FusionServer

1288H V7 Rack Server

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

xFusion Digital Technologies Co., Ltd.

Rack Server
FusionServer 1288H V7

Introduction

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 the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for IT core services, virtualization, scientific computing, distributed storage, and other complex workloads. The 1288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights

High-Density Computing Power

- High-density computing power: 2 x 350 W CPUs and 32 x DDR5 DIMMs in 1U space
- Faster connectivity for faster applications: PCIe 5.0 and 400 Gbit/s NIC interconnection
- High-speed flash and doubled performance: 32 x E1.S SSDs with higher density in the smaller size

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	1U rack server
Processor	1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors 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	Hot-swappable drive configurations: - 8 to 10 x 2.5" SAS/SATA drives/SSDs (2/4/6/8/10 x NVMe SSDs, up to 10 x drives) - 4 x 3.5" SAS/SATA drives/SSDs - Up to 32 x E1.S drives* Flash storage: dual M.2 SSDs
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; 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	5 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 3 x PCIe slots, and 2 slots supporting PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	2 x hot-swappable Platinum/Titanium PSUs in 1+1 redundancy - 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 850 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/Titanium 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) 2150 W Titanium PSUs (input: 230 V to 240 V AC, or 230 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. - 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, CentOS, Oracle, Ubuntu, Debian, 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 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: 43mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.) Chassis with 2.5" drives: 43mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.)

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

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