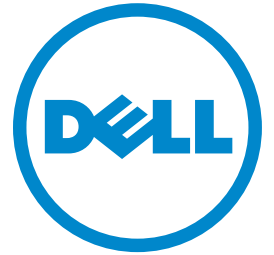


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# Dell PowerEdge Servers Portfolio Guide

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**Dell PowerEdge servers  
and the power to do  
more:**

Achieve more, maximize efficiency, and ensure business continuity with Dell PowerEdge servers, the foundation for adaptive IT solutions.

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# With Dell, you can do more

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Dell™ PowerEdge™ servers are built to support the work that IT organizations do. They are engineered to handle the most demanding business applications and designed with specific features to better run workloads like HPC, collaboration, database, ERP, business intelligence and data warehousing.

As the foundation for a complete, adaptive IT solution, Dell PowerEdge servers deliver dramatic performance and management advantages that more effectively and efficiently power the business applications our customers run most.

Combined with innovative iDRAC systems management and industry-leading workload solutions, PowerEdge servers provide technology that is intelligent, yet simple, giving you the power to do more in even the most complex environments.

## Achieve more

Increase application performance and availability while gaining scalability.

## Maximize efficiency

Use IT to boost productivity and get the most out of every dollar.

## Ensure business continuity

Provide secure, continual access to IT services that power your business.



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# PowerEdge servers

## Engineered by Dell, designed by you

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PowerEdge servers are customer inspired and purpose built. We spend countless hours listening to customers and then put our time and expertise into giving you the features you need to accomplish more, improve efficiency, and ensure business continuity. Our latest generation of PowerEdge servers deliver innovations like:

- **Express Flash PCIe solid-state drives**—offer more transactions per second, resulting in faster interactions
- **Agent-free server management**—uses the integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller, providing significant reductions in administration time
- **The Dell fresh air program**—allows servers to run at much higher ambient temperatures, saving tremendous operational costs
- **More widely integrated GPU technology**—provides accelerated HPC research with high sustained GFlops

Our latest generation of servers responds to customer needs in the following areas:

- **Memory capacity and scalability**—much larger memory footprints
- **Virtualization performance**—more processor cores and denser memory
- **Systems management**—complete lifecycle management using iDRAC with Lifecycle Controller
- **Energy efficiency**—comprehensive optimizations, including Dell OpenManage™ Power Center
- **Infrastructure flexibility**—innovations like Select Network Adapters, offering more and better I/O options
- **Reliability**—even more RAS features, including a failsafe hypervisor option on most servers

Dell PowerEdge servers deliver value by taking technology that was previously overpriced, complex and underutilized, and giving you the power to do more while saving time, money and resources.

# The newest generation of Dell PowerEdge servers



## PowerEdge R320

An enterprise-class, 1-socket, 1U rack-mount server, with the right computing power, scalability and value balanced in a high-performance, dense chassis.



## PowerEdge R620

A hyper-dense 2-socket, 1U rack-mount server with a large memory footprint and impressive I/O options that make it an exceptional platform for space-sensitive environments.



## PowerEdge R420

A 2-socket, 1U rack-mount server that delivers mainstream performance and density combined with internal expandability for customized workloads.



## PowerEdge R720xd

An ultra-dense, 2-socket, 2U rack-mount server with massive internal storage and performance balanced for data-intensive operations.



## PowerEdge R520

A powerful, 2-socket, 2U rack-mount server that balances performance with storage expandability for data-intensive applications.



## PowerEdge R720

Setting the standard for feature flexibility in a 2-socket, 2U rack-mount server and built to run complex workloads using its highly scalable memory, I/O capacity and flexible network options.



## PowerEdge R820

A high-performance, 4-socket, 2U rack-mount server designed for dense virtualization and scalable database applications for both mid-size and large enterprise environments.



## PowerEdge C6220

Compact 2U shared infrastructure rack server designed for performance, density, and flexibility, supporting up to four independent server nodes.

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# The newest generation of Dell PowerEdge servers

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## PowerEdge T320

Designed for a broad range of workloads and applications, this quiet, 1-socket tower delivers performance, reliability and value for a wide range of applications.



## PowerEdge T420

A powerful, 2-socket tower server that delivers performance, expandability, and reliability with a built-in capacity for non-disruptive growth in a quiet office setting.



## PowerEdge T620

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

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# The newest generation of Dell PowerEdge servers

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## PowerEdge M420

A quarter-height blade server that delivers unprecedented computational density, allowing up to 32 individually serviceable 2-socket blade servers per chassis, with no compromise on enterprise-class features.



## PowerEdge M520

An enterprise-class 2-socket, half-height blade server that delivers an extraordinary balance of value and performance for mainstream business applications.



## PowerEdge M620

An exceptionally feature-rich 2-socket blade server designed for maximum performance combined with extreme density and power efficiency.



## PowerEdge M820

A full-height 4-socket blade server that delivers exceptional performance and scalability for core business applications or consolidated environments.

# Dell PowerEdge servers



## PowerEdge R210 II

PowerEdge R210 II is an entry-level, yet enterprise ready, ultra-dense 1-socket 1U rack server that is well suited for single-tier architectures, workloads and SMB applications.



## 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 mid-size businesses, remote offices and enterprises.



## PowerEdge R410

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



## PowerEdge R415

A 2-socket rack server with enterprise-class features offering a great balance of AMD™ Opteron™ processing power and value with up to 16 cores in a 1U form factor.



## 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.



## PowerEdge R515

An AMD processor-based 2-socket rack server offering immense amounts of local storage capacity, enterprise-class features and excellent price/performance with up to 16 cores in a 2U form factor.



## PowerEdge R610

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



## 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.

# Dell PowerEdge servers



## PowerEdge R715

A 2-socket rack server powered by the latest AMD Opteron processors and offering excellent price/performance in a 2U form factor.



## 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 R815

A 4-socket rack server offering the latest AMD Opteron processors with up to 64 processor cores and an excellent balance of advanced manageability, memory scalability, I/O and redundancy in a space-saving 2U form factor.



## PowerEdge R910

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



## PowerEdge T110 II

An ideal first server for small business with the right combination of value, reliability, collaboration and data protection features to improve your business continuity and productivity.



## PowerEdge T310

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



## PowerEdge T410

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



## PowerEdge T610

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



## PowerEdge T710

A 2-socket, 5U tower server that offers high internal storage capacity and enhanced system performance with more virtual machine per server capacity than previous generations.



# Dell PowerEdge servers



## PowerEdge M610

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



## PowerEdge M710

A 2-socket, dual-and quad-core, full-height blade server that is ideal for I/O-intensive applications, virtualization and compute-intense, business-critical applications.



