

R925A 2U AMD Dual-Socket Rack Server

The R925A is a brand-new enterprise-grade high-performance 2U rack server built on AMD 4th/5th Generation EPYC processors. It adopts an innovative design philosophy with optimized system architecture and supports high-density expandable GPU accelerator cards, making it ideal for application scenarios including machine learning, AI inference and cloud computing.



*Meet high-performance
computing requirements*

Specifications

Model	R925A
Processor	Supports 2*4th/5th Generation AMD EPYC processors, with up to 192 cores per single CPU.
Memory	Up to 24*DDR5 memory slots, supporting a maximum memory frequency of 6400 MT/s and CXL 2.0.
GPU	Supports up to 4 double-width GPUs or 8 single-width GPUs.
Storage Controller	Integrated SATA storage controller. Configurable RAID card supporting RAID 0/1/10/5/50/6/60. Supports supercapacitor cache protection.
Local Storage	Front drive bays: Up to 12*3.5-inch / 2.5-inch SAS/SATA/NVMe drives Front drive bays: Up to 24*2.5-inch SAS/SATA/NVMe drives Rear drive bays: 4*3.5-inch / 2.5-inch SAS/SATA drives + 4*2.5-inch SAS/SATA/NVMe drives 2*onboard M.2 SSD slots are available.
Network Interfaces	Supports up to 2*OCP network adapters, compatible with Multi-Host OCP 3.0 network cards.
PCIe Expansion	Air-cooled configuration: Up to 12*PCIe 5.0 expansion slots (including 1 dedicated slot for storage adapter cards) Liquid-cooled configuration: Up to 11*PCIe 5.0 expansion slots (including 1 dedicated slot for storage adapter cards)
Additional Interfaces	2*VGA ports (1*on the front panel, 1*on the rear panel) 5*USB ports: 2*on the front panel, 2*on the rear panel, 1*internal Type-A USB expansion port 1 RJ45 management port on the rear panel

Power Supply	800W / 1300W / 2000W / 2200W CRPS power supplies, supporting 1+1 redundant configuration.
Fans	6 hot-swappable fan modules
Management	Integrated BMC with 1Gbps RJ-45 port.
OS Support	Microsoft Windows Server、Red Hat Enterprise Linux、SUSE Linux、Enterprise Server、CentOS、VMware ESXi、Ubuntu
Operating Temperature	Liquid cooling: Minimum supply water temperature shall be 3°C above the dew point; Maximum supply water temperature: 45°C Air cooling: Ambient operating temperature range: 5°C ~ 40°C
Chassis Dimensions	87mm (H) × 446mm (W) × 770mm (D)

Product Features

Innovative Architecture Delivers Outstanding Performance

Supports up to 384 physical cores with hyper-threading. Compatible with two generations of processors without hardware replacement to enable seamless upgrades, effectively cutting operation and maintenance costs. Full PCIe Gen5 support with up to 12 native PCIe slots, fully upgrading performance of high-speed storage and network clusters. Accommodates up to 4 double-width GPU cards to accelerate AI training and inference workloads.

Energy-Saving, Low-Noise & Eco-Friendly

Liquid cooling maintains CPU core temperature below 65°C, breaking thermal bottlenecks to unlock full performance potential. Supports 45°C supply water temperature; high-temperature liquid cooling eliminates extra cooling via cooling towers and effectively reduces data center power consumption. Cold plate liquid cooling is deployed for high-power core components, cutting system fan power consumption by 3% to lower overall PUE and TCO.

Secure, Reliable & Intelligent O&M

Supports remote batch firmware upgrades for the system and all components, real-time component monitoring and precise fault reporting, enabling remote cluster deployment and upgrade management to improve operation efficiency.

Equipped with liquid leakage detection monitored in real time by BMC; detection precision reaches 0.05ml with an alarm triggered within 1 second.

Drip-free quick-disconnect fittings for cold plates enable fast connection, plug-and-play operation with safe and convenient installation.