FusionServer

V5 Rack Servers
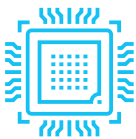
FusionServer
5885H V5 Server

5885H V5

Deliver Excellent Performance and Scalability to Enable Fast and Stable Mission-Critical Services |

The FusionServer 5885H V5 is a 4 U 4-socket rack server that meets the high reliability and performance requirements of computing-intensive services such as virtualization, HPC, and databases. A 4 U 5885H V5 supports four Intel® Xeon® Scalable processors, with 48 DDR4 DIMMs and up to 25 x 2.5-inch drives for local storage. It incorporates patented technologies such as DEMT and FDM, and can be configured with FusionDirector software

Delivers excellent stability and reliability for scenarios such as virtualization, HPC, and database.
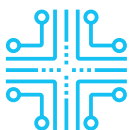
High Efficiency, Stability, and Expandability

- Supports four Intel® Xeon® Scalable processors in a 4U space. Its Ultra Path Interconnect (UPI) bus supports a speed of up to 10.4 GT/s, and a single CPU supports up to 28 computing cores. The server supports Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512).
- Supports 48 DDR4 DIMMs with a memory capacity of up to 6 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- Supports 24 Intel® Optane™ persistent memory (Optane™ PMem) modules (100 series) as volatile or non-volatile storage, which can be used together with 24 DDR4 DIMMs, offering up to 15 TB memory capacity (configured with 512 GB Optane™ PMem and 128 GB DDR4 DIMMs) to meet various workload requirements.
- 15 PCIe slots, providing excellent scalability.
- wo GE and two 10GE LAN on motherboard (LOM) ports with streamlined configuration, meeting networking requirements of 98% scenarios.
- Supports up to 25 x 2.5-inch local hard drives (configurable with 24 NVMe SSDs).
- Supports boot speedup storage technology (BSST). The OS is installed on two M.2 SSDs, which is deployed separately from service data. Supports hardware RAID and hot swappable for M.2 SSDs.

Smart Power Saving and Better Energy Efficiency

- Leverages patented DEMT, and multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies, driving down overall equipment power consumption by up to 15% without compromising workload performance.
- Fitted with 80 Plus® Platinum power supply units (PSUs), up to 94% conversion efficiency
- PSUs with 900 W, 1200 W, 1500 W, and more power options to flexibly adapt to different power requirements, improving energy utilization

Intelligent Management and Open Integration

- Integrates FusionDirector for intelligent full-lifecycle O&M, improving O&M efficiency by 30%.
  - » Intelligent maintenance integrates diagnosis and recovery, and accurately manages key components. The fault diagnosis accuracy reaches 93% and the breakdown rate decreases by 50%.
  - » Intelligent upgrade enables one-click automation, cloud-based collaboration for quick policy formulation, and firmware versions automatic completeness and upgrade in batches, improving efficiency by 20x.
  - » Intelligent discovery enables 100% accuracy of component-level visualization, automatic asset inventorying in seconds, and real-time track tracing.
  - » Intelligent energy saving enables refined dynamic energy management. It integrates the DEMT, saving 15% of the system energy.
  - » Intelligent deployment enables pipelined deployment, improving deployment efficiency by 10x.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

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Form Factor	4U rack server
Processors	2 or 4 1st Generation Intel® Xeon® Scalable processors (5100/6100/8100 series), up to 205 W 2 or 4 2nd Generation Intel® Xeon® Scalable processors (5200/6200/8200 series), up to 205 W
Chipset	Intel C622
Memory	48 DDR4 DIMM slots, 2933 MT/s; 24 Intel® Optane™ PMem modules (100 series), 2666 MT/s
Internal Storage	Supports hot-swappable hard drives with the following configuration options: • 8 x 2.5-inch front SAS/SATA hard drives • 24 x 2.5-inch front SAS/SATA hard drives • 25 x 2.5-inch front SAS/SATA hard drives • 16 x 2.5-inch front SAS/SATA hard drives and 8 x 2.5-inch NVMe SSDs • 24 x 2.5-inch front NVMe SSDs Flash storage: • 2 M.2 SSDs
RAID	RAID 0, 1, 5, 50, 6, or 60; optional supercapacitor for cache power-off protection，RAID-level migration, drive roaming, self-diagnosis, and web-based remote configuration
Network Ports	LAN on motherboard (LOM): 2 x 10GE + 2 x GE ports
PCIe Expansion	Up to 15 PCIe slots for 15 PCIe 3.0 slots 2 dual-width full-height full-length GPU cards (PCIe 3.0 x16) or 4 full-height half-length GPU cards (PCIe 3.0 x16)
Fan Modules	5 hot-swappable counter-rotating fan modules with optional N+1 redundancy

Power Supply	4 hot-swappable PSUs with optional 2+2 redundancy. Supported options include:
	• 1500 W AC Platinum PSUs
	   1000 W (input: 100 V to 127 V AC)
	   1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)
	• 900 W AC PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)
	• 200 W DC PSUs (input: -38.4 V to -72 V DC)

Management	• iBMC integrates one dedicated management GE network port to provide comprehensive management features such as fault diagnosis, automated O&M, and hardware security hardening. • iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management interface based on HTML5/VNC KVM; supports CD-free deployment and the Agentless feature, simplifying management. • (Optional) Configured with the FusionDirector management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire- lifecycle management.
Operating Systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, VMware ESXi For details, visit https://www.xfusion.com/en/
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, and security front panel
Operating Temperature	5ºC to 45ºC (41ºF to 113ºF) (ASHRAE A3 and A4 compliant)
Certification	CE, UL, FCC, CCC, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 790 mm (6.89 in. x 17.60 in. x 31.10 in.)

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