



H3C UniServer R4900 G6 Server

Flagship Standard Compute

Release Date: April, 2024



New H3C Technologies Co., Limited

H3C UniServer R4900 G6 Server



Highly Efficient Standard Compute

- Up to 128 CPU cores
- Up to 4 dual -slot GPU
- Up to 8 single -slot GPU
- XPU

Ultra I/O Structure

- 32 DDR5 Memory Slots
- 5600MT/s Speed
- 24 U.2 NVME SSD
- 6 PCI-E 5.0 & 4 PCI-E 4.0 Slots
- 2 onboard OCP3.0 Slots

Multi-Tier Protection

- Chassis Intrusion Detection
- SGX 2.0
- TPM 2.0
- HDM Two-factor Authorization

Product Overview

H3C UniServer R4900 G6 server is the latest generation H3C X86 2U 2-Socket Rack Server.

R4900 G6 is featured by Intel's new-generation Eagle Stream platform.

R4900 G6 is suitable for most general computing scenarios, including cloud computing, virtualization, distributed storage, and enterprise resource planning.

For typical applications, such as the Internet, Carriers, enterprises, and governments, R4900 G6 can provide balanced computing performance, storage capacity, power saving, scalability, and reliability. For the management part, it becomes much easier for management and deployment.

H3C UniServer R4900 G6 incorporates the latest Intel® Xeon® Scalable family processor and uses 8 - channel 5600MT/s DDR5 memory technology, bringing up to 8TB* memory expansion and a 50% bandwidth increase. The new I/O structure is compatible with PCIe 5.0 standard with a 100% increased data bandwidth compared with the previous generation.

It achieves excellent scalability through local storage support of up to 10 standard PCIe slots and up to 29 drive slots. 96% power supply energy efficiency, and an operating temperature design of 5°C-45°C, provide users with higher energy efficiency returns.

R4900 G6 is optimized for scenarios:

- Virtualization-multiple types of core workloads on a single server
- 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 business decision
- Customer relationship management (CRM)
- Enterprise resource planning (ERP)
- (Virtual Desktop Infrastructure) VDI
- High-performance computing and deep learning-Provide sufficient GPUs to support machine learning and AI applications
- The R4900 G6 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	2 4th Generation Intel®Xeon®Sapphire Rapids / 5th Generation Intel®Xeon®Emerald Rapids SP series 64 Cores for each Processor and 385W power consumption
Chipset	Inte®C741
Memory	32 DDR5 RDIMM Slots, 5600 MT/s Data Rate, 8TB* on 2 CPU Configuration Additional 16 expansion memory slots via CXL1
Raid Controller	Dedicated PCIe HBA Controller or Raid Controller Standard PCIe HBA Controller or Raid Controller
FBWC	8 GB Cache, support Supercapacitor protection
Storage	29 Drives SAS/SATA HDD/SSD Drives, 24 U.2 NVMe Drives, SATA/NVMe M.2 Kit, DSD Model (2 x SD card kit) Front 12LFF bays, Rear 4LFF bays Front 25SFF bays, Rear 4SFF bays 4 Drive Tri-Mode Backplane
Network	1 Onboard 1Gbps Management Network Port 2 Onboard OCP 3.0 Slots for 4 GE or 2 10GE or 2 25GE or 2 100GE NICs PCIe Standard Slots for 1/10/25/100/200GE Ethernet Adapter
Expansion Slots	10 PCIe Standard Slots (6 PCIe5.0 and 4 PCIe4.0) and 2 Onboard OCP 3.0 Slots CXL1.1 Supports Full-OCP architecture and can support up to 8 OCP3.0 slots*
Ports	Standard: 1 VGA Rear Port, 3 USB 3.0 Ports (1 Front, 2 Rear), 1 USB 2.0 Internal Port, 1 Management Port Optional: 1 Rear Management Port, Mounting Bracket Kit with Type-C port, 1 VGA port, 1 Management Port
GPU	8 Single-Slot or 4 Dual-Slot GPU Modules
Optical Drive	External Optical Disk Drive, Optional
Management	HDM Management System (with dedicated management port) H3C iFIST/UniSystem, LCD touchable model, 64M Video Cache
Security	Intelligent Front Security Bezel Chassis Intrusion Detection TPM2.0 2FA for HDM Intel SGX2.0
Power supply	1+1 Redundancy power supply Titanium 850W/1600W Platinum 800W/1300W/1600W/2000W/2400W/2700W DC power supply Hot swappable Redundant Fans
Standards	CE, UL, FCC, VCCI, CB, etc.
Operating temperature	5°C to 45°C (41°F to 113°F)
Dimensions (H×W×D)	2U Height Without a security bezel: 87.5x445.4x780mm (3.44x17.54x30.7 in) With a security bezel: 87.5x445.4x808mm (3.44x17.54x31.8 in)

*The Options may be different depending on the specific requirement, refer to related User Guide