## PowerEdge M610x

A full-height, 2-socket blade server with PCIe expansion capabilities that bring flexibility and performance to the Dell M-Series.



## PowerEdge M710HD

Virtualization-optimized, half-height 2-socket server that offers tremendous I/O throughput, maximized memory density and robust Intel® Xeon® processing power with hot-pluggable SAS or SSD hard drives.



## 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 M915

A full height, 4-socket AMD processor-based blade server with robust performance, flexibility and throughput for maximized performance per watt and cost.

# Dell PowerEdge C servers



## 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 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 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 C6105

A 4-node 2U shared infrastructure AMD Opteron series processor-based hyperscale server designed to maximize performance per watt per dollar.



## PowerEdge C6145

One of the highest performing servers ever, with two 4-socket AMD Opteron 6200 series processor-based servers in a hyper-efficient 2U; with 10 PCIe slots to ramp up expansion possibilities.



## PowerEdge C5000 Chassis

Up to 12 single-socket servers fit in this 3U rack chassis. Ideal for scale-out power and space-sensitive environments, this server was designed for those looking to increase revenue per square foot in their data centers.



## PowerEdge C5125 Microserver

Up to 12 hot-plug, AMD processor-based server nodes in a 3U C5000 chassis. Ideal for dedicated hosting, Web 2.0, content delivery networks (CDN) and other applications that are not very compute intensive or complex, yet benefit from compute density and power efficiency.



## PowerEdge C5220 Microserver

Up to 12 Intel processor-based server nodes in a shared-infrastructure C5000 chassis. This microserver provides more density with less to cool. Designed for lightweight workloads like virtualized hosting and CDN, the PowerEdge C5220 8-sled version has a mezzanine card slot for SAS drives, hardware RAID or an extra dual-port 1GbE NIC.

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# PowerEdge rack servers

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## 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	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R910	The PowerEdge R910 is an Intel processor-based, 4-socket, 4U rack server for mission-critical applications in corporate data centers and workloads needing the highest performance, reliability and I/O scalability.	4U	4-socket, up to 10-core Intel processors Up to 16 hard drives 64 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor 7500 series Intel Xeon processor E7-4800 and E7-8800 product families	Up to 2TB Up to 1066 MT/s	Up to 10 PCIe 2.0 + 1 storage	PERC H200 PERC H700 PERC H800	Two embedded Broadcom® 5709C dual-port NICs	Up to sixteen hot-plug 2.5" SATA SSD, SAS, nearline SAS, or SATA drives	Hot-plug hard drives, hot-plug redundant power, hot-plug redundant fans, ECC memory, internal dual SD module, redundant cooling
R820	The PowerEdge R820 is an Intel processor-based, 4-socket, 2U rack server designed for dense virtualization an scalable database applications.	2U	4-socket, 4-, 6-, or 8-core Intel processors Up to 16 hard drives 48 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-4600 product family	Up to 1.5TB Up to 1600 MT/s	7 PCIe 3.0	PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter— minimum configuration: 4 x 1Gb; 10GbE (optional)	Up to 16 2.5" hot-plug SATA SSD, SAS, nearline SAS, or SATA drives	High-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; hot-plug redundant fan; optional bezel; luggage-tag; ECC memory, interactive LCD screen; extended thermal support; ENERGY STAR® compliant; switch independent partitioning
R815	The PowerEdge R815 is an AMD processor-based 4-socket, 2U rack server ideal for customers seeking a combination of value, systems management and performance in virtualization, database, HPC and other highly threaded application implementations.	2U	4-socket, up to 64 AMD processor cores Up to 6 hard drives 32 DDR3 DIMM slots Advanced systems management Redundancy options	AMD Opteron 6100 and 6200 series processors	Up to 1TB Up to 1600 MT/s	6 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC H800 PERC 6/E	Two embedded Broadcom 5709C dual-port NICs	Up to six 2.5" hot-plug SATA SSD, SAS, nearline SAS, or SATA drives	Hot-plug hard drives, hot-plug redundant power, dual SD modules, ECC memory, interactive LCD screen
R810	The PowerEdge R810 is an Intel processor-based 2- or 4-socket, 2U rack server ideal for usage in data centers and remote sites needing optimal performance and memory scalability for mission-critical applications in an efficient 2U form factor.	2U	2- or 4-socket, up to 10-core Intel processors Up to 6 hard drives 32 DDR3 DIMM slots Unique Dell FlexMem Bridge memory expansion technology Advanced systems management Redundancy options	Intel Xeon processor 7500 and 6500 series Intel Xeon processor E7-2800, E7-4800 and E7-8800 product families	Up to 1TB Up to 1066 MT/s	6 PCIe 2.0 + 1 storage	PERC H200 PERC H700 PERC 800 PERC 6/E	Two embedded Broadcom 5709C dual-port NICs	Up to six hot-plug 2.5" SATA SSD, SAS, nearline SAS, or SATA drives	Hot-plug hard drives, hot-plug redundant power, ECC memory, dual internal SD module
R720xd	The PowerEdge R720xd is ideal for workloads that are hungry for storage and I/O performance, like medical imaging and email servers, and is a powerful combination of highly expandable memory, impressive I/O capabilities and extraordinary storage capacity.	2U	2-socket, 2-, 4-, 6- or 8-core Intel processors Up to 26 hard drives 24 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	6 PCIe 3.0	PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter— minimum configuration: 4 x 1Gb, 10GbE (optional)	Up to twenty-six hot-plug 2.5" SAS, SATA or SSD drives	High-efficiency, hot-plug redundant PSU, hot-plug drive bays, TPM/No-TPM; dual internal SD support, hot-plug redundant fan, optional bezel, luggage-tag, ECC memory, extended thermal support, ENERGY STAR® compliant, switch independent partitioning

