H3C UniServer R4950 G7 Server

Diversified Compute Pioneer

Release Date: Mar, 2025

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Highly Efficient Diversified Compute

- 2 AMD EPYC 9005 CPUs

- Up to 384 CPU cores

- Up to 4 double-width GPUs

- xPU supported

Ultra I/O Structure

- 24 DDR5 memory slots

- 6400MT/s memory speed

- 28 U.2 NVMe SSDs

- 10 PCIe 5.0 slots

Multi-layer Security Protection

- Secure Memory Encryption (SME)

- Secure Encrypted Virtualization (SEV)

- TCM/TPM trusted platform module

Product Overview

H3C UniServer R4950 G7 rack server is a new generation of enterprise-class high-performance 2U dual-socket server with AMD EPYC 9005 series processors. It has multiple cores, high I/O bandwidth, and supports multiple GPUs and high-performance network cards. H3C Uniserver R4950 G7 is suitable for powerful workloads and AI applications such as virtualization, database analysis, HPC, AI and machine learning scenarios.

Product Features

For powerful workloads and AI applications

H3C UniServer R4950 G7 supports up to 384 cores per node, a 50% increase over the previous generation, and can meet high-intensity workload requirements. It supports 6400MT/s DDR5 memory, which is a 33% increase over the previous generation, speeding up data transmission between the CPU and memory and shortening computing time. It supports 4 double-width or 8 single-width GPUs and is compatible with DPU smart network cards, using hybrid computing power to improve the parallel computing capabilities of the system and enhance the performance of AI training and reasoning. All 28 U.2 NVMe SSDs are directly connected via PCIe 5.0, which improves the execution efficiency of complex computing tasks with faster data access and processing speeds.

Life cycle management with built-in intelligence

H3C Intelligent Management Center covers the entire life cycle from server deployment, operation and maintenance, diagnosis to retirement, providing five-dimensional intelligent management for data centers. The extremely fast out-of-band operating system installation patented technology and template batch deployment function can increase the efficiency of business launch by 10 times. The newly evolved application tuning template can intelligently identify business loads, match the best configuration, and improve the performance of the entire server by 5%. With the support of AI technology, H3C Intelligent Management Center can achieve a fault diagnosis accuracy rate of up to 96% and effectively reduce unplanned downtime by 40%. H3C Intelligent Management Center effectively improves the experience of server operation and maintenance management, helping data centers reduce costs and increase efficiency.

Product Specification

CPU	2 AMD EPYC 9005 series processors Up to 192 cores per processor, maximum power 500W
Memory	Up to 24 DDR5 memory slots, up to 6400MT/s
RAID Controller	Optional RAID controller based on standard PCIe slot
Storage	Up to 41* 2.5-inch SATA/SAS hard drives Up to 20* 3.5-inch SATA/SAS hard drives 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, supporting Multi-Host Network adapter based on standard PCIe slot InifiBand
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 8 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/2700W power supply in 1+1 redundancy, hot-swappable 4 8056 fans, supporting single rotor failure
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: 87.5x445.4x800 mm (3.44x17.54x31.5 in) With a security bezel: 87.5x445.4x828 mm (3.44x17.54x32.6 in)

*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/.

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