H3C UniServer R4700 G7 Server

Density Optimized Forerunner

Release Date: June, 2024

New H3C Technologies Co., Limited

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Density Optimized Forerunner

- 1U Height
- Up to 288 CPU cores
- 4 single–slot GPU

Flexible Expansion

- 32 DDR5 Memory Slots
- 6400MT/s Speed
- 12 U.2 NVME SSD
- 4 PCI-E Standard Slots
- 2 onboard OCP3.0 Slots
- 1 dedicated RAID Mezz slot

Multi-Tier Protection

- Chassis Intrusion Detection
- SGX 2.0
- PFR 4.0
- TPM 2.0
- HDM Two–factor Authorization

Product Overview

H3C UniServer R4700 G7 server is 1U 2–Socket Rack Server based on Intel's new generation Birch Stream platform. It can meet customers' higher requirements for deployment space and economy.While taking into account computing performance and scalability, it has better space optimization and is easy to deploy.

R4700 G7 server can be widely used in general computing scenarios, including databases, virtualization, cloud desktops and other scenarios. It is suitable for typical applications in multiple industries such as the Internet, enterprises, and finance.

As a self-developed high-performance 1U 2–Socket Rack Server, H3C UniServer R4700 G7 is based on Intel® Xeon® 6 Processors, with up to 6400MT/s DDR5 memory, providing users with the ultimate computing performance improvement. Through the support of GPU accelerator cards and NVMe solid-state drives, it provides ultra-high computing performance and I/O acceleration.

R4700 G7 is optimized for scenarios:

- • High-density data center workloads - such as data center workloads of large and medium-sized enterprises and cloud service providers;
- • Dynamic workloads - such as databases, virtualization, private clouds and public clouds
- • Computation-intensive applications - such as big data, business intelligence, geological exploration and research
- • Low-latency and transaction applications - such as query and transaction systems in the financial services industry
- H3C UniServer R4700 G7 server can support Microsoft® Windows® and Linux OS, as well as VMware and H3C CAS virtualization software.

Detailed Specification

CPU	2 Intel® Xeon® 6 Processors 144 Cores for each Processor and 330W power consumption
Memory	32 DDR5 RDIMM Slots, 6400 MT/s Data Rate, 8TB on 2 CPU Configuration with 256G DDR5 RDIMM
Raid Controller	Dedicated Mezz / Standard PCIe HBA Controller or Raid Controller
FBWC	8 GB Cache, support Supercapacitor protection
Storage	Front 10SFF bays, Rear 2SFF bays Front 4LFF bays SAS/SATA HDD/SSD Drives,12 U.2 NVMe Drives SATA/NVMe M.2 Kit, DSD module (2xSD card kit)
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 1/10/25/100GE Ethernet Adapter, IB card
Expansion Slots	4 PCIe Standard Slots, 2 Onboard OCP 3.0 Slots and 1 Dedicated Mezz Slot Up to 6 PCIe5.0 and 1 PCIe4.0 Slots CXL2.0
Ports	Standard: 2 VGA Port (1 Front, 1 Rear), 4 USB Ports (1 Front, 2 Rear, 1 Internal), 1 Front Type-C port Optional: 1 Rear Management Port
GPU	4 Single-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 and PFR4.0
Power supply	1+1 Redundancy power supply Platinum 800W/1300W/1600W/2000W Optional Titanium power supply DC power supply 8 Hot swappable Redundant Fans
Standards	CE，UL etc.
Operating temperature	5°C to 45°C (41°F to 113°F) *
Dimensions (H×W×D)	1U Height Without a security bezel: 42.9 x434.6x777mm (1.68x17.11x30.59 in) With a security bezel: 42.9x434.6x805mm (1.68x17.11x31.7 in)

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

The Leader in Digital Solutions

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