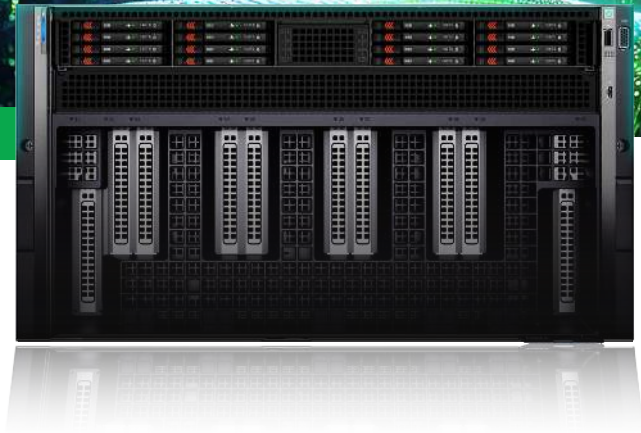


XE9680-IR HGX 8-Way GPU Platform

XE9680-IR BUILT FOR AI OPTIMIZED FOR IMMERSION



Experience unprecedented acceleration for AI/ML/DL training with the immersion-ready XE9680-IR HGX 8-way GPU platform, optimized by UNICOM Engineering. Delivering superior performance, density, and scalability while leveraging single-phase immersion cooling to meet demanding energy-efficiency requirements. Powered by up to two 5th Generation Intel Xeon Scalable processors with up to 64 cores each, this 6U platform features eight NVIDIA H100 or H200 700W SXM5 GPUs connected via four NVLink switch chips, making it **acceleration-optimized for AI workloads at scale.**

UNLEASHING NEXT-GEN EFFICIENCY

A breakthrough in data center cooling technology, designed for immersion cooling environments, delivering:

- Significantly enhanced power and water usage efficiency
- Substantially reduced noise levels compared to air cooling
- More computing power in the same footprint
- Thermal management for sustained high-performance

TESTING AND VALIDATION

Each XE9680-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

HIGH-LEVEL FEATURES

Advanced Compute
Architecture

Enhanced Memory
Performance

Extensive Expansion
Options

Comprehensive
Support

BUILT FOR ADVANCED AI WORKLOADS

Generative AI
(GenAI)

Large Language
Models (LLMs)

Machine
Learning (ML)

Deep
Learning (DL)

TECHNICAL SPECIFICATIONS

XE9680-IR HGX 8-Way GPU Platform

Processor	Up to two 4th or 5th Generation Intel Xeon Scalable processor with up to 64 cores per processor	Embedded Management	iDRAC9 iDRAC Direct iDRAC RESTful API with Redfish iDRAC Service Module
Memory	32 DDR5 DIMM slots, supports RDIMM 4TB max speeds up to 5600 MT/s Supports registered ECC DDR5 DIMMs only	Networking Options	1 x OCP 3.0 (x8 PCIe lanes)
Storage Controllers	Internal boot: Boot Optimized Storage Subsystem (NVMe BOSS-N1): HWRAID 1, 2 x M.2 SSDs	GPU Options	8 NVIDIA HGX H100 80GB or 8 NVIDIA HGX H200 141GB 700W, SXM5 GPUs, fully interconnected with NVIDIA NVLink technology
Front Drive Bays	Up to 8 x 2.5-inch NVMe SSD drives	Cooling	Optimized for Immersion Cooling
Power Supplies	Up to Redundant 2800W and 3200W (277V) AC Titanium Power Supply Units	Top Ports	1 x iDRAC Direct (Micro-AB USB) port 1 x USB 2.0 1 x VGA
Dimensions	Height: 263.2 mm (10.36 inches) Width: 482.0 mm (18.97 inches) Depth: 995 mm (39.17 inches) without bezel	Bottom Ports	1 x USB 2.0 1 x USB 3.0 1 x VGA 1 x RJ45 iDRAC9 ethernet port
Form Factor	6U rack server	PCIe	Up to 10 x16 Gen5 (x16 PCIe) full-height, half-length
Embedded NIC	2 x 1 GbE LOM	Operating System and Hypervisors	Canonical Ubuntu Server LTS Red Hat Enterprise Linux

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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