## Dell PowerEdge rack servers

Racks

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R720	The PowerEdge R720 is designed to excel at running a wide range of applications and virtualization environments for both mid-size and large enterprises. R720 is a general purpose platform with expandable memory up to 768GB and impressive I/O capabilities to match.	2U	2-socket, 2-, 4- 6- or 8-core Intel processors Up to 16 hard drives 24 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	7 PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter—minimum configuration: 4 x 1Gb, 10GbE (optional)	Up to eight hot-plug 3.5" SAS or SATA drives; up to sixteen 2.5" SAS, SATA, SSD drives Up to four Express Flash PCIe SSDs	High-efficiency, hot-plug redundant PSU, hot-plug drive bays, TPM/No-TPM; dual internal SD support, hot-plug redundant fan, optional bezel, luggage-tag, ECC memory, interactive LCD screen, extended thermal support, ENERGY STAR compliant, switch independent partitioning
R715	The PowerEdge R715 is an AMD processor-based 2-socket, 2U rack server ideal for customers seeking value, systems management, and great price for performance in workload consolidation, virtualization, medium databases and other applications.	2U	2-socket, 4-socket, up to 32 AMD processor cores Up to 6 hard drives 16 DDR3 DIMM slots Advanced systems management Redundancy options	AMD Opteron 6100 and 6200 series	Up to 512GB Up to 1333 MT/s	6 PCIe 2.0 + 1 storage	PERC H200 PERC H700	Two embedded Broadcom® 5709C dual-port NICs	Up to six hot-plug 2.5" SAS, SATA or SSD drives	Hot-pluggable hard drives, hot-pluggable redundant power supply, internal dual SD module, ECC memory, interactive LCD screen
R710	The PowerEdge R710 is a mainstream Intel processor-based 2-socket, 2U rack server great for server rooms or corporate data centers and remote sites that require exceptional virtualization, systems management and energy efficiency.	2U	2-socket, 4- or 6-core Intel processors Up to 8 hard drives 18 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 288GB Up to 1333 MT/s	4 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC 800 PERC 6/i	Four embedded Broadcom® 5709C Gigabit Ethernet NICs	Up to six hot-plug 3.5" SAS or SATA drives Up to eight hot-plug 2.5" SAS, SATA or SSD drives	Hot-plug hard drives, optional hotplug redundant power supplies, dual embedded NICs with failover and load-balancing support, PERC 6/i, hot-plug redundant cooling, toolless chassis; fibre and SAS cluster support, validated for Dell/EMC SAN
R620	The PowerEdge R620 is a hyper-dense 2-socket, 1U rack server with a large memory footprint and impressive I/O options that make it an exceptional platform for space-sensitive environments.	1U	2-socket, 2-, 4- 6- or 8-core Intel processors Up to 10 hard drives 24 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	Up to 3 PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Select Network Adapter—minimum configuration: 4 x 1Gb	Up to ten 2.5" hot-plug SAS, SATA, or SSD drives or up to four hot-plug 2.5" SAS, SATA, or SSD + two Express Flash PCIe SSDs	High-efficiency, hot-plug, redundant power supplies, DC power supplies, hotplug hard drives, TPM, dual internal SD support, hot-plug redundant fans, optional bezel, luggage-tag, ECC memory, interactive LCD screen, extended thermal support, ENERGY STAR compliant, switch independent partitioning
R610	The PowerEdge R610 is an Intel processor-based 2-socket, 1U rack server well-suited for server rooms or corporate data centers and remote sites that require exceptional virtualization, systems management and energy efficiency.	1U	2-socket, 4- or 6-core Intel processors Up to 6 hard drives 12 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 192GB Up to 1333 MT/s	2 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC H800 PERC 6/E	Two embedded Broadcom 5709C Gigabit Ethernet NICs	Up to six 2.5" SAS, SATA or SSD drives	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

## Dell PowerEdge rack servers

### Racks

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R520	The PowerEdge R520 is an Intel processor-based 2-socket, 2U rack server designed for demanding workloads with an excellent balance of processing power, storage power, and redundancy.	2U	2-socket, 4-, 6-, or 8-core processors Up to 8 hard drives 12 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family	Up to 192GB Up to 1600 MT/s	4 PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Two embedded Broadcom 5720 Gigabit Ethernet NICs	Up to eight hot-plug 3.5" SAS or SATA drives Up to eight hot-plug 2.5" SAS, SATA or SSD drives	High-efficiency, hot-plug, redundant power supplies; DC power supply; hot-plug hard drives; TPM; dual internal SD support; fan fault tolerance; optional bezel; luggage tag; ECC memory, interactive LCD screen; ENERGY STAR® compliant; extended power range; switch independent partitioning
R515	The PowerEdge R515 is an AMD processor-based 2-socket, 2U rack server that is great for department, branch or small business database tasks, email, virtualization, workload consolidation and business applications with large storage requirements.	2U	2-socket, 4- or 6-core AMD processors Up to 12 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	AMD Opteron 4100 and 4200 series	Up to 128GB Up to 1600 MT/s	3 PCIe 2.0+ 1 storage	PERC H200 PERC H700 PERC S300 PERC H800	One embedded Broadcom 5716 Gigabit Ethernet NIC	Up to eight or twelve 2.5" or 3.5" SAS, SATA or SSD hard drives + two 2.5" internal cabled hard drives	Hot-plug hard drives, hot-plug redundant power, ECC memory, and quad-pack LED diagnostic or interactive LCD (only with 8 hard drive chassis)
R510	The PowerEdge R510 is an Intel processor-based 2-socket, 2U rack server ideal for department, branch or small business database tasks, email, virtualization, workload consolidation and core business applications with large, local storage needs.	2U	2-socket, 4- or 6-core Intel processors Up to 12 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 128GB Up to 1333 MT/s	3 PCIe 2.0+ 1 storage	PERC 6/i PERC 6/E SAS 6/iR PERC S100 PERC S300 PERC H200 PERC H700 PERC H800	One embedded Broadcom 5716 Gigabit Ethernet NIC	Up to four cabled 3.5" SAS or SATA drives Up to eight or twelve hot-plug 3.5" SAS or SATA or 2.5" SAS or SSD drives + two 2.5" internal cabled hard drives	Hot-plug hard drives, hot-plug redundant power, ECC memory, quad-pack LED lights, LCD display screen, and redundant cooling (availability of some features dependent on chassis selected)
R420	The PowerEdge R420 is an Intel processor-based 2-socket, 1U rack server offering value with internal expandability for dense workloads supporting growth through the life of the server.	1U	2-socket, 4-, 6-, or 8-core processors Up to 8 hard drives 12 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family	Up to 192GB Up to 1600MT/s	2 PCIe 3.0 + 1 storage	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	Two embedded Broadcom NetXtreme 5720 Gigabit Ethernet NICs	Up to four cabled 3.5" SAS or SATA drives Up to four hot-plug 3.5" SAS or SATA or eight 2.5" SAS or SATA SSD drives	High-efficiency, hot-plug, redundant power supplies; hot-plug hard drives; TPM; dual internal SD support; fan fault tolerance; optional bezel; luggage tag; ECC memory, interactive LCD screen; ENERGY STAR® compliant
R415	The PowerEdge R415 is an AMD processor-based 2-socket, 1U rack server suited for small and medium businesses and data centers run-the-business functions such as IT infrastructure, file/print, web, email, select HPC usage and entry virtualization needs.	1U	2-socket, 4- or 6-core AMD processors Up to 4 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	AMD Opteron 4100 and 4200 series	Up to 128GB Up to 1600MT/s	1 PCIe 2.0 + 1 storage	PERC H200 PERC H700 PERC H800 SAS 6/iR PERC S300	One embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Up to four cabled 3.5" SAS or SATA drives Up to four hot-plug 3.5" SAS or SATA or 2.5" SAS or SATA SSD drives	Hot-plug hard drives, hot-plug redundant power, ECC memory, and quadpack LED diagnostic or interactive LCD only with hot-plug HDD chassis

