R760xa-IR (Immersion Ready)

General purpose server optimized to address the most demanding workloads

The Dell EMC PowerEdge R760xa optimized for Immersion by UNICOM Engineering, R760xa-IR, powered by the 4th Generation Intel® Xeon® processors is the optimal rack server to address application performance and acceleration. The R760xa-IR is a dual-socket/2U rack server that delivers outstanding performance for the most demanding workloads. It supports 8 channels of memory per CPU, and up to 32 DDR5 DIMMs @ 4800 MT/s speeds. In addition, to address substantial throughput improvements the R760xa-IR supports PCIe Gen5 and up to 8 SSD drives with liquid immersion cooling features to support increasing power and thermal requirements. This makes the R760xa-IR an ideal server for data center standardization on a wide range of workloads including Database and Analytics, High-performance computing (HPC), Traditional corporate IT, and AI/ML environments that require performance, extensive storage, and GPU support.

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.

R760xa-IR (Immersion Ready)
technical specifications

R760xa-IR Rear View

Processor

- Up to two 4th Generation Intel Xeon Scalable processors, with up to 56 cores per processor

Memory

- 32 DDR5 DIMM slot, supports RDIMM 8 TB max, speeds up to 4800 MT/s
- Supports registered ECC DDR5 DIMMs only

Storage Controllers

- Internal controllers: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i
- Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSDs, or USB
- External HBA (non-RAID): HBA355e, H965e

Drive Bays

Front Bays:

- Up to 8 x 2.5-inch NVMe SSDs
- Up to 6 x 2.5-inch NVMe SSDs

Power Supplies

- 1400W/2400W/2800W

Cooling

- Optimized for Immersion Cooling Systems

Dimensions

- Height – 86.8 mm (3.41 inches)
- Width – 482 mm (18.97 inches)
- Depth – 889.8 mm (35.22 inches)

Embedded Management

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

Embedded NIC

- 2 x 1 GbE LOM

Networking Options

- 1 x OCP 3.0 (x8 PCIe lanes)

GPU Options

Up to 4 GPUs:

- Nvidia A40
- Nvidia L40
- Nvidia H100

Ports

Front Ports:

- 1 x iDRAC Direct (Micro-AB USB) port
- 1 x USB 2.0

Ports (continued)

Rear Ports:

- 1 x Dedicated iDRAC Ethernet port
- 1 x USB 2.0
- 1 x USB 3.0
- 1 x Serial (optional)
- 1 x VGA

Internal Ports:

- 1 x USB 3.0

PCIe

Up to twelve PCIe slots (x16 connector)

- 4 x16 rear full-height, half-length + 4 x16 front full-height, full-length DW
- 4 x16 rear full-height, half-length + 8 x 8 front full-height, full-length SW

Operating System and Hypervisors

- Canonical Ubuntu Server LTS
- Microsoft Windows Server with Hyper-V
- Red Hat Enterprise Linux
- SUSE Linux Enterprise Server
- VMware ESXi For specifications

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** for more information.

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