

# FusionServer 2158H V8 Rack Server

Powerful Performance Solid Reliability and Security,  
Optimal Efficiency and Energy Saving, and Intelligent O&M



# Rack Server

## FusionServer 2158H V8

### Introduction



2158H V8 (8 drives)



2158H V8 (12 drives)



2158H V8 (24 drives)

FusionServer 2158H V8 (2158H V8) is a next-generation 2U, 1-socket rack server tailored for various applications including SDS, VDI, CDN, virtualization, big data, databases, cloud environments, AI inference, small businesses, office automation, and web services. It effectively addresses the needs of enterprise or telecom service applications, along with other demanding workloads. The 2158H V8 offers exceptional performance, robust scalability, and dependable reliability, along with easy deployment and simplified management.

### Highlights



#### Powerful Performance

- 1 AMD 4th-Gen EPYC™ 9004 (Geona) or 5th-Gen EPYC™ 9005 series (Turin) 192-core processor with up to 500 W TDP and 12 DDR5 DIMMs
- Support for PCIe 5.0, 10 full-height standard PCIe slots and 2 OCP 3.0 slots, realizing 100% PCIe bandwidth improvement and high-speed interconnections
- High-speed flash and diverse configurations: SAS/SATA/NVMe/M.2 drives



#### Solid Reliability and Security

- Heat pipe based remote heat sink, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability by 50%
- Automatic fault information collection upon CPU failure, enabling quick fault location
- RoT-based secure boot



#### Optimal Efficiency and Energy Saving

- A unique algorithm designed to minimize power usage of fans and CPUs, resulting in higher energy savings than the industry average
- Three advanced power supply technologies incorporated to enhance power supply and efficiency, enable an industry-leading power conversion rate, and deliver power loss 12.5% lower than the 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

<b>Form Factor</b>	2U rack server
<b>Processor</b>	1 x 4th Gen AMD EPYCTM 9004 (Genoa) or 5th-Gen EPYC™ 9005 series (Turin) processor with up to 500 W TDP per processor
<b>Memory</b>	12 x DDR5 DIMMs, delivering up to 6400 MT/s
<b>Local Storage</b>	Hot-swappable and flexible drive configurations: <ul style="list-style-type: none"><li>- 8 x 2.5" SAS/SATA/NVMe drives</li><li>- 8 x 3.5" SAS/SATA/NVMe drives</li><li>- 12 x 3.5" SAS/SATA/NVMe drives</li><li>- 24 x 2.5" drives (16 x NVMe drives + 8 x SAS/SATA drives)</li><li>- 2 x M.2 SSDs (SAS/SATA)</li></ul>
<b>RAID</b>	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
<b>Network</b>	2 x OCP 3.0 NICs, which can be configured as required; support hot swap and PCIe 5.0
<b>PCIe Expansion</b>	10 x PCIe expansion slots; support PCIe 5.0
<b>GPU Card</b>	4 x dual-width GPU cards and 1 x dual-width DPU card
<b>Fan Module</b>	Four 80 x 80 or six 60 x 60 hot-swappable counter-rotating fan modules in N+1 redundancy
<b>PSU</b>	2 x PSUs in 1+1 redundancy: <ul style="list-style-type: none"><li>- 900 W/1500 W/2000 W Platinum AC PSUs</li><li>- 900 W/2000 W/3000 W Titanium AC PSUs</li><li>- 1200 W -48 V DC PSUs</li><li>- 1500 W 380 V high-voltage DC PSUs</li></ul>
<b>Management</b>	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"><li>- 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.</li><li>- 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.</li></ul>
<b>OS</b>	xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu
<b>Security</b>	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
<b>Operating Temperature</b>	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
<b>Certification</b>	CE, UL, CCC, FCC, VCCI, and RoHS
<b>Installation Suite</b>	L-shaped, adjustable, and holding rails
<b>Dimensions (H x W x D)</b>	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)



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