FusionServer

# 2288H V7 Rack Server

Robust Performance, High Reliability and Security,
Efficient Energy Saving, and Intelligent O&M



xFusion Digital Technologies Co., Ltd.

# Rack Server
# FusionServer 2288H V7

## Introduction



2288H V7 (8 drives) | 2288H V7 (12 drives) | 2288H V7 (24 drives) | 2288H V7 (25 drives)

FusionServer 2288H V7 (2288H V7) is a new-generation 2U 2-socket rack server designed for SDS, VDI, CDN, virtualization, big data, database, cloud scenarios, accelerated computing inference, small enterprises, OA, and web applications, meeting requirements of enterprise or telecom service applications and other complex workloads. The 2288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

## Highlights

### Robust Performance

- 4th or 5th Gen Intel® Xeon® Scalable processors with 385 W TDP per processor, and 32 x DDR5 DIMMs, providing 50% better overall performance
- PCIe 5.0 protocol and 17 x standard PCIe slots ensure flexible configuration, allowing 100% higher PCIe bandwidth for high-speed interconnection
- High-speed flash memory and diverse configurations: (1) 34 x NVMe U.2 SSDs, high-speed flash for high performance; (2) 36 x E1.S SSDs, smaller size, higher density; (3) 45 x SAS/SATA SSDs, more slots, more cost-effective

### 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** | 1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with TDP up to 385 W per processor |
| **Chipset** | Emmitsburg PCH |
| **Memory** | 32 x 5600 MT/s DDR5 DIMMs and 16 x DDR5 or DDR4 DIMMs supported by the CXL technology; up to 48 x DIMMs* |
| **Local Storage** | Hot-swappable drives configurations:<br>- 8 to 35 x 2.5" SAS/SATA drives/SSDs (up to 45 x 2.5" drives or 34 x NVMe SSDs)<br>- 12 to 20 x 3.5" SAS/SATA drives<br>- 4/8/16/24 x NVMe SSDs<br>- 36 x E1.S drives*<br>Flash storage: 2 x M.2 SSDs, hardware RAID, and hot swap |
| **RAID** | RAID 0, 1, 10, 1E, 5, 50, 6, or 60; supercapacitors for cache data protection from power failures;<br>RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration |
| **Network** | Multiple network expansion capabilities; 2 x FlexIO card slots dedicated for OCP 3.0 NICs, which can be configured as required; supporting hot swap and PCIe 5.0 |
| **PCIe Expansion** | Up to 19 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 17 x standard PCIe slots, 14 slots of which support PCIe 5.0 |
| **GPU Card** | 4 x dual-width or 14 x single-width GPU cards |
| **Fan Module** | 4 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.<br>- 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<br>- 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, CentOS, Oracle, Ubuntu, Debian, and openEuler |
| **Security** | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel,<br>secure boot, and chassis intrusion detection |
| **Operating Temperature** | 5°C to 50°C (41°F to 122°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 3.5" drives: 86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)<br>Chassis with 2.5" drives: 86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.) |

*According to the plan, it will be realized within 2024

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