4U socket rack servers designed to reduce complexity and deliver superior value. PowerEdge rack servers feature excellent performance and functionality and outstanding reliability.



DELL™ POWEREDGE™ RACK SERVERS													
	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (MIN/MAX)	PCI SLOTS	DRIVE CONTROLLERS	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE**	EXTERNAL STORAGE	AVAILABILITY FEATURES	
RACK	R905	High-performance rack-dense server, optimized for virtualization	4U Rack	An ideal platform for virtualization and high-availability, high-performance database applications	Up to four Quad-Core AMD Opteron™ 8200 or 8300 Series Processors	2GB – 256GB DDR2 SDRAM	Seven available: PCIe (2 x8 and 5 x4) RAID and DRAC have dedicated internal slots	SAS 6/iR or PERC 6/i	SAS 6/iR PERC 6/E SAS 5/E	Quad-embedded Broadcom Gigabit® NICs – TOE and iSCSI offload enabled. Upgradeable to: Dual-embedded Broadcom Gigabit® NICs – TOE and iSCSI offload enabled plus Dual-embedded Broadcom 10 Gigabit NICs	5 x 1TB = 5TB 3.5" 7.2K Near Line SAS or 5 x 450GB = 2.25TB 3.5" 15K SAS or 8 x 300GB = 2.4TB 2.5" 10K SAS	SAS and Fibre Channel storage systems	ECC memory, SDDC, Memory Sparring; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; optional PCI Express-based RAID with PERC 6/i; tool-less chassis; optional PCI Express-based Fibre Channel HBA; Baseboard Management Controller with IPMI 2.0
	R900	High-performance rack-dense server	4U Rack	An ideal platform for virtualization and high-availability, high-performance database applications	Up to four Quad-Core Intel® Xeon® 7300 & 7400 series processors	2GB – 256GB Fully Buffered DIMMs	Seven available: PCIe (4 x8 and 3 x4) RAID and DRAC have dedicated internal slots	SAS 6/iR or PERC 6/i	SAS 6/iR PERC 6/E SAS 5/E	Quad-embedded Broadcom® Gigabit® NICs – TOE enabled	5 x 1TB = 5TB 3.5" 7.2K Near Line SAS or 5 x 450GB = 2.25TB 3.5" 15K SAS or 8 x 300GB = 2.4TB 2.5" 10K SAS	SAS and Fibre Channel storage systems	ECC memory, SDDC, Memory Sparring; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; optional PCI Express-based RAID with PERC 6/i; tool-less chassis; optional PCI Express-based Fibre Channel HBA; Baseboard Management Controller with IPMI 2.0
	R805	Designed from the ground up for balanced virtualization performance	2U Rack	Fine-tuned to provide virtualization performance with a carefully selected formula of processor technology, memory capacity, and I/O scalability; featuring up to 2X the memory and I/O scalability of previous generation standard 2U 2-socket servers, the PowerEdge R805 helps remove the barriers to running memory and I/O dependent applications such as VMware's ESX server™	Two Dual-Core AMD Opteron 2300 or 2200 Series Processors	2GB – 128GB DDR2 SDRAM	Four PCIe 3 x8,* 1 x4 * Full x8 performance of one slot is application dependent	PERC 6/i, SAS 6/iR RAID (SAS or SATA support)	PERC 6/i SAS 6/iR PERC 6/E PERC 5/E (not factory installed)	Four embedded Broadcom Gigabit® NICs – TOE and iSCSI Offload enabled. Upgradeable to: Dual-embedded Broadcom Gigabit® NICs – TOE and iSCSI offload enabled plus dual-embedded Broadcom 10 Gigabit NICs	2 x 300GB 2.5" SAS = 600GB	SAS, SCSI, and Fibre Channel storage systems	Hot-plug hard drives, Hot-plug redundant power, Hot-plug redundant cooling, ECC memory, Spare Row, Single Device Data Correction (SDDC), DRAC 5, Support for external tape device, Tool-less chassis, Cluster support
	2970	Performance and availability with configuration flexibility	2U Rack	High performance and availability in a rack-dense 2U form factor	Up to two Dual-Core AMD Opteron 2300 or 2200 Series Processors	1GB – 64GB DDR2 SDRAM	Three PCIe, 2 x8, 1 x4	PERC 6/i, PERC 5/i, SAS 6/iR RAID or SAS 5/i	PERC 6/i PERC 5/i SAS 6/iR PERC 6/E PERC 5/E	Dual-embedded Broadcom Gigabit® NICs – TOE enabled	6 x 450GB = 2.7TB SAS or 6 x 1TB = 6TB SATA or 6 x 1TB = 6TB NearLine SAS	SAS, SCSI, and Fibre Channel storage systems	Hot-plug hard drives, Hot-plug redundant power, Hot-plug redundant cooling, ECC memory, Spare Row, Single Device Data Correction (SDDC), RAID controller w/ battery-backed cache, High availability failover cluster support, DRAC 5, Support for internal tape device or internal disk drive backup unit, Tool-less chassis, Cluster support
	R710	Latest Intel® 5500 Series based 2U Rack	2U Rack	The right combination of computing power, redundancy, scalability and flexibility in a rack dense 2U form factor	Up to two Dual-Core or Quad-Core Intel Xeon 5500 Processor Series	Up to 144GB (8 DIMM slots): 1GB/2GB/4GB/8GB DDR3, 800MHz, 1066MHz or 1333MHz	2 PCIe x8 + 2 PCIe x4 Gen2 or 1 x16 + 2 x4 Gen2	PERC 6/i or SAS 6/iR, PERC 5/E and PERC 6/E	Optional PERC 5/i integrated SAS/SATA II daughtercard controller with 256MB cache, PERC 5/E adapter, PERC 6/i, and SAS 6/iR	Four embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing; TOE (TCP/IP Offload Engine) supported on Microsoft® Windows Server® 2003 SP1 or higher with Scalable Networking Pack; Optional 1GBe and 10GBe add-in NICs	6TB SATA or Near Line SAS	SAS and Fibre Channel storage systems	DDR3, Spare Bank; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; PERC 6/i; optional PERC5/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SAS cluster support; validated for Dell/EMC SAN