## Dell PowerEdge rack servers

### Racks

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
R410	The PowerEdge R410 is an Intel processor-based 2-socket, 1U rack server with advanced systems management and redundancy options for small and medium business to larger enterprise business applications, select HPC usage and entry virtualization needs.	1U	2-socket, 4- or 6-core Intel processors Up to 4 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 128GB Up to 1333MT/s	1 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC 6/E PERC S100 PERC S300 PERC H800	One embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Up to four cabled 3.5" SAS or SATA drives Up to four hot-plug 3.5" SAS or SATA or 2.5" SAS or SATA SSD drives	Hot-plug hard drives, hot-plug redundant power, ECC memory, and quad-pack LED diagnostic or interactive LCD only with toolless hot-plug hard drive chassis, TPM
R320	The Dell PowerEdge R320 is an enterprise-class, 1-socket, 1U rack-mount server designed to deliver the right combination of performance, redundancy and value in a dense chassis.	1U	1-socket, 2-, 4-, 6-, or 8-core Intel processors Up to 8 hard drives 6 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family Intel Xeon Processor E5-1410	Up to 96GB Up to 1600MT/s	1PCIe 2.0 and 1PCIe 3.0	PERC S110 PERC H310 PERC H710 PERC H810	Two embedded Broadcom NetXtreme 5720 Gigabit Ethernet NICs	Cabled: Up to four 2.5" SAS or SATA drives Hot-plug: Up to eight 2.5" SAS SSD or SATA drives or four 3.5" SAS or SATA drives	Hot-plug hard drives, hot-plug redundant power supplies, DDR3 ECC memory, and diagnostic LED or an interactive LCD display screen
R310	The PowerEdge R310 is an Intel processor-based enterprise-class 1-socket rack server that provides advanced systems management and redundancy options for web, email, SAN proxy, DHCP server, video streaming, security, and file/print services.	1U	1-socket, dual- or quad-core Intel processors Up to 4 hard drives 6 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processors 3400 series Intel Celeron® G1101 Intel Pentium® G6950 Intel Core™ i3 processor 500 series	Up to 32GB Up to 1333MT/s	2 PCIe 2.0	PERC H200 PERC H700 SAS 6/iR PERC S100 PERC S300 PERC H800	One embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Up to four cabled 3.5" SAS or SATA drives Up to four hot-plug 3.5" SAS or SATA or 2.5" SAS or SATA SSD drives	Quad-pack LED diagnostics, ECC Memory, add-in RAID, TPM/TCM
R210 II	PowerEdge R210 II is an entry-level, yet enterprise ready, ultra-dense 1-socket 1U rack server that is well suited for single-tier architectures, workloads and SMB applications.	1U	1-socket, dual- or quad-core Intel processors Up to 2 hard drives 4 DDR3 DIMM slots Optional advanced systems management eSATA external storage connectivity option	Intel Xeon processor E3-1200 product family Intel Core processor i3-2100 product family	Up to 32GB Up to 1333MT/s	1 PCIe 2.0	PERC H200 PERC S100 PERC S300	One embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Up to two cabled 3.5" SAS or SATA or up to four 2.5" SAS or SSD drives	

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# PowerEdge tower servers

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## 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 tower servers 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	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
T710	The PowerEdge T710 is an Intel processor-based 2-socket tower server that offers remote sites, large business units and growing businesses robust virtualization and server consolidation features, outstanding scalability and advanced systems management.	Tower or 5U rack	2-socket, 4- or 6-core Intel processors Up to 16 hard drives 18 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 192GB Up to 1333MT/s	6 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC S100 PERC S300	Two embedded Broadcom 5709C Gigabit Ethernet NICs	Up to eight 3.5" SAS or SATA drives Up to sixteen 2.5" SAS, SATA or SSD drive	DDR3, hot-plug hard drives; optional hot-plug redundant power supplies; 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
T620	The PowerEdge T620 is an enterprise-class, Intel processor-based 2-socket tower server that emphasizes high performance and high availability with built-in room for growth.	Tower or 5U rack	2-socket, up to 16 processor cores Up to 24 DIMM slots Up to 32 hard drives, Advanced systems management Redundancy options	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600MT/s	Up to 6 PCIe 3.0 + 1 PCIe 2.0	PERC S110 PERC H310 PERC H710 PERC H710P	Two Intel dual-port 1GbE LOM with TOE	Eight 3.5" SAS, SATA, or SSD + four PCIe SSD drives, or Twelve 3.5" SAS, SATA or SSD drives, or Sixteen 2.5" SAS, SATA, or SSD + four PCIe SSD drives, or Thirty-two 3.5" SAS, SATA, or SSD drives	High-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; hot-plug redundant fan; optional bezel; luggage-tag; ECC memory; interactive LCD screen; extended thermal support; ENERGY STAR compliant; switch independent partitioning
T610	The PowerEdge T610 is an Intel processor-based 2-socket tower server ideal for growing small and medium businesses, as well as remote sites that require high availability, exceptional virtualization capabilities, and advanced systems management.	Tower or 5U rack	2-socket, 4- or 6-core Intel processors Up to 8 hard drives 12 DDR3 DIMM slots Advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 192GB Up to 1333MT/s	5 PCIe 2.0 + 1 storage	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC S100 PERC S300	One embedded Broadcom 5709C Gigabit Ethernet NIC	Hot-plug: Up to eight 3.5" SAS or SATA drives or up to eight 2.5" SAS SSD, SATA SSD, or SAS drives	DDR3 memory; ECC; hot-plug hard drives; optional hot-plug redundant power supplies; 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
T420	The PowerEdge T420 is an Intel processor-based 2-socket tower server that delivers performance and non-disruptive growth for both office environments and data centers.	Tower or 5U rack	2-socket, 4-, 6-, or 8-core Intel processors Up to 16 hard drives 12 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon E5-2400 product family	Up to 192GB Up to 1600MT/s	4 PCIe 3.0 and 2 PCIe 2.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	One dual-port embedded Broadcom 5720 Gigabit Ethernet NIC	Cabled: Up to four 3.5" SAS or SATA drives Hot-plug: Up to eight 2.5"/3.5" drives or up to sixteen 2.5" SAS, SATA, or SSD drives	Optional high-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; redundant fans; optional bezel; luggage tag; ECC memory; optional interactive LCD screen; extended thermal support; ENERGY STAR® compliant; switch independent partitioning
T410	The PowerEdge T410 is an Intel processor-based 2-socket tower server well-suited for growing businesses and remote sites that require high performance, flexibility, advanced systems management and value.	Tower only (5U rack using third-party tray)	2-socket, 4- or 6-core Intel processors Up to 6 hard drives 8 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor 5500 or 5600 series	Up to 128GB Up to 1333MT/s	5 PCIe 2.0	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC S100 PERC S300	One dual-port embedded Broadcom NetXtreme II 5716 Gigabit Ethernet NIC	Cabled: Up to six 3.5" SAS or SATA drives Hot-plug: Up to six 3.5" SAS or SATA drives or up to six 2.5" SAS or SATA SSD drives	Quad-pack LED Diagnostic or LCD diagnostic with hot-plug HDD chassis; TPM; optional hot-plug hard drives; optional hot-plug redundant power supply; optional PERC 6/i RAID controller with battery-backed cache; toolless chassis
T320	The PowerEdge T320 is an Intel processor-based 1-socket tower designed for a broad range of workloads and applications that delivers performance, reliability and value in a robust design with simplified manageability.	Tower or 5U rack	1-socket, 2-, 4-, 6-, or 8-core Intel processors Up to 16 hard drives 6 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor E5-2400 product family Intel Xeon processor E5-1400 Intel Pentium processor 1400	Up to 96GB Up to 1600MT/s	3 PCIe 3.0 and 2 PCIe 2.0	PERC S110 PERC H310 PERC H710 PERC H710P PERC H810	One dual-port embedded Broadcom 5720 Gigabit Ethernet NIC	Cabled: Up to four 3.5" SAS or SATA drives Hot-plug: Up to eight 3.5"/2.5" or up to sixteen 2.5" SAS, SATA, or SSD drives	Optional high-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; redundant fans; optional bezel; luggage tag; ECC memory; optional interactive LCD screen; extended thermal support; ENERGY STAR® compliant

