UNICOM Engineering, Inc.
A Division of UNICOM Global

HPE Immersion Ready Servers

Powerful, Secure, and Ready for the Future.

Businesses today need servers that can keep up with growing demands—whether it's handling complex workloads, supporting virtualization, or scaling operations seamlessly. The HPE ProLiant DL365, DL380, and DL360 are designed to deliver top-tier performance with reliability you can count on. These servers enable organizations to stay ahead in an ever-evolving digital landscape, offering advanced security features, intelligent automation, and flexible configurations. Whether you need efficiency, power, or versatility, HPE ProLiant gives you the foundation to innovate and grow with confidence.

Power That Stays Cool

Liquid cooling solutions enable servers to run more efficiently by reducing energy costs and enhancing heat management for demanding workloads. Designed for ProLiant Compute, advanced cooling technology enables higher-density computing without the overheating risks associated with traditional air cooling. By keeping systems cooler and more reliable, liquid cooling supports peak performance while also being a more sustainable choice.

Hewlett Packard Enterprise

HPE ProLiant DL360-IR Gen11

A powerful yet compact 1U Intel-based server, optimized for balanced performance and density. Featuring up to 64 cores, 8 TB of DDR5 memory at 5600 MHz, and 16 DIMMs, it's built for virtualization, cloud computing, and edge deployments, delivering high-speed processing in a streamlined footprint.

HPE ProLiant DL365-IR Gen11

A compact 1U server powered by AMD, built for high-density computing with exceptional memory depth and fast data transfer speeds. With up to 160 cores and 6 TB of DDR5 memory, it's an ideal choice for VDI, EDA, and CAD workloads that require efficient compute power in a space-saving design.

HPE ProLiant DL380-IR Gen11

A versatile 2U Intel-powered server, designed for scalability and flexibility to handle demanding workloads. Supporting up to 64 cores, 8 TB of memory, and 20 EDSFF drives, it excels in software-defined storage, video transcoding, and virtualized applications, offering high memory density and expansion.

Technical Specifications	HPE ProLiant DL360-IR	HPE ProLiant DL365-IR	HPE ProLiant DL380-IR
Processor	Up to two 4th or 5th Generation Intel Xeon Scalable processor that supports up to 64 cores	Up to two 4th or 5th Generation AMD EPYC processor that supports up to 16- cores	Up to two 4th or 5th Generation Intel Xeon Scalable processor that supports up to 64 cores
Memory	32 DDR5 DIMM slots, Max, speeds up to 5600 MT/s 16 DIMMs per CPU	24 DDR5 DIMM slots, Max, speeds up to 5600 MT/s 12 DIMMs per CPU	32 DDR5 DIMM slots, Max, speeds up to 5600 MT/s 16 DIMMs per CPU
Storage Controllers	Internal Controllers: HPE MR408i-o Gen 11 x8 Lanes 4GB Cache OCP SPDM Storage	Internal Controllers: HPE MR408i-o Gen 11 x8 Lanes 4GB Cache OCP SPDM Storage NVMe Boor Device: HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	HPE MR416i-p Gen11 SPDM Storage Controller HPE MR216i-p Gen11 SPDM Storage Controller HPE MR216i-o Gen11 SPDM Storage Controller HPE MR408i-o Gen11 SPDM Storage Controller
Drive Bays	Front Bays: Up to 8 x 2.5-inch NVMe	Front Bays: Up to 8 x 2.5-inch NVMe	Front Bays: Up to 24 x 2.5-inch NVMe ssd Rear Bays: Up to 2 x 2.5-inch NVMe ssd
Power Supplies	Dual Redundant 1000W Titanium or 1600w Platinum	Dual Redundant 1000W Titanium or 1600w Platinum	Dual Redundant 1000W Titanium or 1600w Platinum
Cooling	Optimized for Immersion Cooling Systems	Optimized for Immersion Cooling Systems	Optimized for Immersion Cooling Systems
Dimensions	Height: 42.9 mm (1.69 inches) Width: 435 mm (17.13 inches) Depth: 753 mm (29.65 inches)	Height: 42.9 mm (1.69 inches) Width: 435 mm (17.13 inches) Depth: 650 mm (25.57 inches)	Height: 87.37 mm (3.44 inches) Width: 435 mm (17.13 inches) Depth: 646 mm (25.44 inches)
Form Factor	1U Rack Server	1U Rack Server	2U Rack Server
Embedded NIC	N/A	N/A	N/A
Embedded Management	HPE Integrated Lights-Out (HPE iLO) iLO RESTful API iDRAC Direct iDRAC iLO RESTful API API with Redfish	HPE Integrated Lights-Out (HPE iLO) iLO RESTful API iDRAC Direct iDRAC iLO RESTful API API with Redfish	HPE Integrated Lights-Out (HPE iLO) iLO RESTful API iDRAC Direct iDRAC iLO RESTful API API with Redfish
Network Options	Up to 2 OCP 3.0 (X16 PCIe lanes)	Up to 2 OCP 3.0 (X16 PCIe lanes)	Up to 2 OCP 3.0 (X16 PCIe lanes)
Front Ports	1 x iLO Direct Service Port 1 x USB 3.2 Gen 1 Port 1 x USB 2.0	1 x iLO Direct Service Port 1 x USB 3.2 Gen 1 Port 1 x USB 2.0	1 x iLO Direct Service Port 1 x USB 3.2 Gen 1 Port 1 x USB 2.0
Rear Ports	1 x iLO Management Ethernet Port 2 x USB 3.2 1 x VGA	1 x iLO Management Ethernet Port 2 x USB 3.2 1 x VGA	1 x iLO Management Ethernet Port 2 x USB 3.2 1 x VGA
Internal Ports	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
PCIe	Up to 2 x PCIe Gen 5 slots (up to 2x16)	Up to 2 x PCIe Gen 5 slots (up to 2x16)	Up to 8 x PCIe Gen 5 slots (up to 8x16)
Operating System and Hypervisors	Canonical Ubuntu Server LTS Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi	Canonical Ubuntu Server LTS Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi	Canonical Ubuntu Server LTS Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi

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 server 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

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.

Special Notes

Requires factory installed immersion firmware

Why Choose UNICOM Engineering?

- Proven expertise deploying large-scale GPU server environments
- Expert management of complex networking for AI and HPC requirements
- Global reach with deployment and installation worldwide
- End-to-end project management from design through deployment
- Flexible solutions tailored to your unique infrastructure needs
- Strategic partnerships at all levels ensure access to the latest innovations

Experience You Can Trust

With a track record of successful large-scale deployments, including projects involving hundreds of racks and thousands of high-performance servers, UNICOM Engineering has the expertise to handle your most complex data center requirements. Our team has supported some of the largest generative AI workloads in the world, giving us unparalleled insight into the challenges and solutions for these cutting-edge deployments.

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