
Dell PowerEdge Servers Portfolio Guide



Dell™ PowerEdge™ Servers

Purpose-Built for Reliability

**Virtualization-Enabled for an
Efficient Infrastructure**

**Intelligent, Connected
Systems Management**

With Dell you can

Whether it is your first server, your next server, your growing network or making IT more manageable, we are here to help.

We understand every organization is different and has different needs at different times. And you want a diverse portfolio of products and services to meet a variety of business and non-business needs. Those products and services must be easy to manage, reliable, scalable and flexible, so when ready, you have the tools to help you move forward regardless of your current stage in business or IT. Whether it is your first server, your next server, your growing network or how to make it all more manageable, we are here to help.

Dell wants to provide you with technology that is intelligent, yet simplified in even the most complex environments. We understand our job is to make yours easier.

Recover Valuable Time

Spend more time on meeting business objectives and less on planning, deploying and maintaining IT.

Control Soaring Costs

Reduce your data center footprint by consolidating with high-performance virtualized servers, storage and networking.

Improve Productivity

Maximize results on business applications with Dell's highest performing PowerEdge server.

PowerEdge Next Generation Servers

The 11th generation PowerEdge servers are designed to enhance your IT experience. Dell is changing the way you interact with your technology with easier management, more reliability, better energy efficiency and releasing products with the latest and greatest processor technology. Dell PowerEdge servers deliver value to you by taking technology that was previously over-priced, complex and underutilized and making it easy-to-buy, easy-to-use and easy-to-own, saving you time, money, and resources.

We put our time and technology into features we know you need to be more successful and to ensure your day goes smoother. Inspirations such as the Lifecycle Controller for advanced manageability, interactive LCD screens for system monitoring, dual embedded hypervisors for added redundancy, and FlexMem Bridge for maximum memory access help you to take our technology where you need it to go.



Dell PowerEdge Servers:

Built to the most demanding specifications ever set forth. Yours.

Meet our latest generation of PowerEdge servers. Purpose-built to focus on the key business and non-business related challenges you face in your IT environment. With these servers, Dell hopes to help you build a solid road to the future, so all you need to do is drive forward.

Our new portfolio of servers address:

- Reliability
- Manageability
- Energy Efficiency
- Memory Scalability and Capacity
- Virtualization Performance
- Business Value

Combined with a new suite of systems management solutions and flexible services, Dell PowerEdge servers can help control soaring costs, improve productivity, and free up valuable time so you can do more with your IT environment.



PowerEdge R210

An ultra-compact 1-socket, 1U entry rack server features advanced management capabilities, low wattage power supply and external storage connectivity options in a very small chassis.



PowerEdge R410

A powerful 2-socket, 1U server ideal for compute-intense applications in space-constrained data centers and HPC environments.



PowerEdge R310

A high-performance, 1-socket 1U rack server with flexible computing power, business scalability, simplified management, data protection, and security options ideal for small to midsize businesses, remote offices, and enterprises.



PowerEdge R510

A multi-purpose 2-socket, 2U core application rack server offering an excellent balance of internal storage, redundancy and value in a compact, 24" deep chassis.

The next generation of PowerEdge servers



PowerEdge R610

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



PowerEdge R910

A scalable 4U, 4-socket server offering performance and reliability while allowing large workload consolidation or max virtualization machine density.



PowerEdge R710

A 2U rack server created to efficiently address a wide range of key business applications which can help lower TCO with enhanced virtualization capabilities, improved energy efficiency, and innovative system management tools.



PowerEdge T110

Dell's entry tower server, ideal first server for small business supporting file-sharing, centralization and office collaboration.



PowerEdge R810

A scalable 2U, 2- or 4-socket server offering performance and rack density that allows workload consolidation or high virtualization machine density.



PowerEdge T310

A robust, reliable enterprise-class, 1-socket tower featuring advanced manageability, redundancy and scalability.



PowerEdge R815

A 4-socket rack server offering the latest AMD Opteron™ processors with up to 48 processor cores and an excellent balance of advanced manageability, memory scalability, I/O, and redundancy in a space-saving 2U form factor.



PowerEdge T410

Dell's high-value, flexible 2-socket tower designed to address the broad needs of the growing business and corporate remote offices.