**DELL™ POWEREDGE™ RACK SERVERS (CONTINUED)**

	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (MIN/MAX)	PCI SLOTS	DRIVE CONTROLLERS	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE**	EXTERNAL STORAGE	AVAILABILITY FEATURES	
RACK	2950 III	2U Rack	High performance and availability in a rack-dense 2U form factor	Up to two 64-bit Quad-Core Intel® Xeon® processors	512MB – 64GB Fully Buffered DIMMs	Three total: Three PCI Express (2 x8 and 1 x4) or Two PCI-X 64-bit/133MHz (x4 and x8) and One PCI Express x8	SAS 5/i or SAS 6/i/R or PERC 5/i or PERC 6/i	PERC 6/i, SAS 6iR, PERC 5/i RAID or SAS 5/i, PERC5E, SAS5/E	Dual-embedded Broadcom Gigabit* NICs	6 x 1TB = 6TB SAS or 6 x 6TB = 6TB SATA	SAS, SCSI, and Fibre Channel storage systems	ECC memory, SDDC, Spare Bank; hot-plug SAS/SATA hard drives; optional hot-plug redundant power; hot-plug redundant cooling; tool-less chassis; high-availability Dell/EMC Fibre Channel and PowerVault SCSI cluster support; optional Integrated PERC 6/i integrated daughter card (optional); SAS 3.0 Gb/s RAID controller and 256MB cache	
	R610	1U Rack	Highly available general purpose, in a 1U rack dense form factor	Up to two Quad-Core or Dual-Core Intel Xeon Processor 5500 Series	Up to 96GB (12 DIMM slots); 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz or 1333MHz	2x8 Gen2 slots	PERC 6/i or SAS 6/iR, PERC 5/E and PERC 6/E	Optional PERC 6/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC 5/E adapter, PERC 6/i and SAS 6/iR PERC 6i utilizing battery backed 256MB DDRII 667	Two dual port embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing. Optional 10GbE and 10GbE add-in NICs		SAS and Fibre Channel storage systems	DDR3 memory; ECC; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC 6/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SAS cluster support; validated for Dell/EMC SAN	
	1950 III	1U Rack	High availability rack-dense server	Up to two 64-bit Quad-Core Intel Xeon processors	512MB – 64GB Fully Buffered DIMMs	Two total: Two 64-bit/133MHz PCI-X or Two PCI Express (2 x8)	SAS 5/i or SAS 6/i/R or PERC 5/i or PERC 6/i	PERC 6/i, SAS 6iR, PERC 5/i RAID or SAS 5/i, PERC 5/E, SAS 5/E	Dual-embedded Broadcom Gigabit* NICs	2 x 1TB = 2TB SAS or 2 x 2TB = 2TB SATA	SAS, SCSI, and Fibre Channel storage systems	ECC memory, SDDC, Spare Bank; hot-plug SAS/SATA hard drives; optional hot-plug redundant power; redundant cooling; tool-less chassis; high-availability Dell/EMC Fibre Channel and PowerVault SCSI cluster support; optional Integrated SAS 6/R(base); 4 port SAS controller; does not support RAID Integrated PERC 6/i (optional); SAS 3.0 Gb/s RAID controller with 256MB of battery backup	
	R300	1U Rack	Performance and high-availability rack-dense server	Highest performance and processor in 1U space; high-availability options for hot-plug HDD and redundant PSU. 6 DIMM slots for support up to 24GB ECC DDR2 memory	Quad-Core Intel® Xeon® Processor, Dual-Core Xeon Processor, Intel® Core™2 Duo Processor, Intel® Celeron® Processor	512MB – 24GB Registered ECC DDR2 667 SDRAM	Two PCI Express x8 slots	Embedded SATA controller, Optional SAS 5/E controller	PERC 6/E SAS 6/iR	Dual-embedded Broadcom* Gigabit* NICs	2 x 1TB = 2TB SAS 2x 1TB = 2TB SATA	Dell PowerVault™ Tape and SAS storage systems	ECC memory, optional RAID, dual-embedded NICs, embedded BMC with IPMI 2.0, optional DRAC5 for remote management, OpenManage™ system management suite support, optional hot-plug SAS/SATA hard drives, optional redundant power supply, TPM security feature, internal USB connector, tool-less chassis, front panel diagnostic LCD
	R200	1U Rack	Rack-dense server	Delivers performance and processor flexibility in a cost-effective, rack-dense general-purpose server	Quad-Core Xeon Processor, Dual-Core Xeon Processor, Intel Core 2 Duo Processor, Intel® Pentium® Dual-Core Processor, Intel Celeron Processor	512MB – 8GB ECC DDR2 667/800 SDRAM	Choice of two risers: Riser 1: One PCI-X slot (64-bit/133MHz) and One PCI Express slot (1 x8 lane) or Riser 2: Two PCI Express slots (1 x4 lane and 1 x8 lane)	Embedded SATA controller, Optional SAS 5/E controller	PERC 6/E SAS 6/iR	Dual-embedded Broadcom Gigabit* NICs	2 x 1TB = 2TB SAS 2x 1TB = 2TB SATA	Dell PowerVault Tape, SCSI, and SAS storage systems	ECC memory, optional RAID, dual-embedded LOMs with failover and load balancing support, optional DRAC4 for remote management, and OpenManage system management suite support
	SC1435	1U Rack	High-performance rack-dense server	Delivers value for high-performance compute clusters and Web farms	Quad and Dual-core AMD Opteron™ Series Processors	512MB – 32GB DDR2 SDRAM	One PCI Express (x8) or PCI-X	Embedded SATA controller	Embedded SATA controller	Dual-embedded Broadcom Gigabit* NICs	2x1TB = 2TB SAS 2x1TB = 2TB SATA	Not available	ECC memory, SDDC, Node interleaving; optional RAID with SAS 5/iR; tool-less chassis; Baseboard Management Controller with IPMI 2.0, and OpenManage system management suite support

# POWEREDGE™ TOWER SERVERS ACHIEVE UNPRECEDENTED VALUE



Dell provides a complete tower server portfolio with a wide choice of performance and functionality, providing you with a solid foundation to run your businesses and organizations. The PowerEdge server towers are designed to deliver high quality and reliability at a consistently low acquisition cost with exceptional price/performance.

