



Product Description

The R810 E50M 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.

Dual-Socket Rack Server R810 E50M

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