

**FusionServer**  
**1158H V7 Rack Server**

High Computing Density, Solid Reliability and Security,  
Optimum Efficiency and Energy Saving, and Intelligent O&M



# Rack Server

## FusionServer 1158H V7

### Introduction



1158H V7 (10 drives)

FusionServer 1158H V7 (1158H V7) is a new-generation 1U 1-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. The 1158H V7 is ideal for IT core services, virtualization, high-performance computing (HPC), and other complex workloads. The 1158H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

### Highlights



#### High Computing Density

- High computing density: 1 x 400 W CPUs with highest specifications and 24 x DDR5 DIMMs in a 1U space
- Fast interconnections boosting applications: PCIe 5.0 and 400 Gbit/s interconnections between NICs
- High-speed flash multiplying performance: 10 x 2.5" SAS/SATA drives/NVMe SSDs



#### 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



#### 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
- 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



<b>Form Factor</b>	1U rack server
<b>Processor</b>	1 x 4th Gen AMD® EPYC 9004 Series processors (Genoa) with up to 400 W TDP per processor
<b>Memory</b>	24 x DDR5 DIMMs slots, delivering up to 4800 MT/s
<b>Local Storage</b>	Hot-swappable and flexible drive configurations: <ul style="list-style-type: none"><li>• 10 x 2.5" SAS/SATA drives/SSDs (up to 4 x NVMe SSDs or 8 x SAS/SATA drives)</li><li>• 10 x 2.5" SAS/SATA/NVMe drives/SSDs</li><li>• 2 x M.2 SSDs (SATA/NVMe)</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 NIC, which can be configured as required and supports hot swap and PCIe 5.0
<b>PCIe Expansion</b>	5 x PCIe expansion slots, including 2 x FlexIO expansion slot dedicated for an OCP 3.0 NIC and 3 x standard PCIe slots, one of which supports PCIe 5.0
<b>Fan Module</b>	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
<b>PSU</b>	900W Platinum/Titanium hot-swappable power supply, 1500W/2000W Platinum power supply, supports 1+1 redundancy
<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 an intelligent, automatic, visualized, and refined management throughout the lifecycle.</li></ul>
<b>OS</b>	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
<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 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3
<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>	43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)



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