R760XA-IR Server

R760XA-IR (IMMERSION READY)
THE DELL R760XA-IR OPTIMIZED FOR IMMERSION BY UNICOM ENGINEERING

The Dell PowerEdge R760XA, optimized for immersion by UNICOM Engineering, enables you to maximize performance and scale with confidence. This dual-socket 2U immersion-ready server flexibly supports a wide range of GPUs to accelerate demanding workloads—from AI training and inferencing to Digital Twins and high-performance collaboration—empowering you to grow compute as your needs evolve. Powered by 4th or 5th Gen Intel® Xeon® processors, the R760XA-IR is engineered to deliver exceptional application performance and acceleration, making it the ideal platform for your 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 R760XA-IR supports PCIe Gen5 and up to 6 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.

BUILT FOR COMPUTE INTESIVE WORKLOADS

Database & Analytics	High-Frequency Trading	Traditional Corporate IT	HPC	AI & Machine Learning

R760XA-IR Server Rear View

TESTING AND VALIDATION

The R760XA-IR solution has been rigorously validated to ensure optimal performance in immersion environments, addressing key factors such as thermal management, signal integrity, material compatibility, and long-term reliability.

UNICOM Engineering, Inc.
A Division of UNICOM Global

TECHNICAL SPECIFICATIONS
R760XA-IR (IMMERSION READY)

Processor	Up to two 4th or 5th Generation Intel Xeon Scalable processors, with up to 64 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, HBA465i

Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSDs |
Drive Bays	Front Bays: Up to 6 x 2.5-inch NVMe SSDs
Cooling	Optimized for Immersion Cooling Systems
Power Supplies	Redundant Platinum 2400w or Titanium 2800w
Dimensions *excluding immersion mounting brackets*	Height – 86.8 mm (3.41 inches)
Width – 482 mm (18.97 inches)
Depth – 946.73 mm (37.27 inches)
Brackets	Immersion brackets are available for common-industry tanks
Form Factor	2U rack server

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 100Gbe
GPU Options	Up to 4 Nvidia L40/L40s GPUs
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 Serial
1 x VGA
PCIe	4 x16 Rear Full height, Half-length + 4 x16 Front Full height, Full length DW
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

These specifications are subject to change.

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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