

# FusionServer **5885H V7 Rack Server**

Key Applications, High Reliability and Security,  
Efficient Energy Saving, and Intelligent O&M



# Rack Server

## FusionServer 5885H V7

### Introduction



5885H V7  
(8 drives)



5885H V7  
(12 drives)



5885H V7  
(24 drives)



5885H V7  
(25 drives)



5885H V7  
(50 drives)



5885H V7  
(36 E1.S drives)

FusionServer 5885H V7 (5885H V7) is a 4U 4-socket rack server designed for the Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for various applications, such as databases, virtualization, and in-memory computing. The 5885H V7 features high-performance computing, large-capacity storage, low power consumption, high scalability and reliability, easy deployment, and simplified management.

### Highlights



#### High Efficiency, Stability, and Scalability

- 4 x new-generation Intel® Xeon® Scalable processors (Sapphire Rapids) in 4U space, up to 60 x cores and 120 x threads per processor, with TDP up to 350 W
- Up to 64 x DDR5 DIMMs, delivering up to 16 TB total memory capacity (calculated based on a maximum of 256 GB capacity per DDR5 memory module) and featuring high speed and availability
- Up to 52 x 2.5" drives
- Up to 24 x 2.5" NVMe SSDs, improving storage density and I/O performance
- Up to 21 x standard expansion slots
- 1 x GE/10GE/25GE/100GE OCP 3.0 NIC that supports orderly hot swap



#### Reliability and Security

- Unique AI memory fault self-healing ensures stable system running and reduces system downtime by 66%
- RoT-based secure boot ensures security everywhere



#### 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
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic load adjustment: The CPU working frequency is dynamically adjusted based on the actual service load



#### Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

<b>Form Factor</b>	4U rack server
<b>Processor</b>	2 or 4 x 4th Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
<b>Chipset</b>	Emmitsburg PCH
<b>Memory</b>	64 x DDR5 DIMMs
<b>Local Storage</b>	<p>Hot-swappable drives configurations:</p> <ul style="list-style-type: none"> <li>- 8, 24, 25, or 50 x front 2.5" SAS/SATA drives</li> <li>- 4 x front 2.5" SAS/SATA drives and 8 x NVMe SSDs</li> <li>- 24 x front NVMe SSDs</li> <li>- 25 x front 2.5" SAS/SATA drives and 24 x front NVMe SSDs</li> <li>- 36 x front E1.S SSDs</li> <li>- Up to 52 x 2.5" drives</li> </ul> <p>Flash storage: 2 x M.2 SSDs, supporting hardware RAID</p>
<b>RAID</b>	RAID 0, 1, 10, 1E, 5, 50, 6, or 60; supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
<b>Network</b>	Multiple network expansion capabilities: 1 x OCP 3.0 NIC, supporting hot swap
<b>PCIe Expansion</b>	Up to 22 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC and 21 x standard PCIe slots
<b>GPU Card</b>	4 x dual-width GPU cards; 14 x single-width GPU cards
<b>Fan Module</b>	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
<b>PSU</b>	<p>4 x hot-swappable Platinum/Titanium PSUs in 2+2 redundancy</p> <ul style="list-style-type: none"> <li>- 900 W AC Platinum/Titanium PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)</li> <li>- 1500 W AC Platinum PSUs <ul style="list-style-type: none"> <li>850 W (input: 100 V to 127 V AC)</li> <li>1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li> </ul> </li> <li>- 1500 W 380 V HVDC PSUs (input: 260 V to 400 V DC)</li> <li>- 1200 W -48 V to -60 V DC PSUs (input: -38.4 V to -72 V DC)</li> <li>- 2000 W AC Platinum/Titanium PSUs <ul style="list-style-type: none"> <li>1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC)</li> <li>2000 W (input: 220 V to 240 V AC, or 200 V to 288 V DC)</li> <li>2150 W Titanium PSUs (input: 230 V to 240 V AC, or 230 V to 288 V DC)</li> </ul> </li> <li>- 3000 W AC Titanium PSUs <ul style="list-style-type: none"> <li>2500 W (input: 200 V to 220 V AC, or 192 V to 200 V DC)</li> <li>2900 W (input: 220 V to 230 V AC, or 200 V to 230 V DC)</li> <li>3000 W (input: 230 to 240 V AC, or 230 to 288 V DC)</li> </ul> </li> </ul>
<b>Management</b>	<p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>- The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM; 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>	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 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4
<b>Certification</b>	CE, UL, CCC, FCC, VCCI, and RoHS
<b>Installation Suite</b>	L-shaped guide rails, adjustable guide rails, and holding rails
<b>Dimensions (H x W x D)</b>	Chassis with 2.5" drives: 175 mm x 447 mm x 898 mm (6.89 in. x 17.60 in. x 35.35 in.)



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