



All-round AI server R920 Z50M

Product Description

R920 Z50M is a 2U dual-socket high-density rack server equipped with Intel® Xeon® fourth-generation & fifth-generation scalable processors. Resources can be flexibly configured based on service requirements to meet application requirements of various industries. Perfect for machine learning, AI inference, cloud computing, high-performance computing, cloud storage, big data, virtualization, office system and other application scenarios.

Key Features and Highlights

Extreme Performance and Flexible Expansion

- Supports 2 Intel® Xeon® fourth-generation or fifth-generation scalable processors, up to 64 cores in a single CPU, with powerful computing performance
- Supports 32 DDR5 memories with the frequency of 5600MHz, an increase of 75% in memory bandwidth
- Supports up to 12*3.5-inch hard drives, compatible with NVMe SSD, enables personalized selection of storage resources
- Supports flexible expansion of OCP network card and PCI-E card, so as to configure network resources on demand; fully supports PCIe 5.0 protocol, an increase of 100% in transmission rate

Simple Operation & Maintenance and Intelligent Management

- The tool-free maintenance design realizes quick assembly and disassembly of peripheral components, greatly shortening operation and maintenance time
- Out-of-band visual management enables accurate location information of physical equipment remotely, further optimizing operation and maintenance efficiency
- Automatically records downtime, and supports online viewing and download of downtime logs, so as to accurately locate faults
- Provides the health status monitoring and reporting function for key components to realize the intelligent service throughout the product whole life cycle

High Efficiency and Energy Saving, Extremely Cool and Quiet

- New structural design, with an increase of 15% in air intake area, and an increase of 8% in heat dissipation performance
- Double state triple speed regulation mechanism, the heat dissipation of the whole machine can be dynamically adjusted according to the environment temperature and the real condition of the load, so as to achieve the effect of green energy saving
- With exclusively customized fans, the air volume is increased by 30%, the power consumption is reduced by 15%, noise is reduced by 10%, air cooling can also be cold and quiet





Product Specifications

Processor	Supports 2 fourth-generation or fifth-generation Intel® Xeon® scalable processors TDP, up to 385W
Memory	32 DDR5 memory slots, up to 5600MHz; supports memory ECC, memory mirroring, memory hot backup and other protection modes; supports additional expansion of 16 memory slots through CXL Supports up to 16 Intel® Optane® Persistent Memory PMem 300 Series
Storage Controller	Supports multiple storage solutions such as pass-through, RAID0, 1, 10, 5, 50, 6, 60. When configuring the RAID controller, it can support Cache supercapacitor protection, provide functions such as RAID level migration, disk roaming, self-diagnosis, and Web remote setting, and support safe startup of RAID card
Storage Options	Front: Supports up to 12*3.5-inch hard drives, compatible with NVMe hard drives Built-in: 2 SATA/PCIe M.2, 1 onboard EMMC chip
Network Interfaces	Network card: 1 OCP 3.0, with NCSI function OCP 3.0 can be equipped with multiple interfaces such as 2*1GE, 2*10GE, 2*25GE, 2*100GE, and 2*200GE
PCIe Expansion	Supports up to 9 PCIe 5.0 expansion slots, including 1 OCP slot Supports up to dual width GPU*4
I/O Interfaces	Rear of the chassis: 1 RJ45 management interface, 2 USB 3.0 interfaces, 1 VGA interface Front of the chassis: 2 USB3.0+VGA or USB2.0 optional Inside the chassis: 1 built-in USB 3.0 interface
Power Supply	Optional 2000W/2200W/2700W CRPS high-efficiency platinum hot-swappable power supply, supporting 1+1 redundancy, voltage range 100-240Vac (please refer to the power input value on the host nameplate label)
Cooling	6 hot-swappable fan modules; supports N+2 redundancy
Management & Monitoring	Integrated with BMC chip, a 1Gbps RJ45 management port externally is provided, and supports Redfish, SNMP, IPMI 2.0 and other standard interfaces; based on the IKVM/HTML5 remote management interface, it provides functions such as comprehensive fault diagnosis, automatic operation and maintenance, and remote management, and supports dual Flash redundant backup of BMC
Supported Operating Systems	Microsoft Windows Server, RedHat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Ubuntu, VMware ESXi, Kylin, Redflag, etc.
Operating Temperature	5° C ~ 35° C
Chassis Dimensions	770mm(length)*446mm(width) (excluding lugs)*87mm(height) 770mm(length)*482mm(width) (including lugs)*87mm(height)

Ordering List

Part Number	Product Configuration		
	Front	Rear	Kits
N08000 A300	8*3.5" (SAS/SATA/NVME) 2*USB3.0+1*VGA	<ul style="list-style-type: none">➤ 4 GPU chassis, 1*x16 PCIe 5.0➤ 1*RJ45 management➤ 2*USB3.0➤ 1*VGA➤ 2000W redundant power supplies	<ul style="list-style-type: none">➤ A30, A40 series GPU installation module➤ 2*heat sinks➤ 1*raid cable applicable for 95 series of raid cards➤ 8*3.5" hard drive brackets, compatible with 2.5" drives.
N08000 L40S			<ul style="list-style-type: none">➤ H800, L40, L40S, L20 series GPU installation module➤ 2*heat sinks➤ 1*raid cable applicable for 95 series raid cards➤ 8*3.5" hard drive brackets, compatible with 2.5" drives.