

R760-IR Server



R760-IR (IMMERSION READY) GENERAL PURPOSE SERVER OPTIMIZED TO ADDRESS THE MOST DEMANDING WORKLOADS

The Dell EMC PowerEdge R760 optimized for Immersion by UNICOM Engineering, R760-IR, powered by the 4th or 5th Generation Intel® Xeon® Scalable processors is the optimal rack server to address application performance and acceleration. **The R760-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 @ 5600 MT/s speeds.

In addition, to address substantial throughput improvements the R760-IR supports PCIe Gen5 and up to 24 SSD drives with liquid immersion cooling features to support increasing power and thermal requirements. This makes the R760-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.

**BUILT FOR COMPUTE
INTENSIVE WORKLOADS**

Database &
Analytics

High-Frequency
Trading

Traditional
Corporate IT

HPC

AI & Machine
Learning



R760-IR Rear View

TESTING AND VALIDATION

Each R760-IR undergoes rigorous validation and testing to ensure optimal performance in immersion environments addressing:

- Thermal management requirements
- Signal integrity optimization
- Material compatibility verification
- Performance reliability in immersion conditions

TECHNICAL SPECIFICATIONS

R760-IR (IMMERSION READY)

Processor	Up to two 4 th or 5 th Generation Intel Xeon Scalable processors, with up to 56 cores per processor	Embedded Management	iDRAC9 iDRAC Service Module iDRAC Direct iDRAC RESTful API with Redfish
Memory	32 DDR5 DIMM slots, supports RDIMM 8 TB max, speeds up to 5600 MT/s	Embedded NIC	2 x 1 GbE LOM riser
Storage Controllers	Internal Controllers: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i Boot Optimized Storage Subsystem (BOSS-N1): HWRaid 2 x M.2 NVMe SSDs or USB	Networking Options	1 x OCP 3.0 (x8 PCIe lanes)
Drive Bays	Front Bays: Up to 24 x 2.5-inch SAS/SATA/NVMe SSD Rear Bays: Up to 2 x 2.5-inch SAS/SATA/NVMe SSD Up to 4 x 2.5-inch SAS/SATA/NVMe SSD	GPU Options	Up to 2x Double Wide GPU Up to 6x Single Wide GPU/DPU
Cooling	Optimized for Immersion Cooling Systems	Front Ports	1 x iDRAC Direct (Micro-AB USB) port 1 x USB 2.0 1 x VGA
Power Supplies	Up to Redundant 2800W AC Titanium Power Supply Units	Rear Ports	1 x Dedicated iDRAC Ethernet port 1 x USB 2.0 1 x USB 3.0 2x RJ-45 1 x VGA
Dimensions <i>excluding immersion mounting brackets</i>	Height: 86.8 mm (3.41 inches) Width: 482 mm (18.97 inches) Depth: 758.3 mm (29.85 inches)	Internal Ports	1 x USB 3.0
Brackets	Immersion brackets are available for common-industry tanks	PCIe	Up to 8 x PCIe Gen5 slots (up to 6x16)
		Operating System and Hypervisors	Canonical Ubuntu Server LTS Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi

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

WARRANTY SUPPORT

UNICOM Engineering provides a standard 1-year base warranty that can be enhanced with extended coverage options up to 5 years, ensuring long-term protection for your critical infrastructure investment. This holistic approach helps organizations fully realize the efficiency and performance benefits of immersion cooling solutions, making it an ideal choice for high-density data centers facing increasing AI computational demands.



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