



Dual-Socket Rack Server R810 Z50M

Product Description

The R810 Z50M is a 1U dual-socket high-density rack server equipped with 4th/5th Gen Intel® Xeon® Scalable processors. It integrates performance, density, and scalability to double data center computing density and space utilization, significantly reducing operational costs. Ideal for cloud computing and data processing scenarios.

Key Features and Highlights

Extreme Performance with Ultra-High Density

- 1U Height, Double Computing Power per Unit of Space
- Supports 2*4th/5th Gen Intel® Xeon® Scalable processors, with up to 64 cores per CPU for robust performance.
- Up to 32*DDR5 DIMM slots, 5600MHz max frequency, 75% memory bandwidth increase.
- Flexible expansion with OCP NICs and PCIe slots (supports PCIe 5.0, 100% faster transfer rates).

Simplified Operations and Intelligent Management

- Tool-Free Maintenance Design: Quick installation/removal of peripherals, minimizing downtime.
- Out-of-Band Visual Management: Remote physical device tracking for optimized efficiency.
- Automatic Logging: Real-time log viewing/download for precise fault diagnosis.
- Health Monitoring: Proactive status reporting for key components, enabling full lifecycle management.

Energy Efficiency and Advanced Cooling

- Open Management Platform: Supports RedFish, IPMI, SNMP, and other protocols.
- Triple-Speed Dynamic Cooling: Adjusts fan speeds based on temperature and workload for optimal energy savings.





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 4*3.5" or 10*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	2*PCIe 5.0 slots + 1*OCP 3.0 slot.
Additional Interfaces	Rear: 1*RJ-45 management port, 2*USB 3.0, 1*VGA. Front: 2*USB 3.0. Internal: 1*USB 3.0.
Power Supply	1300W/2000W/2200W CRPS Platinum PSU (hot-swappable, 1+1 redundant). Voltage: 100~240Vac (refer to nameplate).
Fans	8*hot-swappable fans (N+1 redundancy).
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	796mm (L)*435mm (W)*43mm (H).
Packaging Dimensions	1000mm (L)*600mm (W)*250mm (H)。
Weight	Max 25kg (varies by configuration).

Ordering information

Part Number	Product Configuration		
	Front Configuration	Rear Configuration	Kits
A04000 ABNN	4*3.5 " drives (SAS/SATA) 2*USB 3.0	➤ 2*PCIe 5.0 x16 Slots ➤ 1*RJ-45 Management interface ➤ 2*USB 3.0 interface ➤ 1*VGA ➤ 1300W Redundant Power	➤ 2*Heat Sinks, TDP≥270W ➤ 1*raid card connection cable, Adapted to 95 series RAID cards ➤ 4*3.5 hard drive brackets, Compatible with 2.5" drives
S10000 ABNN	10*2.5" drives (SAS/SATA) 2*USB 3.0	➤ 2*PCIe 5.0 x16 Slots ➤ 1*RJ-45 Management interface ➤ 2*USB 3.0 Interface ➤ 1*VGA ➤ 1300W Redundant Power	➤ 2* Heat Sinks, TDP≥270W ➤ 1*raid card connection cable, Adapted to 95 series RAID cards ➤ 10*2.5 hard drive brackets, Compatible with 2.5" drives