## DELL™ POWEREDGE™ TOWER SERVERS

	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (MIN/MAX)	PCI SLOTS	DRIVE CONTROLLERS	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE**	EXTERNAL STORAGE	AVAILABILITY FEATURES	
TOWER	T610	Mainstream ZS tower	Tower or 5U Rack-mountable	High performance, High availability and Energy Efficient ZS server that is compact and quiet	Up to two Dual-Core or Quad-Core Intel® Xeon® 5500 Series Processors	Up to 96GB (12 DIMM slots/ 6 per-processor); 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz or 1333MHz	2 PCIe x8 + 3 PCIe x4 Gen2	PERC 6/i or SAS 6/iR, PERC 5/E and PERC 6/E	Optional PERC 6/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC 5/e adapter, PERC 6/i, and SAS 6/iR	One dual port embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing. Optional 10GbE and 10GbE add-in NICs	Up to 8TB SATA, Near Line SAS, SAS, or SSD	iSCSI and Fibre Channel storage; PowerVault Unified Storage Solution	DDR3 memory; ECC; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC6/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SAS cluster support; validated for Dell/EMC SAN
	2900 III	Performance tower	Tower or 5U Rack	High performance and availability in a tower configuration or a 5U form factor rack configuration	Up to two 64-bit Quad-Core Intel Xeon Processors	512MB – 48GB Fully Buffered DIMMs	Six total: Four PCI Express (3 x4 and 1 x8) and Two 64-bit/133MHz PCI-X	SAS 5/i or SAS 6/iR or PERC 5/i or PERC 6/i	PERC 6/i, SAS 6/iR, PERC 5/i RAID or SAS 5/i, PERC 5/E, SAS 5/E	Dual-embedded Broadcom Gigabit® NICs	8x 1TB + 2x 1TB = 10TB SAS or 8x 1TB + 2x 1TB = 10TB SATA	SAS, SCSI, and Fibre Channel storage systems	ECC memory, SDDC, Spare Bank; hotplug SAS/SATA hard drives; optional hot-plug redundant power; hot-plug redundant cooling; tool-less chassis; high-availability Dell/EMC Fibre Channel and PowerVault SCSI cluster support; optional PERC 5/i integrated RAID controller with battery-backed cache
	T605	Entry-level ZS tower server	Tower	High performance and availability, affordably priced server designed to grow with your business	Up to two 64-bit Quad-Core AMD Opteron™ Processors	1GB - 32GB DDR2 DIMMs	Five total: One PCIe x8, Three PCIe x4, One PCI-X	Embedded four channel SATA controller, Optional SAS	PERC 6/i, SAS 6/iR, SAS 5/E	Single-embedded Broadcom Gigabit NIC	4 x 1TB = 4TB SAS 4 x 1TB = 4TB SATA	Dell PowerVault Tape and SAS storage systems	ECC memory, optional RAID, dual-embedded NICs, embedded BMC with IPMI 2.0, optional DRAC5 for remote management, OpenManage system management suite support, optional hot-plug SAS/SATA hard drives, optional redundant power supply, TPM security feature, internal USB connector, tool-less chassis, front panel diagnostic LCD
	1900	Entry-level ZS tower server	Tower	Delivers performance, scalability, and manageability at a value price	Up to two 64-bit Quad-Core Intel Xeon Processors	256MB – 16GB Fully Buffered DIMMs	Six Total: Four PCI Express (x4 and x8), Two 64-bit/133MHz PCI-X	Embedded two-channel SAS/SATA; optional 4-port SAS/SATA; optional SCSI (for tape)	PERC 5/i, PERC 5/E, SAS 5/iR	Single-embedded Broadcom Gigabit® NIC	6 x 1TB = 6TB SAS or 6 x 1TB = 6TB SATA	SCSI and Fibre Channel storage systems	ECC memory; Single Device Data Correction (SDDC); optional RAID, tool-less chassis; cluster support; full OpenManage Systems Management Suite Support; validated for Dell/EMC SANs; optional Dell Remote Access Controller (DRAC 5) for remote deployments
	T300	Performance and high availability IS tower server	Tower	Highest performance and processor in IS tower space; high availability options for hot-plug HDD and redundant PSU. 6 DIMM slots for support up to 24GB ECC DDR2 memory	Quad-Core Intel Xeon Processor, Intel Dual-Core Xeon Processor, Intel® Core™2 Duo Processor, Intel® Celeron® Processor	512MB - 24GB Registered ECC DDR2 667/800MHz SDRAM	Five total: Two PCI Express x8, Two PCI Express x4, One 64-bit/133MHz, and 3.3v PCI-X	Embedded SATA controller, Optional SAS 5/E controller	PERC 6/i, PERC 6/E, SAS 6/iR	Dual-embedded Broadcom® Gigabit® NICs	4 x 1TB = 4TB SAS 4 x 1TB = 4TB SATA	Dell PowerVault™ Tape and SAS storage systems	ECC memory, optional RAID, dual-embedded NICs, embedded BMC with IPMI 2.0, optional DRAC5 for remote management, OpenManage system management suite support, optional hot-plug SAS/SATA hard drives, optional redundant power supply, TPM security feature, internal USB connector, tool-less chassis, front panel diagnostic LCD
	840	General Purpose IS tower server	Tower	Dell's popular and fully featured general purpose IS tower server	Quad-Core Intel Xeon Processor, Dual-Core Xeon Processor, Intel Core 2 Duo Processor, Intel Celeron Processor	512MB - 8GB ECC DDR2 533/667/800MHz SDRAM	Five total: One PCI Express x8, One PCI Express x4, Two 64-bit/133MHz, and One 3.3v PCI-X	Embedded SATA controller, Optional SAS 5/E controller	PERC 5/i, PERC 5/E or PERC 6/E, SAS 5/iR	Single-embedded Broadcom Gigabit® NIC	4 x 1TB (1") = 4TB SATA 4 x 1000GB (1") = 4TB SATA	Dell PowerVault Tape and SAS storage systems	ECC memory, optional RAID, embedded BMC with IPMI 2.0, optional DRAC 4 for remote management, OpenManage Systems Management suite support, optional hot-plug SAS/SATA hard drives, validated for PowerVault external storage and Dell/EMC SANs

