High Density Storage Server R840 Z50M

Product Description

The R840 Z50M is a fourth generation Intel based device ® Xeon ® Scalable High end 4U rack mounted high-density storage server with processor, capable of massive storage Space, with excellent computing performance and diverse IO expansion capabilities, lightweight
To meet the demanding application requirements of large capacity, strong performance, scalability, and high reliability,
To safeguard the stable operation of critical businesses.

Key Features and Highlights

Ultimate performance, flexible expansion

- Ultimate Performance Flexible Scalability Supports 4th/5th Generation Intel Chips ® Xeon ® Scalable processor, with a maximum of 64 cores per CPU, providing powerful computing performance
- Supports up to 32*DDR5 memories, with a maximum frequency of 5600MHz and a 75% increase in memory bandwidth
- Supports 40*3.5-inch and 4*2.5-inch hard drives, compatible with NVMe SSD, storage media supports high-capacity SATA, and provides ultra large capacity local storage expansion capability
- Flexibly expand OCP network cards and PCIe cards, configure network resources as needed, fully support PCIe 5.0 protocol, and increase transmission speed by 100%

Minimalist operation and maintenance intelligent management

- Tool free maintenance design, quick disassembly and assembly of peripheral components, greatly reducing operation and maintenance time
- Out of band visual management enables remote and precise positioning of physical device location information, further optimizing operation and maintenance efficiency
- Automatic recording of downtime, supporting online viewing and downloading of downtime logs, accurately locating faults
- Provide health status monitoring and reporting functions for key components to achieve intelligent services throughout the product lifecycle

Extremely calm, green and energy-saving

- New structural design, with a 15% increase in air intake area and an 8% improvement in heat dissipation performance
- The dual state triple speed regulation mechanism dynamically adjusts the heat dissipation of the entire machine based on the ambient temperature and the actual load conditions, achieving a green and energy-saving effect

Product Specifications

Processor	Supports 2*4th/5th Gen Intel® Xeon® Scalable Processors.
Memory	32*DDR5 slots, up to 5600MHz. Supports memory mirroring, hot spare, fault isolation, and CXL expansion (additional 16 slots).
Storage Controller	Supports RAID 0/1/10/5/50/6/60. RAID controller features cache supercapacitor protection, disk roaming, remote Web configuration, and secure boot.
Local Storage	Max 40*3.5″ and 4*2.5″ hot-swappable drives (NVMe compatible). Internal: 2*SATA/PCIe M.2, 1*onboard EMMC.
Network Interfaces	1*OCP 3.0 slot with NCSI. Optional OCP 3.0 interfaces: 2*1GE, 2*10GE, 2*25GE, 2*100GE, 2*200GE.
PCIe Expansion	8*PCIe 5.0 slots + 1*OCP slot.
Additional Interfaces	Rear: 1*RJ-45 management port, 2*USB 3.0, 1*VGA. Front: 2*USB 3.0+1*VGA.
Power Supply	800W/1300W/2000W/2200W CRPS Platinum PSU (hot-swappable, 1+1 redundant). Voltage: 100~240Vac (refer to nameplate).
Fans	4*hot-swappable fans .
Management	Integrated BMC with 1Gbps RJ-45 port. Supports Redfish, SNMP, IPMI 2.0, HTML5/iKVM remote control. BMC dual-flash backup.
OS Support	Windows Server, RHEL, SLES, CentOS, Ubuntu, VMware ESXi, Kylin, RedFlag, etc.
Operating Temperature	5°C ~ 45°C
Chassis Dimensions	798mm (L)*446mm (W)*175.5mm (H).
Packaging Dimensions	1050mm (L)*650mm (W)*480mm (H)
Weight	Max 58kg (varies by configuration).

Ordering List

Part Number	Product Configuration		
	Front	Rear	Kits
A24000 ABNN	24*3.5" (SAS/SATA) 2*USB3.0+1*VGA	➢ 4*x8+2*x16 PCIE 5.0 ➢ 1*RJ45 management ➢ 2*USB3.0 ➢ 1*VGA 1300W redundant power supplies	➢ 2*heat sinks, TDP≥270W 2*raid card cable applicable for 95 series of raid cards 24*3.5" hard drive brackets
A24000 ABN2	24*3.5" (SAS/SATA) 2*USB3.0+1*VGA	➢ 2*2.5" (SAS/SATA) ➢ 4*x8+2*x16 PCIE 5.0 ➢ 1*RJ45 management ➢ 2*USB3.0 ➢ 1*VGA 1300W redundant power supplies	➢ 2*heat sinks, TDP≥270W 2*raid card cable applicable for 95 series of raid cards 24*3.5" hard drive brackets, compatible with 2.5" drives. 2*2.5" hard drive brackets
A24000 AB22	24*3.5" (SAS/SATA) 2*USB3.0+1*VGA	➢ 4*2.5" (SAS/SATA/NVME), 4*x8+2*x16 PCIE 5.0 ➢ 1*RJ45 management ➢ 2*USB3.0 ➢ 1*VGA 1300W redundant power supplies	➢ 2*heat sinks, TDP≥270W 2*raid card cable applicable for 95 series of raid cards 24*3.5" hard drive brackets, compatible with 2.5" drives. 4*2.5" hard drive brackets