



H3C UniServer R6900 G5 Server

4-way 4U High-scalable rack server designed for core business scenarios

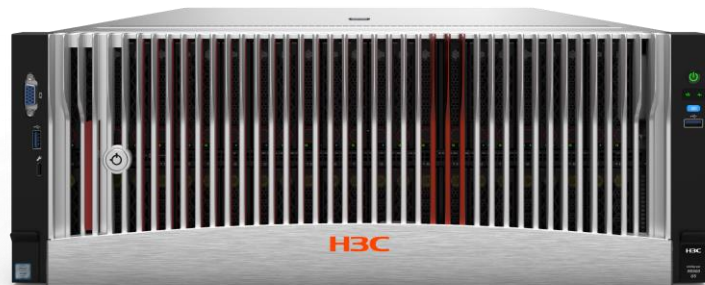
Intel® Xeon® with AI acceleration built in,

Enable your intelligent transformation

Release Date: August, 2021



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Industrial-leading performance improves data center productivity

- 4 sockets of the 3rd Gen Intel® Xeon® Scalable Processors
- 9 x single-slot wide GPU modules or 3 x double-slot wide GPU
- 24 x Intel® Optane™ DC Persistent Memory Module (PMem 200)

Favorable Scalability and flexibility

- Modular Design
- Flexible 50 sff Drives
- 24 x NVME+M.2+MicroSD
- 18 x full height PCI-E 3.0 Slots+1 OCP3.0 slot

Enterprise-grade RAS

- High RAS features
- Redundant Components

Effective Security Design

- TPM/TCM
- Chassis Intrusion Detection
- Silicon Root of Trust

Highlights: High Performance High Reliability, High Scalability

New generation H3C UniServer R6900 G5 adopt a modular architecture to provide outstanding scalable capacity supporting up to 50 SFF drives include optional 24 NVMe SSD drives.

R6900 G5 server features Enterprise-grade RAS make it a decent choice for core workload, virtualization Database, data-processing and high-density computing application.

H3C UniServer R6900 G5 utilizes the most recent 3rd Gen Intel® Xeon® Scalable processors. (Cedar Island), 6 UPI Bus interconnection and DDR4 memory with 3200MT/s speed as well as New-generation PMem 200 series persistent memory to strongly lift the performance up to 40% compared with previous platform. With 18 x PCIe3.0 I/O slots to reach excellent IO scalability.

94%/96% power efficiency and 5~45°C operating temperature provide users a TCO returns in a greener data center.

R6900 G5 is optimized for environments:

- Virtualization — Support multiple types of core workloads on a single server to simplify Infra-investment.
- Big Data — Manage exponential growth of structured, unstructured, and semi-structured data.
- Data warehouse/analysis — Query data on demand to help service decision
- Customer relationship management (CRM) — Help you to gain comprehensive insights into business data to improve customer satisfaction and loyalty
- Enterprise resource planning (ERP) — Trust the R6900 G5 to help you manage services in real time
- High-performance computing and deep learning — Provide sufficient GPUs to support machine learning and AI applications
- The R6900 G5 supports Microsoft® Windows® and Linux operating systems, as well as VMware and H3C CAS and can operate perfectly in heterogeneous IT environments.

Detailed Specification

CPU	4 × 3 rd generation Intel® Xeon® Scalable processors (each processor up to 28 cores and maximum 250W power consumption)
Chipset	Intel® C621A
Memory	48 × DDR4 DIMM slots , maximum 12.0 TB* Up to 3200 MT/s data transfer rate and support for both RDIMM and LRDIMM Up to 24 Intel® Optane™ DC Persistent Memory Module PMem 200 series (Barlow Pass)
Storage controller	Embedded RAID controller (SATA RAID 0, 1, 5, and 10) Standard PCIe HBA cards and storage controllers , depending on model
FBWC	8 GB DDR4 cache, depending on model , support supercapacitor protection
Storage	Maximum Front 50SFF, Support SAS/SATA HDD/SSD Drives Maximum 24 front U.2 NVMe Drives SATA M.2 SSDs/2 × SD cards , depending on model
Network	1 × onboard 1 Gbps management network port OCP 3.0 × 16 open slot to install 4 × 1GE copper ports/2 × 10GE/2 × 25GE fiber ports Standard PCIe 3.0 Ethernet Adapters PCIe Standard slots for 1/10/25/40/100GE/IB Ethernet Adapter ,
PCIe slots	18 × PCIe 3.0 FH standard slots
Ports	VGA connectors (Front and Rear) and serial port(RJ-45) 6 × USB 3.0 connectors (2 front, 2 rear, 2 internal) 1 dedicated management connector
GPU	9 × single-slot wide or 3 × double-slot wide GPU modules
Optical drive	External optical disk drive , Optional
Management	HDM (with dedicated management port) and H3C FIST, support LCD touchable smart model
Security	Support Chassis Intrusion Detection TPM2.0 Silicon Root of Trust Two-factor authorization logging
Power supply	Support 4 × Platinum 1600W*(supports 1+1/2+2 redundancy) , 800W –48V DC power supplies (1+1/2+2 redundancy) 8 × Hot swappable fans
Standards	CE, UL , FCC, VCCI, EAC, etc.
Operating temperature	5°C to 45°C (41°F to 113°F) The maximum operating temperature varies by server configuration. For more information, see the technical documentation for the device.
Dimensions (H × W × D)	4U Height Without a security bezel: 174.8.5 × 447 × 799 mm (6.88 × 17.59 × 31.46 in) With a security bezel: 174.8 × 447 × 830 mm (6.88 × 17.59 × 32.67 in)

* See related manual for detailed configuration



The Leader in Digital Solutions

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