## Dell PowerEdge tower servers

### Towers

	Description	Form factor	Features	Processor(s)	Memory	PCI slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
T310	The PowerEdge T310 is an Intel processor-based 1-socket tower server that provides growing businesses and remote offices enterprise-class performance, advanced systems management options and redundancy.	Tower	1-socket, dual- or quad-core Intel processors Up to 4 hard drives 6 DDR3 DIMM slots Optional advanced systems management Redundancy options	Intel Xeon processor 3400 series Intel Celeron G1101 Intel Pentium G6950 Intel Core i3 processor 500 series	Up to 32GB Up to 1333MT/s	5 PCIe 2.0	PERC H200 PERC H700 SAS 6/iR PERC 6/i PERC S100 PERC S300	One dual-port embedded Broadcom 5716 Gigabit Ethernet NIC	Cabled: Up to four 3.5" SAS or SATA drives Hot-plug: Up to four 3.5" SAS or SATA drives or up to four hot-plug 2.5" SAS or SATA SSD drives	DDR3 ECC memory, TPM/TCM, redundant PSU, quad-pack LED diagnostic, hot-plug hard drives, toolless chassis
T110 II	The PowerEdge T110 II is an Intel processor-based 1-socket tower server that is an ideal first server for small business with the right combination of value, reliability, collaboration and data protection features to improve your business continuity and productivity.	Tower	1-socket, dual- or quad-core Intel processors Up to 4 hard drives 4 DDR3 DIMM slots Basic system management eSATA external storage connectivity option	Intel Xeon processor E3-1200 product family Intel Core processor i3-2100 product family	Up to 32GB Up to 1333MT/s	4 PCIe 2.0	PERC H200 PERC S100 PERC S300	One single-port Broadcom 5722 Gigabit Ethernet NIC	Cabled: Up to four 3.5" SAS or SATA or up to six 2.5" SAS or SATA SSD drives	DDR3 ECC memory, SW RAID, TPM/TCM, quad pack LED lights, toolless chassis

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# PowerEdge C servers

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## Problem-solving innovation for proven performance and hyper-efficiency at scale

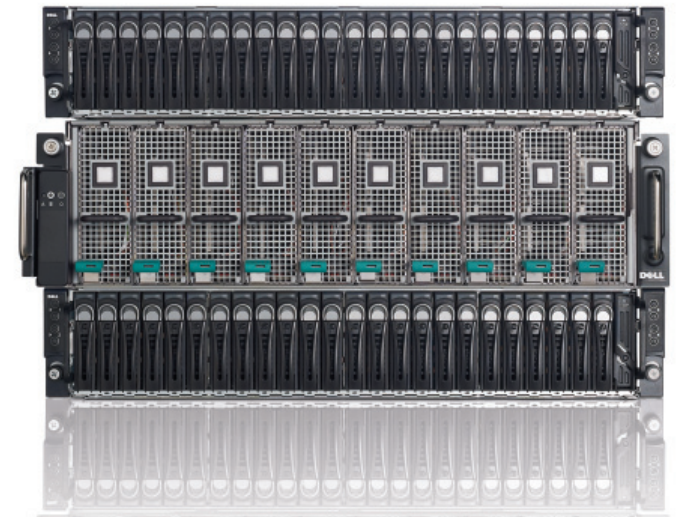
For cloud builders, high performance computing shops, telcos/hosters, Web 2.0 and big data applications, Dell PowerEdge C platforms focus on solving hyperscale data center challenges, with problem solving innovation, streamlined feature sets, and extensively proven performance and efficiency.

**Proven effectiveness:** PowerEdge C platforms are based on proven technologies the Dell Data Center Solutions (DCS) group has delivered to some of the world's largest hyperscale data centers looking for an IT competitive edge. Get that edge. Take advantage of that experience, and the investment those companies have made in collaborative custom-design for performance and efficiency at scale.

**Problem-solving innovation:** One size does not fit all. DCS starts by listening to customer challenges and needs and then custom-designs platforms to solve those challenges and meet those needs. The result: entirely new categories of servers such as microservers and hyperscale servers, right-sized for your workloads and your environment.

