

FusionServer 1288H V7 Rack Server

High-Density Computing Power, High Reliability and Security,
Efficient Energy Saving, Intelligent O&M





1288H V7 (4 drives)

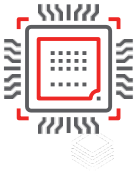


1288H V7 (8 drives)



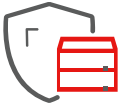
1288H V7 (10 drives)

FusionServer 1288H V7 (1288H V7) is a new-generation 1U 2-socket rack server designed for Internet, Internet Data Center (IDC), cloud computing, enterprise applications, and telecom applications. It is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 1288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.



High-Density Computing Power

- High-Density Computing Power, 1U space accommodates 2 x 350 W CPUs and 32 x DDR5 DIMMs.
- Faster Connectivity for Faster Applications, PCIe 5.0 and 400 Gbit/s NIC interconnection are supported.
- High-Speed Flash, Doubling the Performance, 32 x E1.s or 20 x E3.s SSDs provide smaller size and higher density.



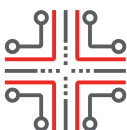
High Reliability and Security

- 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	1U 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 x DDR5 DIMMs, with up to 4800 MT/s speed
Local Storage	<p>Supports hot-swappable drives in the following configurations:</p> <ul style="list-style-type: none"> • 10 x 2.5" drives (6–10 NVMe SSDs and 0–4 SAS/SATA drives, with a total number of 10 or less) • 10 x 2.5" SAS/SATA drives/SSDs (2–4 NVMe SSDs and 6–8 SAS/SATA drives, with a total number of 10 or less) • 10 x 2.5" SAS/SATA drives/SSDs • 8 x 2.5" SAS/SATA drives/SSDs • 4 x 3.5" SAS/SATA drives/SSDs • 32 x E1.s SSDs • 20 x E3.s SSDs* • 2 x M.2 SSDs
RAID	Provides RAID 0, 1, 10, 1E, 5, 50, 6, 60; supports optional supercapacitor for cache data power failure protection, RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration.
Network	Provides expansion capability of multiple types of networks. Supports OCP 3.0 NICs. The two FlexIO card slots support two OCP 3.0 NICs, which can be configured as required. Hot swap and PCIe 5.0 is supported.
PCIe Expansion	Provides 5 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 3 x PCIe slots, and 2 slots support PCIe 5.0
Fan Module	Provides 8 x hot-swappable counter-rotating fan modules in N+1 redundancy.
Power Supply	<p>2 x hot-swappable PSUs in 1+1 redundancy mode. Supported options include:</p> <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 • 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) • 2000 W AC Platinum PSUs • 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	<p>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.</p> <ul style="list-style-type: none"> • 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 and realizes intelligent, automated, visualized, and refined management through the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, 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)	<p>Chassis with 3.5" drives: 43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)</p> <p>Chassis with 2.5" drives: 43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)</p>

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