The next generation of PowerEdge servers



PowerEdge T610

A 2-socket, 5U tower server ideal for corporate data centers and remote sites that require high availability, exceptional virtualization, system management and energy efficiency.



PowerEdge M910

A full-height, 4-socket blade server that allows deployment of large Enterprise-class applications as well as the ability to support heavy virtualization or workload consolidation in maximum density.



PowerEdge T710

Dell's next-generation, 2-socket, 5U tower server that offers enhanced system performance and more virtual machine per server capacity than previous generations.



PowerEdge C1100

Hyperscale-inspired 1-socket, six- and quad-core, 1U rack server. Ideal for scale-out power and space-sensitive data centers requiring maximum memory flexibility.



PowerEdge M610

A 2-socket half-height blade server designed for virtualization, mainstream business and database applications.



PowerEdge C2100

Hyperscale-inspired 2-socket, six- and quad-core, 2U rack server. Ideal for scale-out data center environments with critical memory and storage density requirements.



PowerEdge M710

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



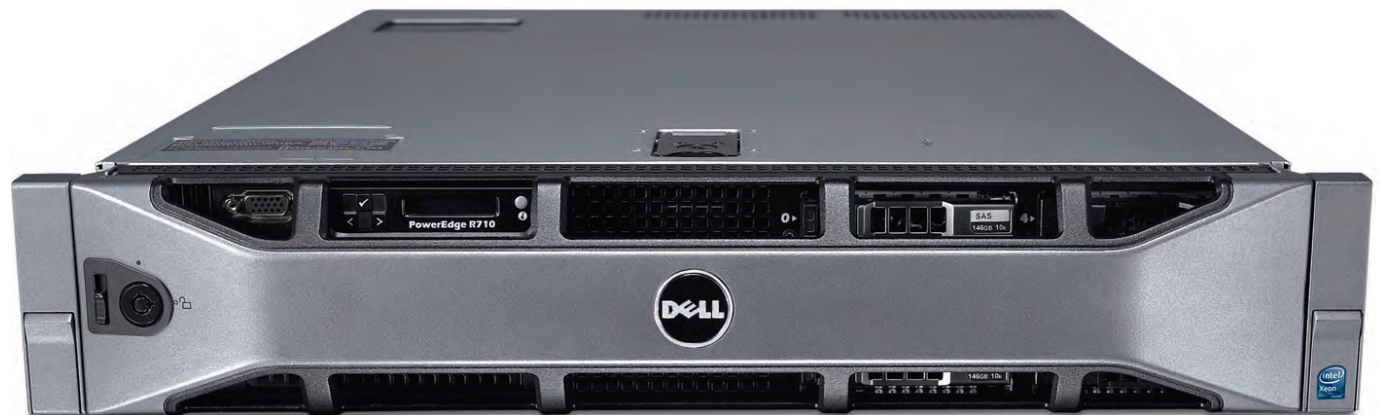
PowerEdge C6100

Hyperscale-inspired 4 x 2-socket, six- and quad-core, 2U shared infrastructure server. Ideal for scale-out environments such as HPCC, Web 2.0, gaming and cloud building.

PowerEdge Rack Servers

Maximize Performance and Availability

Dell provides a complete portfolio of 1, 2, and 4 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