**Efficiency:** PowerEdge C servers have high performance per watt, performance per U and performance per dollar. Designed for performance and efficiency, PowerEdge C servers have a shared infrastructure: sharing chassis, fans and power supplies across up to four server nodes in a 2U that can lower TCO considerably.

**Data Center Solutions:** DCS builds custom designs and delivers IT for some the world's largest search engine and cloud computing providers. For DCS, it all starts with you. Your unique challenges. Your unique environment. It's collaborative problem solving innovation, with designs proven at hyperscale. Get a competitive edge with some of those custom designs more widely available in the PowerEdge C line, right-sized for scale-out performance and efficiency.



## Dell PowerEdge cloud servers

	Description	Form factor	Features	Processor(s)	RAM per node (min/max)	PCI slots	Controllers	Integrated NIC	Internal storage (max)	Availability features	
PowerEdge C 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 rack-mount	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	4- or 6-core Intel Xeon Processor 5600 Series Quad-core Intel Xeon Processor 5500 and 5600 Series	Up to 192GB (18 DIMM slots): 2GB/4GB/8GB 16GB DDR3, 1066MT/s or 1333MT/s	3 PCIe G2 slots: 1 x 16 PCI Express 2.0 slot, 1 proprietary mezzanine for dual port 10GbE daughtercard, 1 proprietary mezzanine for LSI 2008 SAS daughtercard	LSI® 2008 SAS daughtercard PERC H800  LSI MegaRAID® 9260-8i, PERC H700	Intel 82576—2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port  Add-in: 1Gb Ethernet and 10Gb Ethernet card and QDR InfiniBand card options	12TB SATA, 12TB NL or 6Gb SAS	10 x 2.5" or 4 x 3.5" hot-plug hard drive options; high-efficiency single or redundant power supplies; Linux® and Microsoft® Windows® OS; Citrix®, VMware® and Microsoft Hyper-V™
		C2100	A data monster with more memory and disk capacity to get results faster. Up to 24 drives with up to 192GB memory in the most popular 2U form factor.	2-socket, 2U rack-mount	The right mix: The mix of disk configurations and backplane options allows you to select the combination of components that best matches your needs	4- or 6-core Intel Xeon Processor 5600 Series Quad-core Intel Xeon Processor 5500/5600 Series	Up to 192GB (18 DIMM slots): 2GB/4GB/8GB 16GB DDR3, 1066MT/s or 1333MT/s	4 PCIe G2 slots: 2 x 8 PCI Express 2.0 slots, 1 proprietary mezzanine for dual port 10Gb Ethernet daughtercard, 1 proprietary mezzanine for LSI 2008 SAS daughtercard	LSI 2008 SAS daughtercard PERC H800  LSI MegaRAID 9260-8i, PERC H200, PERC H700, PERC H800	Intel 82576—2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port 1Gb and 10Gb  Add-in: Ethernet card options QDR InfiniBand card options	26TB SATA or 38TB NL SAS
	C6100		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 (Intel) in a 2U rack-mount	High storage density  Shared infrastructure uses less floor space, power and cooling  Ability to service individual nodes increases uptime	4- or 6-core Intel Xeon Processor 5600 Series Quad-core Intel Xeon Processor 5500/5600 Series	Up to 192GB (12 DIMM slots): 4GB/8GB/16GB DDR3, 1066MT/s or 1333MT/s	1 PCIe x 8 mezzanine daughtercard slot and x16 riser slot  Optional: Mellanox® ConnectX-2 40Gb/s dual-port QDR IB adapter  Intel 82599 dual-port 10GbE adapter	LSI 2008 6GB SAS mezzanine  In PCIe slot: LSI 9265-8i add-in RAID controller	Intel 82576—2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port  Add-in: 1Gb and 10Gb Ethernet card options QDR InfiniBand card options	24TB SATA or 36TB NL SAS
		C6220	The next generation of the PowerEdge C6100, this compact 2U shared infrastructure designed for performance, density and flexibility, supporting 1 to 4 independent server nodes.	4 x 2-sockets (Intel) in a 2U rack-mount	Intel's latest 2S performance processors.  Component and power efficiency improvements save power while boosting performance	2, 4, 6 or 8-core Intel Xeon E5-2600 Processor Series	Up to 512GB (16 DIMM slots): 4GB/8GB/16GB DDR3 RDDR3, LV RDDR3, LR RDDR3, 1600MT/s	1 PCIe x 8 mezzanine daughtercard slot and  1 x16 PCI Express 3.0 (4-node configs) or  2 x16 PCI Express 3.0 (2-node configs)	Intel C600 integrated controller  (optional) LSI 2008 6GB SAS mezzanine  In PCIe slot: LSI 9265-8i add-in RAID controller	Intel 1350- 2 x Gb Ethernet  Add-in: 1Gb and 10Gb Ethernet card options QDR InfiniBand card options	24TB SATA or 36TB NL SAS

