



H3C UniServer R4500 G6

High-Density Storage-Optimized Rack Servers for Data-Intensive Scenarios



Leading storage capacity

- Up to 1.4PB raw capacity
- Up to 60 3.5-inch hard drives within 4U space
- Up to 3 high-performance storage control cards

Excellent computing performance

- 2 x Intel®Xeon®4th/5th Generation Scalable Processors
- 32GB DDR5 5600MT/s memory
- Support enterprise-class GPU, Empower AI scenarios*

Reliable overall system with ingenuity

- Innovative memory reinforcement technology, reduces unexpected downtime by 40%
- Dual-plane independent heat dissipation for computing and storage
- 9 Intensity Seismic Design

Product Overview

With the continuous advancement of enterprise digitization, data has become the most valuable production data of enterprises. Faced with the increasingly growing amount of data, are you troubled by insufficient data storage space or high data storage costs. The new generation of future-oriented storage-optimized server R4500 G6 independently developed by H3C will assist you on your digital transformation journey with its leading storage capabilities and lower unit space purchase costs. H3C UniServer R4500 G6 is based on the Intel Xeon 4th/5th generation scalable processor family, which can achieve up to a 60% increase in core count compared to the 3rd-generation processors. It supports the expansion capability of 60 3.5-inch hard drives in a 4U space, while also supporting high-performance NVMe storage acceleration to meet the comprehensive needs of massive data storage, efficient data processing, and flexible expansion. It can be applied to distributed storage, big data, and backup and archiving scenarios in industries such as Government, Carriers, Internet, and Enterprises.

Product features

End-to-end I/O balancing without bottlenecks

H3C UniServer R4500 G6 supports eight-channel 5600MT/s DDR5 memory technology, delivering up to 1.75 times the memory bandwidth compared to the previous generation; Supports flexible combinations of SATA, SAS, and NVMe, with up to three high-performance storage control cards, fully unleashing storage performance; Supports cache pools composed of NVMe high-speed solid-state drives, providing high-performance I/O even in massive storage scenarios; Through PCIe 5.0 standard expansion slots, it supports Ethernet adapters and InfiniBand cards with speeds of up to 400Gb, providing high-density, high-concurrency data services with flexible and reliable I/O expansion.

Intelligent lifecycle management

H3C Intelligent Management Center covers all aspects from server deployment, operation and maintenance, diagnosis to retirement, providing five-dimensional intelligent management for data centers. The patented technology for ultra-fast out-of-band operating system installation and agile stateless computing function can improve business online and mobility efficiency by 10 times; the newly evolved application tuning template can intelligently identify business loads, match the best configuration, and thereby improve the overall system performance by 5%; with the support of AI technology, H3C server intelligent management engine can achieve up to 95% accuracy in fault diagnosis and effectively reduce 40% unplanned downtime. The convenient and efficient H3C Intelligent Management Center will further enhance the server operation and maintenance experience, helping data centers reduce costs and increase efficiency.

Technical specifications

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	Intel®C741
Memory	32× DDR5 RDIMMs (maximum) with up to 5600 MT/s Data Rate
Storage controller	Standard PCIe HBA Controller or Raid Controller Supports NVMe RAID
FBWC	8 GB Cache Supports Supercapacitor protection
Storage	Supports SAS/SATA/NVMe U.2 60LFF+8SFF/2SFF; optional support for 12SFF and 12 NVMe SSD* Supports 2 M.2 or Micro SD as boot disk
Network	1 × onboard 1 Gbps HDM management Ethernet port 2 × OCP3.0 Ethernet adapter, supporting NCSI function and hot-swap PCIe Standard Slots for 1G/10G/25G/100G/200Gb/400G Ethernet Adapter or 100/200/400Gb InfiniBand card
PCIe slots	Up to 6 x PCIe standard slots (5 × PCIe 5.0, 1 × PCIe 4.0), 2 × OCP3.0 Slots
Ports	Standard 1 VGA connector (optional 2, 1 front, 1 rear) and optional 1 serial port 4 × USB connectors (1 front USB 2.0, 1 internal USB 2.0, 2 rear USB 3.0,), 1 × Type C (HDM dedicated)
Optical drive	External USB optical drive
Management	H3C HDM Standard License, iFIST (embedded), H3C Advanced Feature Package License (optional, requires licenses), H3C UniSystem (requires download) LCD touchable model (Optional) U-Center data center management platform(Optional)
Security	Supports Chassis Intrusion Detection TCM/TPM2.0 Dual-factor authentication
Power supplies	Optional 2 or 4 hot swapping power supplies of 1300/1600/2000/2400W, supporting 1+1 or 2+2 redundancy Standard 5 fans for storage unit, 8 fans for compute unit, Hot swappable N+1 redundant Fans
Standards	CE, UL, FCC, VCCI, CB, etc.
Operating temperature	Operating temperature: 5~40°C (41°F to 104°F) Storage Temperature: -40~70°C (-41°F to 158°F) The maximum operating temperature varies by server configuration. For more information, see the technical documentation for the device

Dimensions (H×W×D)	4U Height Chassis size (Without ears) (length×width×height): 900mm×448mm×174.8mm (35.43 ×17.63×6.88 in)
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- *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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