H3C UniServer R4900 G5 Server

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

Intel® Xeon, Enable Performance Efficiency

Release Date: November, 2022

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 28 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 14 x PCIe3.0 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.
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## Detailed Specification

| **CPU** | 2 x 3rd generation Intel® Xeon® Ice Lake SP series (each processor up to 40 cores and maximum 270W power consumption) |
| **Chipset** | Intel® C621A |
| **Memory** | 32 x DDR4 DIMM slots, maximum 12.0 TB  
Up to 3200 MT/s data transfer rate, support RDIMM or LRDIMM  
Up to 16 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 controller or storage controller, depending on model |
| **FBWC** | 8 GB DDR4 cache, depending on model, support supercapacitor protection |
| **Storage** | Up to front 12LFF bays, internal 4LFF bays, Rear 4LFF+4SFF bays*  
Up to front 25SFF bays, internal 8SFF bays, Rear 4LFF+4SFF bays*  
Front/Internal SAS/SATA HDD/SSD/NVMe Drives, maximum 28 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 |
| **PCIe slots** | 14 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** | 14 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  
Two-factor authorization logging |
| **Power supply** | 2 x Platinum 550W/800W/850W/1300W/1600W/2000W/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*