## DELL™ POWEREDGE™ TOWER SERVERS (CONTINUED)

	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (MIN/MAX)	PCI SLOTS	DRIVE CONTROLLERS	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE**	EXTERNAL STORAGE	AVAILABILITY FEATURES	
TOWER	T100	Basic IS tower server	Tower	Ideal first server. Provides performance and security in an easy-to-use format.	Quad-Core Intel® Xeon® Processor, Dual-Core Xeon Processor, Intel® Core™2 Duo Processor, Intel® Pentium® Dual-Core Processor, Intel® Celeron® Processor	512MB – 8GB, ECC DDR2, 667/800, SDRAM	Four total: Three PCI Express: 1 x8, 1x4 (with x8 connector), and x1 One PCI 32-bit/33MHz, 3.3v	Embedded SATA controller	SAS 6/iR	Single Embedded Broadcom Gigabit® NIC	2 x 1TB = 2TB SAS 2 x 1TB = 2TB SATA	PowerVault RD1000	Highly serviceable chassis, ECC memory, optional H/W RAID controller (SAS 6/iR), Quad-pack LED Panel
	T105	Basic IS tower server	Tower	Provides the latest performance features at aggressive prices. Affordable and quiet first server for file/print, e-mail, or dedicated application server.	Quad-core or Dual-Core AMD Opteron™ Processor, AMD Sempron™ Processor	512MB – 8GB ECC DDR2 667/800 SDRAM	Four total: Three PCI Express (2 x8, and x1), One PCI 32-bit/33MHz, 3.3v	Embedded SATA controller	SAS 6/iR	Single Embedded Broadcom Gigabit® NIC	2 x 1TB = 2TB SAS 2 x 1TB = 2TB SATA	PowerVault RD1000	Highly serviceable chassis, ECC memory, optional H/W RAID controller (SAS 6/iR), Quad-pack LED Panel



# POWEREDGE™ BLADE SERVERS

## INVEST IN TOTAL BUSINESS-CLASS SOLUTIONS



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 today and in the future.

