H3C UniServer R4950 G6 Server

Diversified Compute Pioneer

Release Date: Nov, 2024

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Highly Efficient Diversified Compute

- 2 AMD EPYC 9004 CPU
- Up to 256 CPU cores
- Up to 4 double-width GPU
- xPU supported

Ultra I/O Structure

- 24 DDR5 memory slots
- 4800MT/s memory speed
- CXL1.1 supported
- 28 U.2 NVMe SSD
- 10 PCIe 5.0 slots

Multi-layer Security Protection

- Chassis intrusion detection
- Secure Memory Encryption (SME)
- Secure Encrypted Virtualization (SEV)
- TCM/TPM trusted platform module

Product Overview

H3C UniServer R4950 G6 rack server is an enterprise-level high-performance 2U dual-socket server that can be equipped with AMD EPYC Genoa, Genoa-X and Bergamo series processors. It has the advantages of strong computing power, high reliability, strong scalability, easy management and deployment. It can be widely used in virtualization, cloud computing, HPC, AI and other scenarios.

Product Features

· Support 2 AMD EPYC 9004 series processors, up to 256 physical cores, 100% more cores and 126% more computing performance than the previous generation

· Support up to 24 DDR5 memory slots, memory speed up to 4800MT/s, with a maximum memory capacity of 6TB*. Compared to the previous generation, it has a 64% increase in memory speed and a 125% increase in memory bandwidth

· Support up to 10 PCIe 5.0 standard slots, 2 onboard OCP 3.0 slots and 1 optional OCP 3.0 slot*, greatly improving system expansion capabilities

· Support smart array RAID controller, providing high-speed cache for data reading and writing, and power-off data protection function

· Support up to 4 double-width or 10* single-width GPU modules to fully realize workload acceleration and facilitate machine learning and artificial intelligence applications

· Support TCM/TPM trusted platform module, providing advanced security encryption function

· Enhanced chip security encryption technology realizes memory encryption and virtual machine encryption, making data transmission more secure and reliable

· System management module HDM cooperates with Unisystem management software to monitor system operation status and provide remote management functions

* The options may be different depending on the specific requirement. Restrictions and limitations may apply. To confirm availability, refer to related user guide or visit H3C website https://www.h3c.com/en/home/htb/.

Product Specification

CPU	2 AMD EPYC 9004 series processors Up to 128 cores per processor, maximum L3 cache 1152MB, maximum power 400W
Memory	Up to 24 DDR5 memory slots, up to 4800MT/s, supporting RDIMM or 3DS RDIMM, memory capacity up to 6TB*
RAID Controller	Optional RAID controller based on standard PCIe slot
Storage	Up to 41* 2.5-inch SATA/SAS hard drives (25 front + 8 mid + 8 rear) Up to 20* 3.5-inch SATA/SAS hard drives (12 front + 4 mid + 4 rear) Up to 28 U.2 NVMe SSDs Up to 2 2280/22110 SATA/NVMe M.2 hard drives
Network	Up to 2 onboard OCP 3.0 NICs + 1 optional OCP 3.0 NIC* Network adapter based on standard PCIe slot
Expansion Slots	Up to 10 PCIe5.0 standard slots
I/O Ports	Front: Left chassis ear (optional): 1 VGA, 1 USB3.0, 1 Type C port. Right chassis ear: 1 USB3.0 Built-in: 1 USB3.0 Rear: 1 VGA, 1 serial port (optional), 2 USB3.0, 1 HDM dedicated network port
GPU	Up to 4 double-width or 10* single-width GPU modules
Management	H3C HDM Standard License, iFIST (embedded), H3C Advanced Feature Package License (optional, requires licenses), H3C UniSystem (requires download) Support LCD touchable intelligent management module
Security	Chassis intrusion detection TCM/TPM security module CPU built-in dedicated security processor
Power Supply	Titanium 1600W/3200W, Platinum 1300W/1600W/2000W/2400W power supply in 1+1 redundancy Hot-swappable redundant fans
Standards	CE，UL，FCC，VCCI，CB, etc.
Operating Temperature	5°C to 40°C (41°F to 104°F)*
Dimensions (H×W×D)	2U height Without a security bezel: 87.5x445.4x780 mm (3.44x17.54x30.7 in) With a security bezel: 87.5x445.4x808 mm (3.44x17.54x31.8 in)

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