



HYPERSCALE-INSPIRED DESIGN

# PowerEdge C8000 Chassis

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

## >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/or 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 total cost of ownership.

## Mix workloads in the same chassis

The PowerEdge™ C8000 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 with three types of interchangeable, hot-swappable 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 family can boost server performance by up to 80% over previous-generation processors, accelerate data availability to the processing cores, reducing latency by up to 30%, while delivering up to 70% more performance per watt.<sup>1</sup>

NVIDIA® Tesla™ GPUs can speed HPC applications by up to 10x, with up to 665 gigaflops of double precision performance and one teraflop of single

precision performance.<sup>3</sup>

2.5", 3.5" SAS/SATA or 2.5" SSD drives can boost storage density up to 144TB 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.<sup>3</sup> Help save even more by refreshing components, without having to replace the entire chassis.

## Get the services and support you want

Dell is dedicated to simplifying IT, and Dell Services can help you manage the complexities of growing and maintaining your scale-out environments. Dell's broad portfolio of planning, implementation and maintenance services can help accelerate your IT initiatives and grow your business. Dell services can be tailored to complement how you manage your

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

environment. Options include, but are not limited to, consulting services to help you optimize your data center, custom rack integration, and expert-level solution support with Dell Online Self Dispatch.

Feature	PowerEdge C8000 Chassis Technical Specifications	
Chassis	4U rack mount, holds up to 8 single-wide sleds, or 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 or external options)	Up to 4 x 1400W PSU (94+% platinum-rated) via 2 single-wide sleds Configurations include: 4 + 0 Max power 5600W non-redundant 3 + 1 Max power 4200W redundant 2 + 2 Max power 2800W redundant 2 + 1 Max power 2800W redundant 2 + 0 Max power 2600W non-redundant 1 + 1 Max power 1400W redundant	
Fans	6 x 120mm non-redundant, non-hot-swappable, high-efficiency fans with PWM control Dimensions : L-249 mm x W-65.5 mm x H-38.2 mm	
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.)	

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.

- [1. http://www.intel.com/content/www/us/en/processors/xeon/xeon-processor-5000-sequence.html?cid=sem116p12533](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](http://www.nvidia.com/docs/IO/105880/DS-Tesla-M-Class-Aug11.pdf)
- [3. http://www.dell.com/downloads/global/products/pe/edge/en/Shared\\_Infrastructure\\_Scale\\_Out\\_Advantages\\_and\\_Effects\\_on\\_TCO.pdf](http://www.dell.com/downloads/global/products/pe/edge/en/Shared_Infrastructure_Scale_Out_Advantages_and_Effects_on_TCO.pdf)

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