Racks

	Description	Form Factor	Benefits	Processor(s)	RAM (min/max)	PCI slots	Drive Controllers	RAID Controllers	Integrated NIC	Max. Internal Storage	External Storage	Availability Features
R910	High-performance 4-socket, 4U rack server that features built-in reliability and scalability for mission-critical applications	4U	Built-in reliability features at the CPU, memory, hardware and hypervisor levels. Integrated systems management, Lifecycle Controller and embedded diagnostics to help maximize uptime. Failsafe dual SD modules providing superior hypervisor redundancy	Intel® Xeon® 7500 Series	4GB/1TB DDR3 RDIMMS	Up to 10 PCIe G2* slots; Standard: 7 PCIe Gen2* slots (2 x4, 4 x8, 1 x16. *Note: slot5 is x4 PCIe Gen1 slot Optional: 10 PCIe Gen2* (6 x4, 4 x8) One Storage x8 slot	PERC H800 PERC 6/E 6 Gbps SAS HBA SAS 5/E LSI2032 (For TBU)	PERC H200 PERC H700"	Two embedded Broadcom 5709C dual-port NICs	4.8TB	PowerVault™ Storage Dell EqualLogic™ Storage Dell EMC Storage	DDR3 ECC memory, hot-swap hard drives, redundant power supplies, interactive LCD screen, Dual SD modules
R905	High-performance rack-dense server, optimized for virtualization	4U	An ideal platform for virtualization and high-availability, high-performance database applications	Up to four Six 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 Sparing; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; optional PCI Express-based RAID with PERC 6/i; toolless chassis; optional PCI Express-based Fibre Channel HBA; Baseboard Management Controller with IPMI 2.0
R900	High-performance rack-dense server	4U	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 Sparing; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; optional PCI Express-based RAID with PERC 6/i; toolless chassis; optional PCI Express-based Fibre Channel HBA; Baseboard Management Controller with IPMI 2.0
R815	4-socket rack server offering th. AMD Opteron processors with up to 48 processor cores and an excellent balance of advanced manageability, memory scalability, I/O, and redundancy	2U	Purpose-built to provide a reliable foundation and balanced with th. AMD Opteron processor technology optimized for stability, consistency, and outstanding price for performance. An ideal platform for customers looking to maximize data center space and budget	AMD Opteron™ 6100 Series	8GB/256GB	6PCIe + 1 storage slot	PERC H800 PERC 6/E 6 Gbps SAS HBA SAS 5/E LSI2032 (For TBU)	PERC H200 PERC H700	Two embedded Broadcom 5709C dual-port NICs	3TB	PowerVault™ Storage Dell EqualLogic Storage Dell/EMC Storage	DDR3 ECC memory, hot-swap hard drives, redundant power supplies, interactive LCD screen, Dual SD modules

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R810	High-density, 4-socket, 2U rack server that combines advanced management capabilities with leading price-per-performance features	2U	More processing power and more memory capacity to maximize workload Integrated systems management, Lifecycle Controller and embedded diagnostics to help maximize uptime FlexMem Bridge Technology—more memory per processor solves growing memory demand needs	Intel® Xeon® 7500 and 6500 Series	16GB/512GB DDR3 RDIMMs	6PCIe + 1 storage slot	PERC H800 PERC 6/E 6 Gbps SAS HBA SAS 5/E LSI2032 (For TBU)	PERC H200 PERC H700	Two embedded Broadcom® 5709C dual-port NICs	1.8TB	PowerVault™ Storage Dell EqualLogic™ Storage Dell/EMC Storage	DDR3 ECC memory, hot-swap hard drives, redundant power supplies, interactive LCD screen, Dual SD modules
R805	Designed from the ground up for balanced virtualization performance	2U	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® ESX™ server	Up to two Six Core AMD Opteron™ 2400 or 2300 Series Processor.	2GB – 128GB DDR2 SDRAM	Four PCIe 3 x8,* 1 x4 *Full x8 performance of one slot is application dependent	PERC 6/i, SAS 6/i/RAID (SAS or SATA support)	PERC 6/i SAS 6/i/R 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, toolless chassis, Cluster support
2970	Performance and availability with configuration flexibility	2U	High performance and availability in a rack-dense 2U form factor	Up to two Six-Core AMD Opteron™ 2400 or 2300 Series Processors	1GB – 64GB DDR2 SDRAM	Three PCIe, 2 x8, 1 x4	PERC 6/i, PERC 5/i, SAS 6/i/RAID or SAS 5/i	PERC 6/i PERC 5/i SAS 6/i/R 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, toolless chassis, Cluster support
R710	Intel® 5500 Series based 2U Rack	2U	The right combination of computing power, redundancy, scalability and flexibility in a rack dense 2U form factor	Up to two quad-core or six-core Intel® Xeon® 5500 or 5600 series processors	Up to 144GB (18 DIMM slots): 1GB/GB/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/i/R, 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/i/R	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; toolless chassis; fibre and SAS cluster support; validated for Dell/EMC SAN

