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 INTESIVE 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 4th or 5th Generation Intel Xeon Scalable processors, with up to 56 cores per processor
Memory	32 DDR5 DIMM slots, supports RDIMM 8 TB max, speeds up to 5600 MT/s
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
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
Cooling	Optimized for Immersion Cooling Systems
Power Supplies	Up to Redundant 2800W AC Titanium Power Supply Units
Dimensions *excluding immersion mounting brackets*	Height: 86.8 mm (3.41 inches) Width: 482 mm (18.97 inches) Depth: 758.3 mm (29.85 inches)
Brackets	Immersion brackets are available for common-industry tanks

Embedded Management	iDRAC9 iDRAC Service Module iDRAC Direct iDRAC RESTful API with Redfish
Embedded NIC	2 x 1 GbE LOM riser
Networking Options	1 x OCP 3.0 (x8 PCIe lanes)
GPU Options	Up to 2x Double Wide GPU Up to 6x Single Wide GPU/DPU
Front Ports	1 x iDRAC Direct (Micro-AB USB) port 1 x USB 2.0 1 x VGA
Rear Ports	1 x Dedicated iDRAC Ethernet port 1 x USB 2.0 1 x USB 3.0 2x RJ-45 1 x VGA
Internal Ports	1 x USB 3.0
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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