

PowerEdge C-Series

Data centers are undergoing a transformation to meet the demands of the digital economy. Built for scale-out workloads like high performance computing, deep learning and data analytics, Dell EMC PowerEdge C series platforms deliver the latest high speed memory, fast NVMe storage and workload-based BIOS tuning. Scale efficiently and predictably with flexible configurations and advanced connectivity options. Take advantage of new factory integrated Direct Contact Liquid Cooling for improved power efficiency.* And with intelligent automation, you can empower your team, freeing them from routine maintenance. Future-proof your data center with the worry-free and flexible PowerEdge C Series portfolio.

Specifications	C6520	C6525	C6420	C4140
				
	Dense compute server designed to boost data center performance and address extreme compute at scale	High Performance Dense-computing	Dense, performance-optimized compute node for scale-out workloads.	Faster time to insights with ultra-dense accelerator optimized server platform.
Ideal workloads	High Performance Computing (CAE, Research, Geophysics and massive parallel computing), Web Tech, Financial Modeling, Service providers	High performance computing, Digital Manufacturing, Research, Web Tech/Hosting, hyper-converged infrastructure	High performance computing, Web scale applications and SaaS, high performance big data analytics, financial modeling and high frequency trading, hyper-converged infrastructure	Cognitive workloads such as artificial intelligence, machine learning, deep learning and for technical computing in for financial services, life sciences, HPC, etc.
Form factor	Up to 4 independent hot-swappable 2-socket C6520 sleds in a 2U C6400 chassis	Up to 4 independent hot-swappable 2-socket C6525 server nodes in a 2U C6400 chassis	Up to 4 independent hot-swappable 2-socket C6420 server nodes in a 2U C6400 chassis	Ultra-dense 1U, 2-socket platform
Processor	Two 3rd Generation Intel Xeon Scalable processors, with up to 40 cores per processor	One or Two AMD 2nd Gen EPYCTM Processors; up to 64 cores per processor	Up to two 2nd Generation Intel® Xeon® Scalable processors per server node	Two 2nd generation Intel® Xeon® Scalable processors, up to 24 cores per processor
Memory	16 DDR4 DIMM slots, RDIMM 1 TB max or LRDIMM 2 TB max, speeds up to 3200 MT/s	16 DDR4 RDIMMs and LRDIMMs slots, 2TB per server node, speeds up to 3200MT/s	16 DDR4 DIMM slots, 3TB max per server node, speeds up to 2933MT/s	24 DDR4 DIMM slots, 1.5 TB max per server node, speeds up to 2933MT/s
Disk	Up to 24 x 2.5-inch drives per node or 12 x 3.5-inch drives per node Internal: (BOSS-S1); HWRAID 2 x M.2 SSDs, uSD card	Up to 24 x 2.5" drives per node or 12 x 3.5" drives per node Internal: uSD card; M.2 SATA BOSS 1.0	Up to 6 x 2.5" drives per node or 3 x 3.5" drives per node, Supports BOSS	Not available
NVMe	Up to 2 NVMe drives per C6520 sled	Up to 2 NVMe drives per C6525 server	Up to 2 NVMe drives per C6420 server	Not available
PCIe slots	2 x PCIe x16 Gen4 Low-profile with support for SNAP I/O modules, 1 x OCP 3.0 x16 Gen4, 1 x PCIe x8 Gen4 M.2 Riser	1 x 16 PCIe Gen4 OCP (3) slots, 2 x 16 PCIe Gen4 half-height/half-length slots	1 x 16 OCP mezzanine, 1 x 16 low profile PCIe slot, 1 x 8 mezz for storage controller	2 x 16 slots, 1 from each CPU
GPU support	1 x Low-profile (Half-height) 70 W GPU	Supports 2 Single-Wide GPU	Not available	Supports 4 GPUs
Rack height	1U	2U	2U	1U
Security	TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ , Digitally Signed Firmware, Chassis Intrusion Alert, Secure Boot, Secure Erase, Silicon Root of Trust, System Lockdown (requires iDRAC Enterprise or Datacenter)	TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot System Lockdown Secure Erase Silicon Root of Trust	TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot System Lockdown Secure Erase Silicon Root of Trust	TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot System Lockdown Secure Erase Silicon Root of Trust

Dell EMC Solutions

When you buy a Dell EMC server, you get more than just hardware. You get access to IT solutions end-to-end. Dell and EMC bring together industry-leading expertise into a common platform to help you transform your data center. Dell EMC can deliver PowerEdge technology at any level of integration – from a best-in-breed platform, to a pre-integrated fully turnkey hybrid cloud implementation or any step in-between. Combining the PowerEdge server infrastructure with Dell Services and Financial Solutions allows you to modernize your data center faster, more affordably and with less risk.

Dell EMC Services



To fully implement a modern infrastructure, organizations require reliable, comprehensive IT services to drive IT transformations, accelerate adoption of new technologies and maximize productivity.

Architect: Get started with our IT Transformation Workshop to accelerate your transformation to becoming an agile business partner and broker of services to the business.

Implement: The ProDeploy Enterprise Suite helps you get more out of your new technology

starting day one. Trust Dell EMC experts to lead deployments from basic hardware installations through planning, configuration and complex integrations.

Manage: The ProSupport Enterprise Suite ensures 24x7 access to elite ProSupport engineers along with automated, proactive and predictive tools enabled by SupportAssist. Our personalized service and preventative measures help you get ahead of problems before they happen.

Dell EMC Data Center Infrastructure

Dell EMC Data Center Infrastructure (DCI) simplifies and manages critical infrastructure in and around the data center serving the needs of your business. A complete portfolio of racks, power and cooling solutions lets you scale as your data center needs grow.

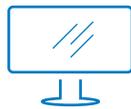
Systems Management

Spend less time on routine maintenance and stay focused on your business-critical priorities, thanks to the intelligent automation capabilities of PowerEdge servers. OpenManage™ System Management means your servers can take care of themselves, with zero touch configuration, proactive support notification and easy system erase when it is time for systems to be retired or redeployed. With iDRAC's agent-free server management, you can utilize consistent methods to manage servers regardless of the installed OS and workloads. You can remotely manage PowerEdge servers via scripts with the new, Redfish-compliant iDRAC Restful API, Dell and third-party consoles, or legacy APIs.



"Comet can run a wide variety of applications and hundreds, if not thousands, of researchers' jobs at a time, thanks to Dell PowerEdge servers with Intel processors."

- Rick Wagner, HPC Systems Manager, San Diego Supercomputer Center



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*Not all features are available on all platforms. For a comprehensive list, visit dell.com/servers

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