**SIMPLE MANAGEABILITY** - Dell's blade solutions deliver an array of enterprise-class management capabilities, including centralized, chassis-based tools to maximize data center productivity.

**INCREASED FLEXIBILITY** - Designed to lead the industry in rapid deployment, Dell's fully modular blade enclosure provides an effective solution for scaling your I/O infrastructure that delivers savings in time, cabling, and switch port costs.

**ENERGY EFFICIENCY** - Dell M-Series blades are designed for energy efficiency and density to address growing power consumption and space constraints in your data center.

### DELL™ POWEREDGE™ M1000e BLADE ENCLOSURE

	PRODUCT	DESCRIPTION	FORM FACTORS	POWER SUPPLIES	COOLING FANS	I/O MODULES	MANAGEMENT MODULES	MANAGEMENT HIGHLIGHTS	
BLADES	M1000e	Unrivaled power efficiency and I/O throughput for performance combined with scalability and flexibility to meet blade server needs for multiple generations	Fully modular blade enclosure optimized for Dell blade servers	10U enclosure holds up to 16 blade servers	Choice of 3 or 6 hot pluggable power supplies	9 hot-pluggable, redundant fan modules all come standard	Up to 6 I/O modules for three redundant fabrics; available switches include Dell & Cisco 10Gb/10Gb Ethernet with modular bays, Dell 10Gb Ethernet with modular bays, Dell Ethernet pass-through, Brocade 4Gb Fibre Channel, Brocade 8Gb Fibre Channel, Fibre Channel pass-through, Mellanox DDR & QDR InfiniBand	1 (standard) or 2 (redundant) Chassis Management Controllers (CMCs); optional integrated KVM switch for "crash cart" management	Dynamic power management allows for predefined power limits to individual blades; real-time reporting for enclosure and blade power consumption; real-time thermal monitoring; secure SSL and CLI interfaces; front control panel with interactive LCD for module setup, info, and troubleshooting

