H3C UniServer R4900 G5 Server

2-way 2U rack server for intelligent compute for data center

Intel® Xeon, Enable Performance Efficiency

Release Date: November, 2023

New H3C Technologies Co., Limited
H3C UniServer R4900 G5 Server

Highlights: High Performance, High Reliability, High Scalability

New generation H3C UniServer R4900 G5 provide outstanding scalable capacity supporting up to 24 NVMe drives to enhance configuration flexibility for modern data centers.

H3C UniServer R4900 G5 server is a H3C self-developed mainstream 2U rack server. R4900 G5 utilizes the most recent 3rd Gen Intel® Xeon® Scalable processors and 8 channel DDR4 memory with 3200MT/s speed to strongly lift the bandwidth up to 60% compared with previous platform.

With 10 x PCIe 4.0 I/O slots and 2 xOCP 3.0 to reach excellent IO scalability.

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

R4900 G5 is optimized for scenarios:

- 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.
- Storage intensive application — dismiss the performance bottleneck
- 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 R4900 G5 to help you manage services in real time
- (Virtual Desktop Infrastructure)VDI — Deploy remote desktop services to provide your employees with the working flexibility anytime, anywhere
- High-performance computing and deep learning — Provide sufficient GPUs to support machine learning and AI applications
- Housing Data center graphics for high-density cloud gaming and media streaming
- The R4900 G5 supports Microsoft® Windows® and Linux operating systems, as well as VMware and H3C CAS and can operate perfectly in heterogeneous IT environments.

Industrial-leading performance improves data center productivity

- Support up to 80 cores and 6TB memory
- 16 x Intel® Optane™ DC Persistent Memory Module(PMem 200)
- AI-Optimized GPU

Favorable Scalability and flexibility

- Support up to 29 Drives
- 24 x NVME+M.2+MicroSD
- 10 x PCI-E 4.0 Slots+2 OCP3.0 slots

Full life-cycle management to reduce TCO

- Industrial-standard OOB system-HDM
- FIST-batch job execution
- Two-factor authorization

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# Detailed Specification

| **CPU**          | 2 x 3rd generation Intel® Xeon® Ice Lake SP  
| (each processor up to 40 cores and maximum 270W power consumption) |
| **Chipset**      | Intel® C621A |
| **Memory**       | 32 x DDR4 DIMM slots, maximum 6.0 TB  
|                  | Up to 3200 MT/s data transfer rate RDIMM  
|                  | Up to 16 Intel * Optane™ DC Persistent Memory Module PMem 200 series (Barlow Pass) |
| **Storage controller** | Embedded RAID controller  
|                  | Standard PCIe HBA controller or storage controller, depending on model |
| **FBWC**         | 8 GB DDR4 cache, depending on model, support supercapacitor protection |
| **Storage**      | Up to front 12LFF bays, Rear 4LFF/4SFF bays  
|                  | Up to front 25SFF bays, Rear 4LFF/4SFF bays  
|                  | Front/Rear SAS/SATA HDD/SSD NVMe Drives, maximum 24 x U.2 NVMe Drives  
|                  | SATA or PCIe M.2 SSDs, 2 x SD card kit, depending on model |
| **Network**      | 1 x onboard 1 Gbps management network port  
|                  | 2 x OCP 3.0 (x16) slots for 4 x 1GE or 2 x 10GE or 2 x 25GE NICs  
|                  | PCIe Standard slots for 1/10/25/40/100/200GE/IB Ethernet adapter |
| **PCle slots**   | 10 x PCIe 4.0 standard slots |
| **Ports**        | VGA ports (Front and Rear) and serial port (RJ-45)  
|                  | 6 x USB 3.0 ports (2 front, 2 rear, 2 internal)  
|                  | 1 dedicated management Type-C port |
| **GPU**          | 8 x single-slot wide or 4 x double-slot wide GPU modules |
| **Optical drive**| External optical disk drive, optional |
| **Management**   | HDM OOB system (with dedicated management port) and H3C iFIST/FIST, LCD touchable smart model |
| **Security**     | Intelligent Front Security Bezel  
|                  | Chassis Intrusion Detection  
|                  | TPM2.0  
|                  | Silicon Root of Trust  
|                  | 2FA for HDM |
| **Power supply** | 2 x Platinum 550W/800W/850W/1300W/1600W/2000/2400W (1+1 redundancy), depending on model  
|                  | 800W -48V DC power supply (1+1 Redundancy)  
|                  | Hot swappable redundant 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)** | 2U Height  
|                  | Without a security bezel: 87.5 x 445.4 x 748 mm (3.44 x 17.54 x 29.45 in)  
|                  | With a security bezel: 87.5 x 445.4 x 776 mm (3.44 x 17.54 x 30.55 in) |

*The options may be different depending on the specific requirement, refer to related user guide for detail.*