

# C6620-IR (Immersion Ready)

## Compelling performance, high scalability, and density



The Dell EMC PowerEdge C6620 optimized for Immersion by UNICOM Engineering, C6620-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 4 hot-swappable 2-socket C6620 sleds in a 2U C6600 chassis
- Use up to two 4th Generation and future 5th Generation Intel® Xeon® Scalable processors with up to 56 cores per processor
- Enables DDR5 AT 4800MT/s memory speed
- PCIe Gen5 with double the speed of previous Gen4 for faster access and transport of data optimizing application output.
- Low latency and flexible high-speed fabric for highly performant clusters
- Cost optimized design with rich single-socket configurations

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### 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.

# C6620-IR (Immersion Ready)

## technical specifications



C6620-IR Rear View

### 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

### Drive Bays (SSD Only)

#### Front Bays:

- Up to 16 x 2.5-inch NVMe SSDs

### Power Supplies

- 2800W

### Cooling

- Optimized for Immersion Cooling System

### Dimensions

- Height – 40.0 mm (1.57 inches)
- Width – 174.4 mm (6.86 inches)
- Depth – 549.7 mm (21.64 inches)

### Embedded Management

- iDRAC9
- iDRAC Direct
- iDRAC RESTful API with Redfish
- iDRAC Service Module

### Embedded NIC

- 1 x 1 GbE LOM

### Network Options

- 1 x OCP 3.0 x16 Gen4 (for network controller)

### Ports

#### 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 per sled:

- 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

**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.

Please visit [www.unicomengineering.com/supportservices](http://www.unicomengineering.com/supportservices) for more information.

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