DELL PowerEdge C6620 Server Node Instructions

DELL PowerEdge C6620 Server Node Instructions

Scale-out applications, not your data center footprints

The next-generation compute-dense Dell PowerEdge C6620 is a multi-node (2U4N) server designed for compute-intensive workloads. Right-sized low-latency storage makes it ideal for IOP heavy workloads. With improved Dell DLC (direct liquid cooling) support and expanded air-cooling coverage, thermal efficiencies can help lower energy and ownership costs while helping scale your business.

Reduce design cycles and innovate faster
Delivering breakthrough innovation, the PowerEdge C6620 enables high-performance and scale-out computing with performance and density. Requiring only half the footprint of 1U rack servers, take advantage of lowered TCO with halfthe infrastructure.

Max ROI

- Use up to two Next Generation Intel Xeon Scalable processors with up to 56 cores per processor and up to 8,960 cores in a standard 42U rack (compared to 4,480 cores in a 1U rack).
- Enables DDR5 at 4800 MT/s memory and PCIe Gen5 with double the speed of previous Gen4 for faster access and transport of data, optimizing application output.
- Optional liquid cooling is available to efficiently cool high-performance CPUs while reducing energy costs and carbon footprint.

Experience more container density to support the most demanding applications
The Dell PowerEdge C6620 server is designed with a cyber-resilient architecture, integrating security deeply into every phase in the lifecycle, from design to retirement.

- Deploy more containers per physical host using increased core count and higher memory footprint than previous generations.
- Reduce noisy neighbor problems by physically separating containers using multi node infrastructure.

Expect increased expandability by storing more data in one server, saving space in your datacenter

- Support lower latency higher performance NVMe SSD in a hardware RAID solution helps maximize compute performance.
- Faster, low-latency storage with Gen5 E3.S.

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 an autonomous infrastructure

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

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 countries and backed by our 60K+ employees and partners.

PowerEdge C6620
The Dell PowerEdge C6620 is a dense multi-node server delivering peak performance and excellent TCO. Ideal for:

- High-Performance Computing (HPC)
- Web Tech

Feature	Technical Specifications
Chassis	Dell PowerEdge C6600 chassis

Nodes	Up to 4 hot-swappable 2-socket C6620 sleds in a 2U C6600 chassis
Processor	Up to two 4th Generation Intel Xeon Scalable processors, with up to 56 cores per processor
Memory	16 DDR5 DIMM slots, supports RDIMM of 4 TB max, speeds up to 4800 MT/s - Supports registered ECC DDR5 DIMMs only
Storage controllers	- Internal controllers (RAID): PERC H965i, PERC H755, PERC H355 - Internal boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 1, 2 x M.2 SSDs 480 GB or 960 GB - Internal 12 Gbps SAS HBAs (non-RAID): Internal HBA355i - Software RAID: S160
Availability	Hot-plug redundant drives and PSUs
Drive Bays	- Front bays: - Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) drives max 61 TB - Up to 8 x E3.s NVMe SSD drives max 288 TB - System with no backplane
Power Supplies	3200W 277 VAC or 336 VDC redundant, hot swap 2800W Titanium 200-240 VAC or 240 VDC redundant, hot swap 2400W Platinum 100-240 VAC or 240 VDC redundant, hot swap 1800W Titanium 200-240 VAC or 240 VDC redundant, hot swap
Cooling Options	Air cooling, optional processor liquid cooling
Fans	Up to 4 cold swap fans
Dimensions	- Height – 40.0 mm (1.57 inches) - Width – 174.4 mm (6.86 inches) - Depth – 549.7 mm (21.64 inches)
Weight	42.5 kg (93.69 pound)

Embedded Management	- iDRAC9 - iDRAC Direct - iDRAC RESTful API with Redfish - iDRAC Service Module
OpenManage Software	- CloudIQ for PowerEdge plugin - OpenManage Enterprise - OpenManage Enterprise Integration for VMware vCenter - OpenManage Integration for Microsoft System Center - OpenManage Integration with Windows Admin Center - OpenManage Power Manager plugin - OpenManage Service plugin - OpenManage Update Manager plugin
Mobility	OpenManage Mobile
Integrations	- BMC Truesight - Microsoft System Center - OpenManage Integration with ServiceNow - RedHat Ansible Modules - Terraform Providers - VMware vCenter and vRealize Operations Manager
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
Embedded NIC	1 x 1 GbE
GPU Options	Up to 2 x 75W low-profile, half-length
Network cards	1 x OCP 3.0 x16 Gen4 (for network controller)

Rear Ports	- 1 x USB 3.0 - 1 x iDRAC ethernet port - 1 x iDRAC Direct (Micro-AB USB) port - 1 x Mini-DisplayPort
PCIe	- 2 x PCIe Gen5 slots: - 1 x16 Gen5 (x16 PCIe) low-profile, half-length (slot 1 optional) - 1 x16 Gen5 (x8 + x8 PCIe) low-profile, half-length for SNAP I/O module (slot 1 optional) - 1 x16 Gen5 (x16 PCIe) low-profile, half-length (slot 2 optional) - 1 x16 Gen5 (x8 PCIe) low-profile, half-length (slot 2 optional)
Operating System and Hypervisors	- Canonical Ubuntu Server LTS - Microsoft Windows Server with Hyper-V - Red Hat Enterprise Linux - SUSE Linux Enterprise Server - VMware ESXi/vSAN For specifications and interoperability details, see **Dell.com/OSsupport**.
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit **Dell.com** > Solutions > OEM Solutions.

APEX on Demand

APEX Flex on Demand Acquire the technology you need to support your changing business with payments that scale to match actual usage. For more information, visit **www.delltechnologies.com/en-us/payment-solutions/flexible-consumption/flex-ondemand.htm**
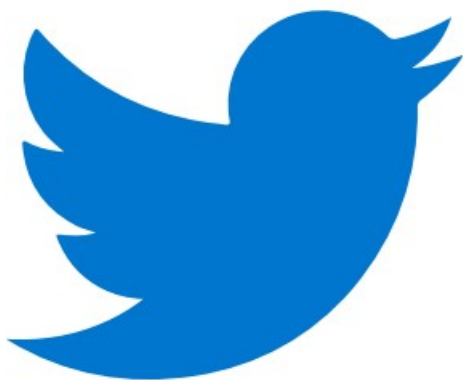
Learn more about our PowerEdge servers

Learn more about our systems management solutions

Search our Resource Library

Follow PowerEdge servers on Twitter

Contact a Dell Technologies Expert for **Sales or Support**

Contents

Documents / Resources

DELL PowerEdge C6620 Server Node [pdf] Instructions

PowerEdge C6620 Server Node, C6620 Server Node, Server Node, Node

References

- **Computers, Monitors & Technology Solutions | Dell USA**
- **Server Operating Systems | Dell US**
- **APEX Flex on Demand | Dell USA**

Manuals+,