

FusionServer 2288H V7 Rack Server

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



Introduction



2288H V7 (8 drives)



2288H V7 (12 drives)



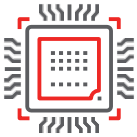
2288H V7 (24 drives)



2288H V7 (25 drives)

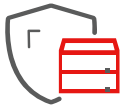
The FusionServer 2288H V7 (2288H V7) is a new-generation 2U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 2288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Features



Robust Performance

- Up to 350 W CPUs and 32 x DDR5 DIMMs provide strong computing power, based on Intel's latest Sapphire Rapids CPU, Up to 50% Better Overall Performance, Supports memory expansion via CXL with up to 48 x DIMM slots.
- PCIe 5.0 protocol and 17 x standard PCIe slots ensure flexible configuration, 100% Higher PCIe Bandwidth for High-Speed Interconnection
- High-Speed Flash Memory, Diverse Configurations:①34 x NVMe U.2 SSDs,High-speed flash for high performance; ②36 x E1.s or 48 x E3.s SSDs,Smaller size, higher density;③45 x SAS/SATA SSDs,More slots, more cost-effective



High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative 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

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than 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: Dynamically adjusts the CPU working frequency 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.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4rd Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	32 DDR5 DIMMs, with up to 4800 MT/s speed. Supports memory expansion via CXL with up to 16 x DDR5 or DDR4 DIMM slots; up to 48 x DIMM slots*
Local Storage	Hot-swappable drives with the following configuration options are supported: <ul style="list-style-type: none"> • 8 to 31 x 2.5" SAS/SATA/SSD drives • 12 to 20 x 3.5" SAS/SATA drives • 4/8/16/24 x NVMe SSDs • 36 x E1.s SSDs or 48 x E3.s SSDs • Up to 45 x 2.5" drives, or 34 x full NVMe SSDs • 2 x M.2 SSDs
RAID	RAID 0, 1, 10, 1E, 5, 50, 6, or 60; optional supercapacitor for cache data power failure protection, RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration.
Network	Expansion capability of multiple types of networks. OCP 3.0 NICs are supported. Both two FlexIO card slots support two OCP 3.0 NICs, which can be configured as required. Hot swap is supported.
PCIe Expansion	Up to 19 x PCIe slots: 2 x FlexIO slots dedicated for OCP 3.0 NICs and 17 x standard PCIe expansion slots, 14 slots support PCIe 5.0
GPU Card	4 x double-width GPU accelerator cards or 14 x single-width GPU accelerator cards
Fan Module	4 x hot-swappable counter-rotating fans in N+1 redundancy
Power Supply	2 x hot-swappable PSUs in 1+1 redundancy mode. Supported options include: <ul style="list-style-type: none"> • 900 W AC Platinum/Titanium PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC) • 1500 W AC Platinum PSUs <ul style="list-style-type: none"> 1000 W (input: 100 V to 127 V AC) 1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC) • 1500 W 380 V HVDC PSUs (input: 260 V to 400 V DC) • 1200 W -48 V to -60 V DC PSUs (input: -38.4 V to -72 V DC) • 3000 W AC Titanium PSUs <ul style="list-style-type: none"> 2500 W (input: 200 V to 220 V AC) 2900 W (input: 220 V to 230 V AC) 3000 W (input: 230 to 240 V AC) • 2000 W AC Platinum PSU <ul style="list-style-type: none"> 1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC) 2000 W (input: 220 V to 240 V AC, or 200 V to 288 V DC)
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. <ul style="list-style-type: none"> • The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management interface based on HTML5/VNC KVM, and 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 and realizes intelligent, automated, 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 panel, secure boot, and chassis cover opening detection
Operating Temperature	5°C to 50°C (41°F to 122°F), compliant with ASHRAE Classes A1, A2, A3, and 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.) 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.)

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