PowerEdge C-Series

Data centers are undergoing a transformation to meet the demands of the digital economy. Scale-out workloads like high performance computing, deep learning and data analytics, Dell 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 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	C6615	C6620	C6525
	Scale-Out computing	High Performance, Scale-Out Computing	High Performance Dense-computing
Ideal workloads	Highly dense and scalable, Simplified Management, Flexible offerings to suite workloads, Robust platform security, Improved Power	High compute performace, higher core/note density per rack eables HPC, Research, Rendering, Vectorized and Advanced Vector Extensions (AVX)	High performance computing, Digital Manufacturing, Research, Web Tech/Hosting, hyper-converged infrastructure
Form factor	Up to 4 hot-swappable single-socket compute nodes in a 2U C6600 chassis	Up to 4 hot-swappable dual-socket compute nodes in a 2U C6600 chassis	Up to 4 hot-swappable 2-socket C6525 server nodes in a 2U C6400 chassis
Processor	One AMD EPYC processor, with up to 64 cores	Up to two 4th Generation Intel Xeon Scalable processors with up to 56 cores per processor	Up to two 2nd or 3rd Generation AMD EPYC processors per node configurations with up to 64 cores per processor
Memory	6 DDR5 DIMM slots, supports RDIMM of 576 GB max, speeds up to 4800 MT/s	16 DDR5 DIMM slot, supports RDIMM 4 TB max, speeds up to 4800 MT/s	16 DDR4 RDIMMs and LRDIMMs slots, 2TB per server node, speeds up to 3200MT/s
Disk	Up to 16 x 2.5-inch SAS/SATA (HDD/SSD) drives max 61 TB, Up to 16 x 2.5-inch SATA/NVMe drives max 15.36 TB on Universal Backplane configuration, Up to 16 x 2.5-inch NVMe backplane, Up to 8 x E3.s on NVMe SSDs hard drive backplane	Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) drives, max 61 TB or up to 8 x E3.s NVMe SSDs, max 288 TB, Internal: (BOSS-N1): HWRAID 1, 2 x M.2 SSDs 480 GB or 960 GB	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
NVMe	Up to 16 x 2.5-inch NVMe drives on Universal Backplane	Up to 4 NVMe drives per C6620 sled	Up to 2 NVMe drives per C6525 server
PCIe slots	2 x PCIe x16 Gen5 Low-Profile, 1 x OCP 3.0 x16 Gen5	2 x PCIe x16 Gen5 Low-Profile with support for SNAP I/O modules, 1 x OCP 3.0 x16 Gen4, 1 x PCIe x16 Gen4 M.2 Riser	1 x 16 PCIe Gen4 OCP (3) slots, 2 x 16 PCIe Gen4 half-height/half-length slots
GPU support	N/A	Up to two 75W (low-profile) GPUs	Supports 2 Single-Wide GPU
Rack height	2U	2U	2U
Security	Cryptographically signed firmware, Data at Rest Encryption (SEDs with local or external key mgmt), Secure Boot, Secured Component Verification (Hardware integrity check), Secure Erase, Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Datacenter), TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	Cryptographically signed firmware, Data at Rest Encryption (SEDs with local or external key mgmt), Secure Boot, Secured Component Verification (Hardware integrity check), Secure Erase, Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Datacenter), TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	TPM 1.2/2.0 optional, Cryptographically signed firmware, Secure Boot, System Lockdown (requires iDRAC Enterprise or Datacenter), Secure Erase, Silicon Root of Trust

Specifications	C6520	C6420
	Dense compute server designed to boost data center performance and address extreme compute at scale	Dense, performance-optimized compute node for scale-out workloads.
Ideal workloads	High Performance Computing (CAE, Research, Geophysics and massive parallel computing), Web Tech, Financial Modeling, Service providers	High performance computing, Web scale applications and SaaS, high performance big data analytics, financial modeling and high frequency trading, hyper-converged infrastructure
Form factor	Up to 4 hot-swappable 2-socket C6520 sleds in a 2U C6400 chassis	Up to 4 hot-swappable 2-socket C6420 server nodes in a 2U C6400 chassis
Processor	Up to two 3rd Generation Intel Xeon Scalable processors, with up to 40 cores per processor	Up to two 2nd Generation Intel® Xeon® Scalable processors per server node
Memory	16 DDR4 DIMM slots, RDIMM 1 TB max or LRDIMM 2 TB max, speeds up to 3200 MT/s	16 DDR4 DIMM slots, 3TB 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 1, 2 x M.2 SSDs, uSD card	Up to 6 x 2.5" drives per node or 3 x 3.5" drives per node, Supports BOSS
NVMe	Up to 2 NVMe drives per C6520 sled PCIe	Up to 2 NVMe drives per C6420 server
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 OCP mezzanine, 1 x 16 low profile PCIe slot, 1 x 8 mezz for storage controller
GPU support	One 70W (low-profile) GPU	Not available
Rack height	2U	2U
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 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)

Cyber Resilient Architecture for Zero Trust IT environment & operations

Security is integrated into every phase of the PowerEdge lifecycle, including protected supply chain and factory-to-site integrity assurance. Silicon-based root of trust anchors end-to-end boot resilience while Multi-Factor Authentication (MFA) and role-based access controls ensure trusted operations.

Increase efficiency and accelerate operations with autonomous infrastructure

The Dell OpenManage™ systems management portfolio delivers a secure, efficient, and comprehensive solution for PowerEdge servers. Simplify, automate and centralize one-to-many management with the OpenManage Enterprise console and iDRAC.

With OpenManage Enterprise with Power Manager, you can genuinely benefit from datacenter level cooling efficiency by monitoring power usage. When you can manage your server thermals you will reduce energy waste, reduce wear, tear on your equipment, and extend the life of your investment.

Sustainability

From recycled materials in our products and packaging, to thoughtful, innovative options for energy efficiency, the PowerEdge portfolio is designed to make, deliver, and recycle products to help reduce the carbon footprint and lower your operation costs. We even make it easy to retire legacy systems responsibly with Dell Technologies Services.

Rest easier with Dell Technologies Services

Maximize your PowerEdge Servers with comprehensive services ranging from Consulting, to ProDeploy and ProSupport suites, Data Migration and more – available across 170 locations and backed by our 60K+ employees and partners.

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