## Dell PowerEdge cloud servers

### PowerEdge C servers

	Description	Form factor	Features	Processor(s)	RAM per node (min/max)	PCI slots	Controllers	Integrated NIC	Internal storage (max)	Availability features
C6105	4 two-socket server nodes, for up to 48 cores with an ideal mix of power, price and performance in a cost- and power-efficient shared infrastructure.	4 x 2-sockets (AMD) in a 2U rack-mount	<p>Maximize performance/watt/dollar</p> <p>Shared infrastructure uses less space, power and cooling</p> <p>Service individual nodes to increase uptime</p>	4- or 6-core AMD Opteron 4100 Processor Series	Up to 192GB (12 DIMM slots): 2GB/4GB/8GB/16GB DDR3, 1333MT/s	<p>1 PCIe x 8 mezzanine daughtercard slot and x 16 riser slot</p> <p>Optional: Mellanox ConnectX-2 40Gb/s dual-port QDR IB adapter</p> <p>Intel 82559 dual-port 10GbE adapter</p>	LSI 2008 6GbE SAS mezzanine	2 embedded Intel Kawela 82576 1 Gb Ethernet card	24TB SATA or NL 24TB SAS	24 x 2.5" or 12 x 3.5" hot-plug hard drive options; redundant high-efficiency 1100W gold-rated 90% efficiency and 1400W platinum-rated power supplies; Linux and Windows OS; Citrix, VMware and Microsoft Hyper-V
C6145	One of the highest performing servers ever, with two 4-socket AMD Opteron 6200 series processor-based servers in a hyper-efficient 2U; with 10 PCIe slots to ramp up expansion possibilities.	2 x 4-socket (AMD) in 2U rack-mount	<p>High performance and density</p> <p>Shared infrastructure uses less floor space, power and cooling</p> <p>5 PCIe slots/server node, 10 total</p>	8, 12 or 16 cores per processor AMD Opteron 6200 processor series, 128 cores	Up to 512GB (32 DIMM slots): 4GB/8GB/16GB DDR3, 1333MT/s	<p>1 PCIe x8 mezzanine daughtercard slot, 3 x PCIe x16 riser slot</p> <p>1 dedicated x16 host interface card (HIC) card per server node</p> <p>Optional: Mellanox ConnectX-2 40Gb/s dual-port QDR IB adapter Intel 82559 dual-port 10GbE adapter</p>	<p>LSI 2008 6GbE SAS mezzanine (optional)</p> <p>LSI 9265-8i add-in RAID controller</p>	Embedded dual port Intel Kawela 82576  1 Gb Ethernet network interface card	48TB SATA or NL 48TB SAS	24 x 2.5" or 12 x 3.5" hot-plug hard drive options; Dual hot-plug redundant high-efficiency 1100W gold-rated 90% efficiency and 1400W platinum rating 94% efficiency power supplies; Linux and Windows OS; Citrix, VMware and Microsoft Hyper-V
C5000 Chassis	The 3U PowerEdge C5000 chassis leverages fans, power supplies and other components across up to 12 single socket server nodes to offer more density with less to cool.	3U rack-mount	<p>More density with less to cool, cold-aisle accessible, hot-swap high-efficiency 1400W power supplies and server nodes simplify serviceability and lower total cost of ownership</p>	N/A	N/A	N/A	N/A	N/A	N/A	Up to 12 single-socket AMD or Intel processor-based server nodes (sleds) with 4 x 2.5" or 2 x 3.5" hard drive options; BMC with IPMI 2.0 support with 1 x 10/100 Mbps RJ45 connector for dedicated management, or 1 x NIC port shared
C5125 Microserver	Designed to increase revenue per square foot in your data center, the PowerEdge C5125 Microserver has up to 12 single-socket servers for more density with less to cool in a hyper-efficient, shared-infrastructure, 3U chassis.	Up to 12 x 1-socket (AMD) in 3U rack-mount	<p>More density with less to cool, less floor space, cabling, racks compared to traditional 1U servers</p> <p>This microserver is right-sized for your workload and your wallet with value-priced AMD processors and shared infrastructure to maximize efficiency</p>	2- or 4-core AMD Phenom™ II X4, Athlon™ II X4/X2	Up to 16GB (4 DIMM slots): 2GB/4GB DDR3, 1333MT/s	N/A	AMD SP5100	Intel 82576EB	4TB SATA	4-12 single-socket server node sleds; 4 x 2.5" or 2 x 3.5" hard drive options; Linux and Windows OS; Citrix, and Microsoft Hyper-V
C5220 Microserver	3U shared infrastructure microserver supporting up to 12 independent server nodes for virtualized hosting, content delivery networks and Web 2.0 applications.	Up to 8 or 12 x 1-socket (Intel), 3U rack-mount	<p>Micro in size, without compromise, the PowerEdge C5220 Microserver has Intel E3-1200 processors. Its shared infrastructure results in more density with less to cool, less floor space, cabling, or racks</p>	2- or 4-core Intel Xeon processor E3-1200 Series or Intel Core i3-2120	Up to 32GB (4 DIMM slots): 2GB/4GB/8GB DDR3, 1333MT/s	<p>1 x8 PCIe mezz card slot available on the 8-sled version</p> <p>LSI 2008 or Intel 82580DB dual-port 1GbE adapter (optional)</p>	Intel C204	Intel 82580DB	4TB SATA or 6TB NL SAS	4-12 single-socket server node sleds; 4 x 2.5" or 2 x 3.5" hard drive options; Linux and Windows OS; Citrix, VMware and Microsoft Hyper-V

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# PowerEdge blade servers

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## 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 up to 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 and Cisco® 1Gb/10Gb Ethernet with modular bays, Dell 10Gb Ethernet with modular bays, Dell Ethernet pass-through, Brocade® 8GbE Fibre Channel, Fibre Channel pass-through, Mellanox® DDR QDR and FDR 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 blade servers

	Description	Form factor	Features	Processor(s)	Memory	Mezzanine slots	RAID controllers	Integrated NIC	Hard drives	Availability features	
Blades	M915	The PowerEdge M915 is a full-height, 4-socket AMD processor-based blade server with robust performance, flexibility and throughput for maximized performance per watt and cost.	Full-height blade; Up to 8 fit into an M1000e enclosure	2- or 4-socket, 8- or 12-core AMD processors 32 DDR3 DIMM slots Two Flexible LOM Internal dual SD module for hypervisor redundancy Advanced embedded systems management	Up to four AMD Opteron 6100 and 6200 series processors	Up to 512GB Up to 1333MT/s	4 mezzanine card slots for up to 3 fully redundant, highly available I/O fabrics	PERC H200 (6Gb/s) PERC H700 (6Gb/s)	Four modular Broadcom BCM5709S Gigabit Ethernet NICs	Up to two 2.5" SAS or SSD hot-plug drives	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
	M910	The PowerEdge M910 is an Intel processor-based high-performance 4-socket full-height blade server ideal for organizations that require maximum performance and scalability for core applications while minimizing their power and physical space requirements.	Full-height blade; Up to 8 fit into an M1000e enclosure	2- or 4-socket, 8- or 10-core Intel processors 32 DDR3 DIMM slots Unique Dell FlexMem Bridge memory expansion technology Internal dual SD module for hypervisor redundancy Advanced embedded systems management	Up to four 4-, 6-, or 8-core Intel Xeon processor 7500 series or up to two 4-, 6-, or 8-core Intel Xeon processor 6500 series	Up to 1TB Up to 1333MT/s	4 mezzanine card slots for up to 3 fully redundant, highly available I/O fabrics	PERC H200 (6 GB/s) PERC H700 (6GB/s)	Four embedded Broadcom Gigabit NICs	Up to two 2.5" SAS or SSD hot-plug drives	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
	M820	The PowerEdge M820 is an Intel processor-based 4-socket, full-height blade server that delivers exceptional performance and scalability for core business applications or consolidated workloads.	Full-height blade; Up to 8 fit into an M1000e enclosure	4-socket, 4, 6, or 8-core Intel processors 48 DDR3 DIMM slots Up to 1.5TB of RAM per blade or 12TB per M1000e chassis Advanced embedded systems management and Internal dual SD module for hypervisor redundancy	Up to four 4-, 6-, or 8-core Intel Xeon processor E5-4600 product family	Up to 1.5TB Up to 1600MT/s	4 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC H310 PERC H710 PERC H710P	Dual Select Network Adapter Broadcom, Brocade, QLogic Dual Port, 10GbE NICs	Up to four 2.5" SAS, SSD or PCIe Express Flash SSD hot-plug drives	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support iDRAC7 with Lifecycle Controller for Blades (default), iDRAC7 Enterprise with Lifecycle Controller (upgrade option)

