HYPERSCALE-INSPIRED DESIGN

PowerEdge C8000 Chassis

4U shared infrastructure chassis holds up to eight single-wide compute sleds, up to four double-wide compute/GPU storage sleds or a combination of sleds to create the ideal mix for your workloads.

More than 1,000 ways to get results fast

Microbes, earthquakes, and customers don't wait. Neither should you. Speed up your most resource-intensive workloads by mixing and matching compute, storage and graphics processing unit (GPU) sleds in the same 4U rack chassis.

Do more in the same footprint without compromising performance or capacity. Mixing and matching sleds also allows you to standardize on infrastructure architecture, which can help drive down the total cost of ownership.

Mix workloads in the same chassis

The Dell™ PowerEdge™ C8000 chassis can easily handle multiple workloads in the same chassis, or scaled across racks to help reduce response times while easing serviceability.

The PowerEdge C8000 series packs up to eight single-wide sleds, four double-wide sleds, or a variety of combinations to create the ideal mix to meet your needs.

Load the chassis with three types of interchangeable, hot-pluggable sleds:

- C8220 — Single-wide compute sled
- C8220X — Double-wide compute/GPU sled
- C8000XD — Double-wide storage sled

Pack more compute power in less space while saving energy

Get the cores, memory and I/O expansion you need for peak workload performance, while keeping a dense footprint. The Intel® Xeon® processor E5 product family can boost server performance by up to 80% over previous-generation processors, accelerate data availability to the processing cores and reduce latency by up to 30%, while delivering up to 70% more performance per watt.[1]

NVIDIA® Tesla™ GPUs can speed high-performance computing (HPC) applications by up to 10x, with up to 665 GFLOPS of double-precision performance and 1.33 TFLOPS of single-precision performance.[2]

Storage options, such as 2.5" or 3.5" SAS/SATA or 2.5" SSDs can boost storage density up to 192TB per chassis.

The PowerEdge C8000 4U shared infrastructure chassis is designed for efficiency, with 94% Platinum-certified power supplies.

Compute, compute/GPU, and storage sleds all share chassis, power and cooling, helping save on the total cost of ownership.[3] Help save even more by refreshing components, without having to replace the entire chassis.

The PowerEdge C8000 series is part of Dell's hyperscale-inspired PowerEdge C server line designed to bring the most compute power in the least amount of space with the least energy draw to help lower operational costs. These servers offer the right combination of what you need and nothing more. They are purpose-built servers designed for high performance computing, Web 2.0, hosting, data analytics, and cloud building. They are best for rack deployments, large homogenous cluster/cloud application environments where the software stack provides primary platform availability and resiliency. The PowerEdge C server line does not come with features you don't need in a scale-out environment like comprehensive systems management, or broad enterprise storage.

- Mix compute, storage and GPU sleds in the same 4U rack chassis
- Save on TCO with shared infrastructure[3]
- Refresh sleds instead of replacing the whole chassis and add up the savings
- More hard drive, I/O and other options available than competitors

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Feature	PowerEdge C8000 Chassis technical specifications	
Chassis	4U rack mount that holds: Up to 8 single-wide sleds or Up to 4 double-wide sleds with up to 2 power sleds	
Sled types	C8220 single-wide compute sled C8220X double-wide compute/GPU sled C8000XD double-wide storage sled	
Power supply (internal options)	C8000: Up to 4 x 1400W power supplies (94+% platinum-rated) through 2 single-wide sleds Configurations include: • 4 + 0 maximum power 5600W non-redundant • 3 + 1 maximum power 4200W redundant • 2 + 2 maximum power 2800W redundant • 2 + 1 maximum power 2800W redundant • 2 + 0 maximum power 2600W non-redundant • 1 + 1 maximum power 1400W redundant	
Fans	6 x 120 mm non-redundant, hot-pluggable, high-efficiency fans with PWM control	
Services (Availability varies by region. Please contact your sales representative for details.)	Data Center Consulting Services Rack Integration Rack Design Verification Configuration Services Onsite Deployment Basic Next Business Day Service ProSupport Next Business Day or 4-Hour Service	IT Advisory Service ProSupport for Data Center Dell Online Self Dispatch Remote Advisory Service Keep Your Hard Drive Certified Data Destruction Onsite Parts Solution Specialized Onsite Services
Dimensions and weight	Height: 175 mm (6.9 in) Wide: 446.8 mm (17.6 in) Depth: 813 mm (31.9 in) Weight maximum configuration: 102 kg (225 lb) Weight (empty): 45 kg (100 lb)	

1. http://www.intel.com/content/www/us/en/processors/xeon/xeon-processor-5000-sequence.html?cid=sem116p12533
2. http://www.nvidia.com/docs/IO/105880/DS-Tesla-M-Class-Aug11.pdf
3. http://www.dell.com/downloads/global/products/pedge/en/Shared_Infrastructure_Scale_Out_Advantages_and_Effects_on_TCO.pdf

Global services and support

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

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