

C6525-IR (Immersion Ready)

Ideal for High Performance Dense-Computing Environments



The Dell EMC PowerEdge C6525 optimized for Immersion by UNICOM Engineering, C6525-IR, is a compute-dense server designed to boost data center performance to tackle a variety of High-Performance Computing (HPC) workloads and applications.

High-level features:

- Up to 512 processing cores in a 2U/4N dense server - The most available processing cores of any 2U Dell EMC PowerEdge server
- Up to 3200MT/s memory speed to reduce latency and deliver faster response
- Faster data transfer speeds with PCIe Gen 4
- Optimized core count and memory for large datasets
- Low latency and flexible high-speed fabric for highly performant clusters
- Cost optimized design with rich single-socket configurations

Gain a Competitive Advantage

Many times, the best way to deliver a truly competitive solution is to leverage the products, skills, and resources of proven partners. Building on innovative Intel technology, UNICOM Engineering's design, integration, logistics and support expertise helps customers streamline software application deployment and shorten time to revenue. Our strong foundation of engineering expertise, process-driven manufacturing, technology partner relationships, and an unrelenting commitment to quality has made UNICOM Engineering one of the most trusted deployment partners in the industry.

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technical specifications



C6525-IR Rear View

Chassis

- Dell EMC PowerEdge C6400 chassis, 2U/4 Nodes

Dimensions

- Height: 86.8mm (3.4")
- Width: 448.0mm (17.6")
- Depth: 797.3 mm (31.3")

Nodes

- Four hot-swappable dual-socket compute nodes in a 2U chassis

Processor

- Two 2nd or 3rd Generation AMD EPYC™ Processors with up to 64 cores per processor

Memory

- Up to 16 x DDR4
- RDIMM 2TB Max
- LRDIMM 2TB Max
- Bandwidth up to 3200 MT/S

Controllers

- HW RAID: PERC 10.4 port for H745, H345, HBA345 Chipset
- SW RAID (S150): Yes

Drive Bays (SSD Only)

- 2.5" Direct Backplane configuration with up to six SAS/SATA drives per node, up to 24 per chassis
- 2.5" NVMe Backplane configuration with up to two NVMe drives and 4 SAS/SATA drives per node
- Up to 24 drives total per chassis
- Internal: uSD card | M.2 SATA BOSS 1.0

Power Supplies

- Dual Hot-plug redundant 2400W AC Power Supply
- Dual Hot-plug non-redundant 2400W AC Power Supply

Cooling

- Optimized for Immersion Cooling Systems

Fans

- Optimized for Immersion Cooling Systems

Embedded Management

- iDRAC9
- iDRAC RESTful API with Redfish
- iDRAC Direct

Embedded NIC

- 2x 1 GbE LOM ports

Networking Options

- 1x OCP 3.0

GPU Options

- 1x Single-Wide GPU

Rear Ports

- 1x iDRAC Direct micro-USB port
- 1x Mini-display port
- 1x iDRAC or NIC port
- 1x USB 3.0 port

PCIe

- 2x PCIe x16 Gen4 Risers
- 1x OCP 3.0 x16 Gen4
- 1x PCIe x8 Gen3 M.2 Riser

Operating Systems & Hypervisors

- Canonical Ubuntu Server LTS
- Citrix Hypervisor™
- Microsoft Windows Server with Hyper-V
- Red Hat Enterprise Linux
- SUSE Linux Enterprise Server
- VMware ESXi

Note: These specifications should be viewed as preliminary and final specifications may vary.

Support and Maintenance Services

UNICOM Engineering offers a variety of support and maintenance service programs to ensure high availability, rapid response, effective troubleshooting, fast parts replacement and 24-hour support.


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