### DELL™ POWEREDGE™ BLADE SERVERS

	DESCRIPTION	FORM FACTOR	BENEFITS	PROCESSOR(S)	RAM (MIN/MAX)	MEZZANINE SLOTS	DRIVE CONTROLLERS	RAID CONTROLLER	INTEGRATED NIC	MAX INTERNAL STORAGE**	EXTERNAL STORAGE	AVAILABILITY FEATURES	
BLADES	M905	Virtualization-optimized 4-socket blade server	Full-height blade; Up to 8 fit into an M1000e enclosure	Full-height blade doubles I/O throughput while offering physical consolidation benefits over rack-mount servers	Four Quad-Core or Dual-Core AMD Opteron™ 8000-Series Processors	2GB - 192GB 667MHz DDR2	4 mezzanine card slots for up to 2 fully redundant, highly available, high-speed mezzanine card I/O fabrics	SAS 6/iR CERC 6/i	SAS 6/iR (no RAID, RAID 0/1) CERC 6/i (RAID 0/1)	Four embedded Broadcom® Gigabit™ NICs with TOE and iSCSI Firmware Boot	2 x 300GB = 600GB SAS	iSCSI and Fibre Channel storage; PowerVault™ Unified Storage Solution	Three USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; embedded ATI RN50 video controller with 32MB memory; Integrated Dell Remote Access Controller (iDRAC); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR or QDR InfiniBand; Integrated Persistent Storage for Virtualization
	M805	Virtualization-optimized 2-socket blade server	Full-height blade; Up to 8 fit into an M1000e enclosure	Full-height blade doubles I/O throughput while offering physical consolidation benefits over rack-mount servers	Two Quad-Core or Dual-Core AMD Opteron 2000-Series Processors	1GB - 128GB 667MHz DDR2	4 mezzanine card slots for up to 2 fully redundant, highly available, high-speed mezzanine card I/O fabrics	SAS 6/iR CERC 6/i	SAS 6/iR (no RAID, RAID 0/1) CERC 6/i (RAID 0/1)	Four embedded Broadcom Gigabit™ NICs with TOE and iSCSI Firmware Boot	2 x 300GB = 600GB SAS	iSCSI and Fibre Channel storage; PowerVault™ Unified Storage Solution	Three USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; embedded ATI RN50 video controller with 32MB memory; Integrated Dell Remote Access Controller (iDRAC); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR or QDR InfiniBand; Integrated Persistent Storage for Virtualization
	M710	New Virtualization optimized 2-socket Intel blade server ideal for performance and I/O intensive	Full-height blade; Up to 8 fit into an M1000e enclosure	Full-height blade doubles I/O throughput while offering physical consolidation benefits over rack-mount servers	Up to two Quad-Core or Dual-Core Intel 5500-Series Processors	1GB - 144GB up to 1333MHz DDR3	4 mezzanine card slots for up to 2 fully redundant, highly available, high-speed mezzanine card I/O fabrics	SAS 6/iR CERC 6/i	SAS 6/iR (no RAID, RAID 0/1) CERC 6/i (RAID 0/1)	Four embedded Broadcom Gigabit™ NICs with TOE and iSCSI Firmware Boot	4 x 300GB = 1.2TB SAS SSD options also available	iSCSI and Fibre Channel storage; PowerVault™ Unified Storage Solution	Three USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; embedded ATI RN50 video controller with 32MB memory; Integrated Dell Remote Access Controller (iDRAC); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR or QDR InfiniBand; Integrated Persistent Storage for Virtualization
