FusionServer

2488H V7 Rack Server

Delivering Excellent Performance and Scalability to
Enable Fast Stable Mission-Critical Services

Rack Server
FusionServer 2488H V7

| 2488H V7 (8 drives) | 2488H V7 (12 drives) | 2488H V7 (25 drives) |

FusionServer 2488H V7 (2488H V7) is a 2U 4-socket rack server designed for the Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for various applications, such as databases, virtualization, and in-memory computing. The 2488H V7 features high-performance computing, large-capacity storage, low power consumption, high reliability, easy management and deployment, and high virtualization application density.

Highlights

High Efficiency, Stability, and Scalability

- 4 x 4th Gen Intel® Xeon® Scalable processors in 2U space, up to 60 x cores and 120 x threads per processor, with TDP up to 350 W
- Up to 64 x DDR5 DIMMs, delivering up to 16 TB total memory capacity (calculated based on a maximum of 256 GB capacity per DDR5 memory module) and featuring high speed and availability
- Up to 25 x 2.5" drives
- Up to 8 x 2.5" NVMe SSDs, improving storage density and I/O performance
- Up to 9 x standard expansion slots
- 1 x GE/10GE/25GE/100GE OCP 3.0 NIC that supports orderly hot swap

High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere

Efficient Energy Saving

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with the industry average
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic load adjustment: The CPU working frequency is dynamically adjusted based on the actual service load

Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

⊟ Technical Specifications

Form Factor	2U rack server
Processor	2 or 4 x 4th Gen Intel® Xeon® Scalable processors with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	64 x DDR5 DIMMs
Local Storage	Hot-swappable drives configurations: - 8 x front 2.5" SAS/SATA drives - 25 x front 2.5" SAS/SATA drives - 4 x front 2.5" SAS/SATA drives and 8 x NVMe SSDs Flash storage:2 x M.2 SSDs, supporting hardware RAID
RAID	RAID 0, 1, 10, 1E, 5, 50, 6, or 60; supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	Multiple network expansion capabilities 1 x OCP 3.0 NIC, supporting hot swap
PCIe Expansion	Up to 10 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC and 9 x standard PCIe slots
Fan Module	6 x hot-swappable counter-rotating fans in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
Management	The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. - The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM; supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management - It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	Chassis with 2.5" drives: 86.1 mm x 447 mm x 898 mm (3.39 in. x 17.60 in. x 35.35 in.)