

FusionServer
1258H V7 Rack Server

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



Rack Server

FusionServer 1258H V7

Introduction



1258H V7 (4 drives)



1258H V7 (10 drives)

FusionServer 1258H V7 (1258H V7) is a new-generation 1U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. The 1258H V7 is ideal for IT core services, virtualization, high-performance computing (HPC), and other complex workloads. The 1258H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights



High Computing Density

- High computing density: 2 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



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	1U 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 DIMMs slots, delivering up to 4800 MT/s
Local Storage	<p>Hot-swappable and flexible drive configurations:</p> <ul style="list-style-type: none"> • 10 x 2.5" SAS/SATA drives/SSDs, including 2 to 4 x NVMe SSDs and 6 to 8 x SAS/SATA drives • 10 x 2.5" SAS/SATA drives/SSDs • 8 x 2.5" SAS/SATA drives/SSDs • 4 x 3.5" SAS/SATA drives • 32 x E1.s drives* • 20 x E3.s drives* • 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	4 x PCIe expansion slots, including 1 x FlexIO expansion slot dedicated for an OCP 3.0 NIC and 3 x standard PCIe slots, one of which supports PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W Platinum/Titanium hot-swappable power supply, 1500W/2000W Platinum 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 an 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 panel, secure boot, and chassis cover opening detection
Operating Temperature	5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)



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