	M605	High-performance blade server with unrivaled power efficiency	Half-height blade; Up to 16 fit into an M1000e enclosure	Complete server-class features combined with increased density and power efficiency over traditional 1U rack servers	Up to two Quad-Core or Dual-Core AMD Opteron 2000-Series Processors	512MB - 64GB 667MHz DDR2	2 mezzanine card slots for flexible I/O options	SATA Repeater SAS 6/iR CERC 6/i	SAS 6/iR (no RAID, RAID 0/1) CERC 6/i (RAID 0/1)	Two embedded Broadcom Gigabit™ NIC with TOE and iSCSI Firmware Boot	2 x 300GB = 600GB SAS 2 x 500GB = 1.0TB SATA SSD options also available	iSCSI and Fibre Channel storage; PowerVault™ Unified Storage Solution	Two USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; embedded ATI RN50 video controller with 32MB memory; Integrated Dell Remote Access Controller (iDRAC); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR InfiniBand
	M610	New ultra performance 2-socket blade server	Half-height blade; Up to 16 fit into an M1000e enclosure	Complete server-class features combined with increased density and power efficiency over traditional 1U rack servers	Up to two Quad-Core or Dual-Core Intel® Xeon® 5500 Series Processors	1GB - 96GB up to 1333MHz DDR3	2 mezzanine card slots for flexible I/O options	SATA Repeater SAS 6/iR CERC 6/i	SAS 6/iR (no RAID, RAID 0/1) CERC 6/i (RAID 0/1)	Two embedded Broadcom Gigabit™ NIC with TOE and iSCSI Firmware Boot	2 x 300GB = 600GB SAS 1 x 500GB = 500GB SATA SSD options also available	iSCSI and Fibre Channel storage; PowerVault™ Unified Storage Solution	Two USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; embedded ATI RN50 video controller with 32MB memory; Integrated Dell Remote Access Controller (iDRAC); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR or QDR InfiniBand; Integrated Persistent Storage for Virtualization
	M600	High-performance blade server with unrivaled power efficiency	Half-height blade; Up to 16 fit into an M1000e enclosure	Complete server-class features combined with increased density and power efficiency over traditional 1U rack servers	Up to two Quad-Core or Dual-Core Intel Xeon 5000-Sequence Processors	512MB - 64GB 667MHz Fully Buffered DIMMs	2 mezzanine card slots for flexible I/O options	SATA Repeater SAS 6/iR CERC 6/i	SAS 6/iR (no RAID, RAID 0/1) CERC 6/i (RAID 0/1)	Two embedded Broadcom Gigabit™ NIC with TOE and iSCSI Firmware Boot	2 x 300GB = 600GB SAS 1 x 500GB = 500GB SATA SSD options also available	iSCSI and Fibre Channel storage; PowerVault™ Unified Storage Solution	Two USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse; embedded ATI RN50 video controller with 32MB memory; Integrated Dell Remote Access Controller (iDRAC); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR or QDR InfiniBand



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