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R610	Intel 5500 series based 1U Rack	1U	Highly available, general purpose server in a 1U rack-dense form factor	Up to two quad-core or six-core Intel® Xeon® 5500 or 5600 series processors	Up to 96GB (12 DIMM slots/ 6 per-processor): 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 1GBe 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. toolless chassis; fibre and SAS cluster support; validated for Dell/EMC SAN
R510	Multi-purpose 2-socket, 2U core application rack server	2U	Multi-purpose rack server offering an excellent balance of internal storage, redundancy, and value in a compact 24" deep chassis	Up to two quad-core or six-core Intel® Xeon® 5500 or 5600 series processors	Up to 64GB (8 DIMM slots): 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz or 1333MHz	Four total: One x8 slot Two x4 slot (both w/ x8 connectors) One Internal Storage x4 slot (w/ x8 connector, for integrated controller cards only)	Chipset-based SATA, SAS 5/E, LSI2032 (for tape only)	Optional PERC 6/i integrated controller card, PERC 6/E with 256MB or 512MB of battery-backed cache, SAS 6/iR integrated controller card, PERC S300 (software based) controller card, PERC S100 (software-based)	Embedded Dual-port Broadcom® NetXtreme™ II 5716 Gigabit Ethernet.	(4 HDD chassis) 4 x 1TB = 4TB SATA or 4 x 1TB = 4TB Near Line SAS or 4 x 600GB = 2.4TB SAS or 4x 50GB= 200GB SSD (8 HDD chassis) 8 x 1TB = 8TB SATA or 8 x 1TB = 8TB Near Line SAS or 8 x 600GB = 4.8TB SAS or 8x 50GB= 400GB SSD	Dell PowerVault™ Tape, SCSI, SAS, and Fibre Channel storage systems	DDR3 ECC memory, Quad-pack LED Diagnostic or LCD diagnostic (depends on the chassis configurations); TPM. hot-swap hard drives (with 8-HDD configuration); optional hot-swap redundant power supply (wit. 8-HDD configuration); optional PERC 6/i RAID controller with battery-backed cache; toolless chassis
R410	High-value, high-performing 2 socket 1U server	1U	The right balance of features for the HPCC environment in compact 24" deep chassis.	Up to two quad-core or six-core Intel® Xeon® 5500 or 5600 series processors	Up to 64GB (8 DIMM slots). 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz, 1333MHz	1 PCIe x 16 (True x16, Gen2), 1 Proprietary for SAS 6/iR Modular card only	Chipset based SATA, SAS 5/E, LSI2032 (for tape only)	Optional PERC 6/i, PERC 6/E with 256MB or 512MB of battery-backed cache, SAS 6/iR	Embedded Dual-port Broadcom® NetXtreme™ II 5716 Gigabit Ethernet	4 x 1TB = 4TB SATA or 4 x 1TB = 4TB Near Line SAS or 4 x 600GB = 2.4TB SAS or 4x 50GB= 200GB SSD	Dell PowerVault™ Tape, SCSI, SAS, and Fibre Channel storage systems	DDR3 memory, Quad-pack LED Diagnostic or LCD diagnostic with hot-swap HDD chassis; TPM; optional hot-swap hard drives; optional hotswap redundant power supply; optional PERC 6/i RAID controller with battery-backed cache; toolless hot-swap hard drivechassis

Dell™ PowerEdge™ Rack Servers

Racks

	Description	Form Factor	Benefits	Processor(s)	RAM (min/max)	PCI slots	Drive Controllers	RAID Controllers	Integrated NIC	Max. Internal Storage	External Storage	Availability Features
R310	Ultra-dense 1-socket 1U rack server well suited for single-tier architectures and networking, file-and-print, and shared internet access, web and edge-of-network applications	1U	The Dell PowerEdge R310 has the right combination of computing power and redundancy, ideal for space constrained IT environments. Features lower wattage power supplies, additional security and data protection options and ease of deployment	Single socket, Intel® Xeon® 3400 series processor, Quad-Core	1GB, DIMM Module 2GB, DIMM Module 4GB, DIMM Module 8GB, DIMM Module	2 PCIe slots Slot1, X16, Full height, Half length Slot2, X8, PCIe 2.0 (5GT/s), Full height, Half length	SAS 5/E (Field Support Only – No Factory Install) LSI2032 (For TBU) 6Gb/s SAS HBA	PERC H800 or PERC H800 NV X8 PERC 6/E 256MB x8 PERC 6/E 512MB x8 6Gbs SAS HBA X8 SAS 5/E x8	Dual embedded GbE LOMs with out TOE	4 x 2TB SATA or 4 x 2TB near-line SAS or 4 x 100GB SSD*	Dell PowerVault™ Tape	DDR3 ECC memory, hot-swap hard drives, redundant power supplies, quad-pack LED diagnostic / LCD
R300	High-performance, high-availability rack-dense server	1U	Highest performance and processor in 1S 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, toolless chassis, front panel diagnostic LCD
R210	Ultra-compact 1-socket, 1U entry rack server	1U	Entry rack server featuring advanced management capabilities, low wattage power supply and external storage connectivity options in a small chassis	One Quad-Core Intel Xeon Processor 3400 Series	Up to 16GB (4 U-DIMMs): 1GB/2GB/ 4GB DDR3 1066MHz or 1333MHz	One total: One PCIe x16 G2 slot	SAS 5/E, LSI2032 (for tape only)	SAS 6/iR Adapter PERC S100 (software based) PERC S300 (software based) PERC 6/E with 256MB or 512MB of battery-backed cache	Embedded Dual-port Broadcom® NetXtreme™ II 5716 Gigabit Etherne.	2TB of SATA drives 1.2TB of SAS drives 100GB of SSD drives	Dell PowerVault™ Tape, SCSI, SAS storage systems and USB or e-SATA external storage devices	DDR3 ECC memory, SW RAID, TPM/ TCM; Quad-pack LED diagnostic; toolless chassis
R200	Rack-dense server	1U	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 2 x 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