## Dell PowerEdge blade servers

	Description	Form factor	Features	Processor(s)	Memory	Mezzanine slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features
M710	The PowerEdge M710 is an Intel processor-based 2-socket, full-height blade server providing the bandwidth necessary for virtualization and performance-intensive business-critical applications.	Full-height blade; Up to 8 fit into an M1000e enclosure	2-socket, 4- or 6-core Intel processors 18 DDR3 DIMM slots Excellent memory scalability Advanced embedded systems management	Up to two 4- or 6-core Intel Xeon processor 5500 or 5600 series	Up to 288GB Up to 1333MT/s	4 mezzanine card slots for up to 2 fully redundant, highly available, high-speed mezzanine card I/O options	PERC H200 PERC H700 SAS 6/iR CERC 6/i PERC 6/i	Four embedded Broadcom Gigabit NICs	Up to four 2.5" SAS or SSD hot-plug drives	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, 4/8GbE Fibre Channel, and DDR or QDR InfiniBand; Integrated Persistent Storage for Virtualization
M710HD	The PowerEdge M710HD is an Intel processor-based 2-socket, half-height blade server with extensive I/O flexibility and robust memory scalability for virtualization and workload consolidation.	Half-height blade; Up to 16 fit into an M1000e enclosure	2-socket, 4- or 6-core Intel processors 18 DDR3 DIMM slots Excellent memory scalability Advanced embedded systems management	Up to two quad-core or six-core Intel Xeon Processor 5500 and 5600 Series	Up to 288GB Up to 1333MT/s	2 mezzanine card slots for flexible I/O options	PERC H200	Two embedded Broadcom 5709 Gigabit Ethernet NICs	Up to two 2.5" SAS or SSD hot-plug drives	Two 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
M620	The PowerEdge M620 is an exceptionally feature-rich 2-socket blade server, and is designed for maximum performance combined with extreme density and power efficiency.	Half-height blade; Up to 16 fit into an M1000e enclosure	2-socket, 2-, 4-, 6-, or 8-core Intel processors Up to 24 DIMM slots Advanced embedded systems management	Intel Xeon processor E5-2600 product family	Up to 768GB Up to 1600 MT/s	2 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC S110 PERC H310 PERC H710 PERC H710P	Select Network Adapter—minimum configuration: 2 x 10GbE	Up to two 2.5" SAS, SATA, SSD hot-plug drives or Up to two 2.5" Express Flash PCIe SSDs	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support
M610	The PowerEdge M610 is an Intel processor-based 2-socket, half-height blade server built for virtualization, mainstream business applications and front-end database workloads.	Half-height blade; Up to 16 fit into an M1000e enclosure	2-socket, 4- or 6-core Intel processors 12 DDR3 DIMM slots Advanced embedded systems management	Up to two quad-core or six-core Intel Xeon Processor 5500 or 5600 Series	Up to 192GB Up to 1333 MT/s	2 mezzanine card slots for flexible I/O options	PERC H200 PERC H700 SAS 6/iR CERC 6/i PERC 6/i	Two embedded Broadcom 5709 Gigabit NIC	Up to two 2.5" SAS or SSD hot-plug drives	Two full-height, full-length 2nd Generation x16 PCIe expansion slots; Two 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 embedded persistent storage for virtualization hypervisor



## Dell PowerEdge blade servers

	Description	Form factor	Features	Processor(s)	Memory	Mezzanine slots	Embedded RAID controllers	Integrated NIC	Hard drives	Availability features	
Blades	M610x	The PowerEdge M610x is an Intel processor-based 2-socket, full-height blade server ideal for organizations with unique I/O or computational needs requiring industry-standard PCIe slots.	Full-height blade; Up to 8 fit into an M1000e enclosure	2-socket, 2-, 4-, 6-, or 8-core Intel processors 12 DDR3 DIMM slots PCIe expansion module for added flexibility Advanced embedded systems management	Up to two quad-core or six-core Intel Xeon Processor 5500 and 5600 Series	Up to 192GB Up to 1333 MT/s	2 mezzanine card slots for flexible I/O options	PERC H200 PERC H700	Two embedded Broadcom 5709 Gigabit Ethernet NICs	Up to two 2.5" SAS or SSD hot-plug drives	Two full-height, full-length 2nd Generation x16 PCIe expansion slots; Two 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 embedded persistent storage for virtualization hypervisor
	M520	The PowerEdge M520 is an Intel processor-based 2-socket, half-height blade server built for virtualization, mainstream business applications and front-end database workloads.	Half-height blade; Up to 16 fit into an M1000e enclosure	2-socket, 2-, 4-, 6-, or 8-core Intel processors 12 DDR3 DIMM slots Advanced embedded systems management	Up to two 2-, 4-, 6-, 8-core Intel Xeon Processor E5-2400 product family	Up to 192GB Up to 1600 MT/s	2 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC S110 PERC H310 PERC H710 PERC H710P	Two embedded Broadcom 5720 Ethernet Gigabit NICs	Up to two 2.5" SAS or SATA SSD hot-plug drives	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support iDRAC7 with Lifecycle Controller for Blades (default), iDRAC7 Enterprise with Lifecycle Controller (upgrade option)
	M420	The PowerEdge M420 is an Intel processor-based ultra-dense 2-socket, quarter-height blade server that allows up to 32 serviceable blade servers per chassis, offering an unprecedented high-performance computing environment.	Quarter-height blade; Up to 32 fit into an M1000e enclosure	Scaling up to 16-core processors 6 DDR3 DIMM slots Advanced embedded systems management	Up to 16-core Intel Xeon Processor E5-2400 product family	Up to 192GB Up to 1600 MT/s	1 PCIe 3.0 mezzanine card slots for flexible I/O options	PERC H310	Two embedded Broadcom 57810S Gigabit Ethernet NICs	Up to two 1.8" SSD hot-plug drives	Hot-plug hard drives ECC memory Single Device Data Correction (SDDC) supports memory demand and patrol scrubbing High availability failover cluster support iDRAC7 with Lifecycle Controller for Blades (default), iDRAC7 Enterprise with Lifecycle Controller (upgrade option)

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