FusionServer

2258H V7 Rack Server

Robust Performance, Solid Reliability and Security,
Optimum High Efficiency and Energy Saving, and Intelligent O&M

XFUSION INTERNATIONAL PTE. LTD.

Rack Server
FusionServer 2258H V7

Introduction

2258H V7 (8 drives)

2258H V7 (12 drives)

FusionServer 2258H V7 (2258H V7) is a new-generation 2U 2-socket rack server designed for SDS, VDI, CDN,virtualization, big data, DB, cloud scenarios, AI inference, small enterprises, OA, and web applications, meeting requirements of enterprise or telecom service applications and other complex workloads. The 2258H V7 features low power consumption, solid scalability and reliability, easy deployment, and simplified management.

Highlights

Robust Performance

- 2 x 4th Gen AMD EPYCTM 9004 Series processors (Genoa) at up to 400 W TDP and 24 x DDR5 DIMMs
- PCIe 5.0 protocol for more flexible configurations, improving the PCIe bandwidth by 100% and realizing high- speed interconnection
- High-speed flash and diverse configurations: 12 x SAS/SATA and 4 x NVMe U.2 SSDs for high-speed flash and super performance
- 16 x DDR4/DDR5 DIMMs supported by CXL 1.1
- 4 x dual-width GPU cards

Solid Reliability and Security

- Heat pipe remote heat dissipation technology, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability of a single heat sink by 50%
- Automatically collect fault information when the CPU crashes to support quick fault location
- RoT-based secure boot, ensuring all-round security

Optimum Efficiency and 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
- Three core power supply technologies used to improve supply power and efficiency and enable the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic CPU clock speed adjustment based on actual service loads

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4th Gen AMD EPYC™ 9004 Series processors (Genoa) with up to 400 W TDP per processor
Memory	12 or 24 x 4800 MT/s DDR5 DIMMs and 16 x DDR4/DDR5 DIMMs supported by CXL 1.1
Local storage	Hot-swappable and flexible drive configurations: • 8 x 2.5" SAS/SATA drives •12 x 3.5" SAS/SATA drives (including 4 x NVMe drives) Flash storage: • 2 x M.2 SSDs (SATA/NVMe)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitor for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0
PCIe Expansion	1 x FlexIO slot dedicated for an OCP 3.0 NIC; up to 5 x full-height PCIe slots and 4 x dual-width PCIe 5.0 slots
GPU Card	4 x dual-width GPU cards
CXL Expansion	4 x CXL 1.1 cards, with memory expansion up to 16 x DDR5 DIMMs; up to 16 x DDR4 DIMMs*
Fan Module	4 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W Platinum/Titanium hot-swappable power supply, 1500W Platinum power supply, 3000W Titanium power supply, 2000W Platinum power supply, supports 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 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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle.
OS	xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu
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 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)