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 for performance.



Dell™ PowerEdge™ Tower Servers

Towers

	Description	Form Factor	Benefits	Processor(s)	RAM (min/max)	PCI slots	Drive Controllers	RAID Controllers	Integrated NIC	Max. Internal Storage	External Storage	Availability Features
T710	Highest performance tower server	Tower or 5U Rack-mountable	Full redundancy, leading availability ideal for enterprise, remote workgroups and growing businesses	Up to two quad-core or six-core Intel® Xeon® 5500 or 5600 series processors	Up to 192GB (18 DIMM slots): 1GB/2GB/4GB/8GB/16G. DDR3 800MHz, 1066MHz or 1333MHz	1 PCIe x16 + 4 PCIe x8 + 1 PCIe x4 (all G2)	PERC6/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	Dual embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing (4 total ports).	Up to 8TB SATA, Near Line SAS, SAS, or SSD	SAS, SCSI and Fibre Channel storage systems	DDR3, hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support (4 total ports); optional PERC6/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; toolless chassis; fibre and SAS cluster support; validated for Dell/EMC SAN
T610	Mainstream 2S tower	Tower or 5U Rack-mountable	High-performance, high-availability and energy-efficient 2S server that is compact and quiet	Up to two quad-core or six-core Intel® Xeon® 5500 or 5600 series processors	Up to 192GB (12 DIMM slots/ 6 per-processor): 1GB/2GB/4GB/8GB/16GB 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 1GBe and 10GBe add-in NICs	Up to 16TB 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; toolless 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; toolless chassis; high-availability Dell/EMC Fibre Channel and PowerVault™ SCSI cluster support; optional PERC 5/i integrated RAID controller with battery-backed cache
T410	High value, flexible tower	Tower only (5U rack via 3rd party tray)	Enhanced performance in a compact, quiet design	Latest Dual-Core or Quad-Core Intel® Xeon® 5500 Series Processors	Up to 64GB (8 DIMM slots*): 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz or 1333MHz	4 PCIe x 8 (x4 routing), 1 PCIe x 16 (x8 routing)	Chipset based SATA, SAS 5/E, LSI2032 (for tape only), SAS 5/iR (for tape only)	Optional PERC 6/i, PERC 6/E with 256MB or 512MB of battery-backed cache, SAS 6/iR	Embedded Dual-port Broadcom® NetXtreme II™ 5716 Gigabit Ethernet	6 x 1TB = 6TB SATA or 6 x 1TB = 6TB Near Line SAS or 6 x 600GB = 3.6TB SAS or 6x 50GB= 300GB SSD	Dell PowerVault™ Tape, SCSI, SAS, and Fibre Channel storage systems	Quad-pack LED Diagnostic or LCD diagnostic with hot-swap HDD chassis; TPM; optional hot-swap hard drives; optional hotswap redundant power supply; optional PERC 6/i RAID controller with battery-backed cache; toolless chassis
T310	Robust, reliable enterprise-class 1-socket tower	Tower	Enterprise-class tower server featuring advanced manageability, redundancy and scalability	One Quad-Core Intel® Xeon® Processor 3400 Series	Up to 32GB (R-DIMM only): Support 6 R-DIMMs or 4 U-DIMMs, 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz or 1333MHz	5 total: Two x8 slot, (one with x16 connector) One x4 slot (with x8 connector) Two x1 slots	Chipset based SATA, SAS 5/E, LSI2032 (for tape only), SAS 5/iR (for tape only)	Optional PERC 6/i, PERC 6/E with 256MB or 512MB of battery-backed cache, SAS 6/iR Adapter, PERC S300 (software based), PERC S100 (software based)	One Dual-Port Broadcom® NetXtreme II 5716 Gigabit Ethernet	4TB of SATA drives 2.4TB of SAS drives 200GB of SSD drives	Dell PowerVault™ Tape, SCSI, and SAS storage systems	DDR3 ECC memory, SW RAID, TPM/TCM, Redundant PSU; Quad-pack LED diagnostic / LCD with Hot-swap HDD chassis, Hot-swap HDD; toolless chassis

