

FusionServer
2258 V7 Rack Server

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



Rack Server

FusionServer 2258 V7

Introduction



2258 V7 (8 drives)



2258 V7 (12 drives)



2258 V7 (16 drives)



2258 V7 (24 drives)

FusionServer 2258 V7 (2258 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 2258 V7 features robust performance, solid scalability and reliability, easy deployment, and simplified management.

Highlights



Robust Performance

- 2 x 4th Gen AMD EPYC™ 9004 Series processors (Genoa) at up to 400 W TDP and 24 x DDR5 DIMMs
- PCIe 5.0 protocol and 8 x full-height standard PCIe expansion slots for more flexible configuration, improving the PCIe bandwidth by 100% and realizing high-speed interconnection
- High-speed flash and diverse configurations:
 - 24 x NVMe U.2 SSDs for high-speed flash and super performance
 - 25 x SAS/SATA SSDs for flexible configuration and high-speed I/O
 - 16 x SATA HDDs directly connected to CPUs for higher cost effectiveness



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

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 DDR5 DIMM slots, delivering up to 4800 MT/s
Local Storage	<p>Hot-swappable and flexible drive configurations:</p> <ul style="list-style-type: none"> • 8 x 2.5" SAS/SATA drives • 12 to 16 x 3.5" SAS/SATA drives • 24 x NVMe SSDs • 12 x 2.5" drives (including 8 x NVMe drives) <p>Flash storage:</p> <ul style="list-style-type: none"> • 2 x M.2 SSDs (SATA/NVMe)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors 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 expansion slot dedicated for an OCP 3.0 NIC; 8 x FH standard PCIe expansion slots, including 4 x PCIe 5.0 slots
GPU Card	2 x dual-width GPU cards or 8 x single-width GPU cards
Fan Module	4 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W/2000W Platinum/Titanium hot-swappable power supply, 1500W Platinum power supply, 3000W Titanium power supply, supports 1+1 redundancy
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 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	Fusion OS, 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, UL, 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.)



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