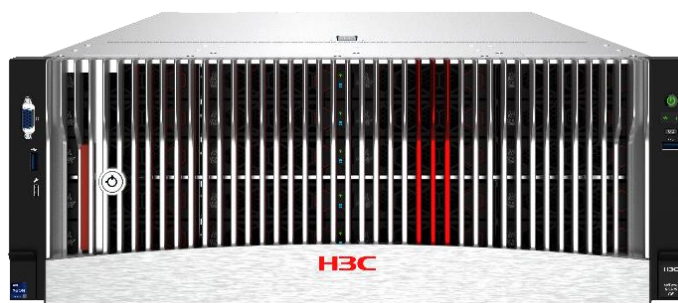




H3C UniServer R5300 G6 Server

Hybrid computing engine



Exceptional performance with hybrid computing power for AI workloads

- Hybrid acceleration architecture seamlessly integrates training and inference capabilities, supporting a wide range of AI accelerators to meet diverse workload requirements.

Flexible topology adapts to various application scenarios

- Seven GPU topologies, flexibly adapting to various customer application scenarios, intelligently allocating resources, and driving efficient computing power operation.

Compute-storage integration delivers a cost-efficient computing engine

- Supports up to 10 double-width GPUs and a massive 400TB storage design, meeting AI data demands for storage space

Product Overview

H3C UniServer R5300 G6, a next-generation 4U dual-processor AI server, is designed to deliver significant upgrades in processor and GPU specifications compared to the previous generation. With outstanding performance, flexible architecture, strong expansion capabilities, and high reliability, this server supports diverse workloads such as deep learning model training, inference, high performance computing, and data analytics. Its integrated computing and storage design simplifies management and deployment, making it a versatile computing engine for the AI era.

Product features

H3C UniServer R5300 G6 supports various types of AI accelerator cards to meet diverse heterogeneous computing demands in AI scenarios. The system supports processor-to-GPU ratios of 1:4 and 1:8, along with various topology configurations such as four-card or eight-card direct connect. Users can flexibly switch configurations based on application models with one-click operations. The system also accommodates diverse AI acceleration cards and smart network adapters to meet different AI scenario requirements.

H3C UniServer R5300 G6 supports two Intel® Xeon® 4th/5th Gen Scalable processors, with up to 64 cores per processor. With the eight-channel 5600MT/s DDR5 memory technology, the system can deliver up to 12TB memory expansion and a 50% bandwidth increase. The I/O supports PCIe 5.0 bandwidth, doubling data bandwidth compared to the previous generation. The R5300 G6 supports up to 24 2.5/3.5-inch drives, including eight NVMe drives, meeting the high memory space demands of AI for massive data processing. The R5300 G6 supports up to 20 PCIe slots, including one dedicated storage controller slot and one OCP 3.0 dedicated network adapter slot. It also accommodates 400GE network adapters to meet the high-speed bandwidth demands of AI applications.

Technical specifications

GPU compute module	8-slot switch module	4-slot direct connect module	8-slot direct connect module	16-slot switch module
GPU support	Supports up to 10 double-width GPUs*	Supports up to 6 double-width GPUs*	Supports up to 10 double-width GPUs*	Supports up to 20 single-width GPUs*
CPU	Supports up to two Intel® Xeon® 4th/5th Gen Scalable processors, with up to 64 cores per processor and a maximum power of 385W			
Memory	Supports up to 32 DDR5 memory slots with a speed up to 5600MT/s Supports RDIMMs and LRDIMMs Provides a maximum capacity of 12TB with dual processors and supports CXL 1.1* and the HBM technology*			
Storage controller	Supports high-performance storage controllers and RAID 0/1/10/5/6/50/60/Tri-Mode*			
PCIe slots	8 double-width PCIe 5.0 x16 slots 4 single-width PCIe 5.0 x16 slots 1 dedicated slot for OCP 3.0 network adapters and 1 dedicated slot for storage controllers	6 double-width PCIe 5.0 x16 slots 1 dedicated slot for OCP 3.0 network adapters 1 dedicated slot for storage controllers	10 double-width PCIe 5.0 x16 slots 1 dedicated slot for OCP 3.0 network adapters and 1 dedicated slot for storage controllers	20 single-width PCIe 4.0 x16 slots 1 dedicated slot for OCP 3.0 network adapters 1 dedicated slot for storage controllers
Front hard drive expansion	System SAS/SATA/NVMe drive configurations: • 24 × 2.5/3.5-inch SAS/SATA/NVMe drives (up to 8 NVMe drives) with 2 onboard M.2 slots • 12 × 2.5/3.5-inch SAS/SATA/NVMe drives (up to 8 NVMe drives) with 2 onboard M.2 slots			
Network	Supports OCP 3.0 network adapters (supports Singlehost/Multihost*) and 1/10/25/50/100/200/400GE PCIe standard network adapters			
Fan	Supports eight 8056 fans with N+1 redundancy and hot swapping			
Management	HDM agentless management tool (with a dedicated management port) and H3C UniSystem Supports an LCD smart management module and 64M local video memory* Supports the U-Center data center management platform			
Security	Supports chassis intrusion detection and dual-factor authentication Supports Intel PFR 3.0 and SGX 2.0 security technologies Supports TCM/TPM security modules			
Ports	Front Panel: 1 x USB 3.0, 1 x USB 2.0, 1 x VGA, 1 x Type-C Debug port Onboard : 1 x USB 2.0 Rear Panel: 2 x USB 3.0, 1 x VGA, 1 x dedicated 1G management port (Optional) 1 management serial port*			
Power supply and cooling	Supports four 2000W/2400W/2700W* Platinum power supplies Supports 3200W Titanium power supplies* Supports N+N redundancy			

Standards	CE, UL, FCC, VCCI, CB, etc.
Operating temperature	5°C to 35°C (41°F to 95°F) (The operating temperature varies by server configuration. For more information, see the product technical documentation.)
Dimensions (H×W×D)	4U chassis (H×W×D) Without security bezel: 174.8 × 447 × 828 mm (6.88 × 17.60 × 32.60 in) With security bezel: 174.8 × 447 × 856 mm (6.88 × 17.60 × 33.70 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/>.



New H3C Technologies Co., Limited
Beijing Headquarters
Tower 1, LSH Center, 8 Guangshun South Street, Chaoyang
District, Beijing, China
Zip: 100102
Hangzhou Headquarters
No.466 Changhe Road, Binjiang District, Hangzhou,
Zhejiang, China
Zip: 310052
Tel: +86-571-86760000
Fax: +86-571-86760001

Copyright ©2025 New H3C Technologies Co., Limited
Reserves all rights Disclaimer: Though H3C strives to
provide accurate information in this document, we cannot
guarantee that details do not contain any technical error
or printing error. Therefore, H3C cannot accept
responsibility for any inaccuracy in this document. H3C
reserves the right for the modification of the contents
herein without prior notification.

<https://www.h3c.com>