Dell™ PowerEdge™ Tower Servers

Towers

	Description	Form Factor	Benefits	Processor(s)	RAM (min/max)	PCI slots	Drive Controllers	RAID Controllers	Integrated NIC	Max. Internal Storage	External Storage	Availability Features
T300	Performance and high-availability 1S tower server	Tower	Highest performance and processor in 1S 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 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, toolless chassis, front panel diagnostic LCD
T110	Ideal first server for small business	Tower	Entry tower server—great for file sharing, centralization and office collaboration	One Quad-Core Intel Xeon Processor 3400 Series	Up to 16GB (4 U-DIMMs): 1GB/2GB/4GB DDR3 1066MHz or 1333MHz	Four total: Two x8 slot, (one with x16 connector) One x4 slot (with x8 connector) One x1 slot	SAS 6/iR, SAS 5/E, LSI2032 (for tape only)	SAS 6/iR Adapter, PERC S300 (software based), PERC S100 (software based)	One Single-Port Broadcom® 5722 Gigabit Ethernet	4TB of SATA drives 2.4TB of SAS drives	Dell PowerVault™ Tape, SCSI, SAS storage systems and USB or e-SATA external storage devices	DDR3 ECC memory, SW RAID, TPM/ TCM, quad pack LED lights, toolless chassis
T105	Basic 1S tower server	Tower	Provides th. 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 6i/R), Quad-pack LED Panel
T100	Basic 1S 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 6i/R), 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
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® 1Gb/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 command line interfaces; front control panel with interactive LCD for module setup, info, and troubleshooting

Dell™ PowerEdge™ M1000e 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	Virtualization-optimized 4-socket blade server	Full-height blade; Up to 8 fit into an M1000e enclosure	The M910 is ideal for the demanding applications at the core of most data centers, such as large databases, virtualization and messaging infrastructure.	Up to Four Intel® Xeon® 7500 series Quad-, Six-, or Eight-Core processors; or, Up to Two Intel® Xeon® 6500 series Quad-, Six-, or Eight-Core processors	1GB/2GB/4GB/8GB/16GB ECC DDR3	4 mezzanine card slots for up to 3 fully redundant, highly available I/O fabrics	SAS 6/iR CERC 6/i	PERC H200 PERC H700	Four embedded Broadcom® Gigabit NICs with TOE and iSCSI Firmware Boot	2 x 500GB = 1TB SAS	Dell EqualLogic™ Dell PowerVault™ Dell/EMC fibre channel and/or iSCSI storage	Three USB 2.0 bootable ports on front panel for floppy, CD/ DVD, memory key, keyboard/ mouse; Integrated Dell Remote Access Controller (iDRAC); Integrated Dell LifeCycle Controller; Optional Redundant Embedded Persistent Storage for Virtualization Hypervisor
	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	Up to two Six-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 500GB = 1TB 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
	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	Up to two Six 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 500GB = 1TB 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

Dell™ PowerEdge™ M1000e Blade Servers (cont.)

	Description	Form Factor	Benefits	Processor(s)	RAM (min/max)	Mezzanine Slots	Drive Controllers	RAID Controller	Integrated NIC	Max. Internal Storage	External Storage	Availability Features
M710	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 six-core Intel® Xeon® 5500 or 5600 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 500GB = 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 (iDRAC6); flexible I/O options include 1/10 Gigabit Ethernet, 4/8Gb Fibre Channel, and DDR or QDR InfiniBand; Integrated Persistent Storage for Virtualization
M610	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 six-core Intel® Xeon® 5500 or 5600 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 500GB = 1TB SAS 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 (iDRAC6); 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 Six 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 500GB = 1TB SAS 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

PowerEdge Cloud Servers

Your Apps, Our Horsepower

Hyperscale-inspired servers designed to bring the most compute power in the least amount of space. These servers have the right combination of features for your scale-out environment, and nothing more.



Dell™ PowerEdge™ Cloud Servers

	Description	Form Factor	Benefits	Processor(s)	RAM (min/max)	PCI slots	Drive Controllers	RAID Controllers	Integrated NIC	Max. Internal Storage**	Availability Features	
Cloud Servers	C1100	Designed to meet the demands of dense data center environments, the high-performance PowerEdge C1100 offers massive memory and disk storage in a space-efficient 1U form factor	2-socket, 1U rackmount	<p>2x memory over previous Intel® generations</p> <p>Save 60% over a system that has 8 DIMM slots for 64Gb of memory</p> <p>More hard drive in 1.7". At only 1U high, choose from high-capacity SATA, high-performance 6Gb SAS or enterprise-class SLC SSDs to create the optimal storage for your applications</p>	Six-core Intel® Xeon® 5600 series Quad-core Intel® Xeon® 5500 and 5600 series	Up to 144GB (18 DIMM slots): 2GB/4GB/8GB DDR3, 1066MHz or 1333MHz.	3 PCIe G2 slots: 1 x 16 PCI Express Gen2 slot, 1 proprietary mezzanine for dual port 10GbE daughtercard, 1 proprietary mezzanine for LSI 1068E SAS daughtercard	ICH10R, LSI 2008 SAS daughtercard	LSI MegaRAID 9260-8i, PERC H700	Intel 82576 - 2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port	8TB SATA or NL 6Gb SAS	DDR3 ECC memory, hot-swap hard drives, redundant power supplies
		A data monster with more memory and disk capacity to get results faster. The most drives with the most memory in the most popular 2U form factor	2-socket, 2U rackmount	<p>2x memory over previous Intel generations</p> <p>Save 60% over a system that has 8 DIMM slots for 64Gb of memory</p> <p>The right mix: The mix of disk configurations and backplane options allow you to select the combination of components that best matches your needs</p>	Six-core Intel® Xeon® 5600 series Quad-core Intel® Xeon® 5500 and 5600 series	Up to 144GB (18 DIMM slots): 2GB/4GB/8GB DDR3, 1066MHz or 1333MHz.	4 PCIe G2 slots: 2 x 8 PCI Express Gen2 slots, 1 proprietary mezzanine for dual port 10Gb Ethernet daughtercard, 1 proprietary mezzanine for LSI 2008 SAS daughtercard	ICH10R, LSI 2008 SAS daughtercard	PERC H200, PERC H700, LSI MegaRAID 9260-8i	Intel 82576 - 2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port	25TB SATA or 24TB NL SAS	DDR3 ECC memory, hot-swap hard drives, redundant power supplies
		Ultra-dense 2U shared infrastructure supporting up to 4 independent server nodes, providing capacity, performance and flexibility in a dense eco-friendly package	4 x 2-sockets in a 2U rackmount	<p>2x density of traditional 1U servers</p> <p>20% more dense than blades</p> <p>30% more storage than comparable HP servers</p> <p>Shared infrastructure uses less floor space, power and cooling</p> <p>Service individual nodes to increase uptime by up to 75%</p> <p>92% efficient hot-plug redundant power supplies</p>	Six-core Intel® Xeon® 5600 series Quad-core Intel® Xeon® 5500 and 5600 series	Up to 96GB (12 DIMM slots): 2GB/4GB DDR3, 1066MHz or 1333MHz	1 PCIe x 8 mezzanine daughtercard slot and x16 riser slot	LSI 1068e 3GB SAS/LSI 2008 6GB SAS mezzanine	LSI 8708/LSI9260-8i add-in RAID controller	Intel 82576 - 2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port	12TB SATA or 24TB NL SAS	DDR3 ECC memory, independent hot-swap nodes and hard drives, two shared hot-plug power supplies

At Dell, we
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