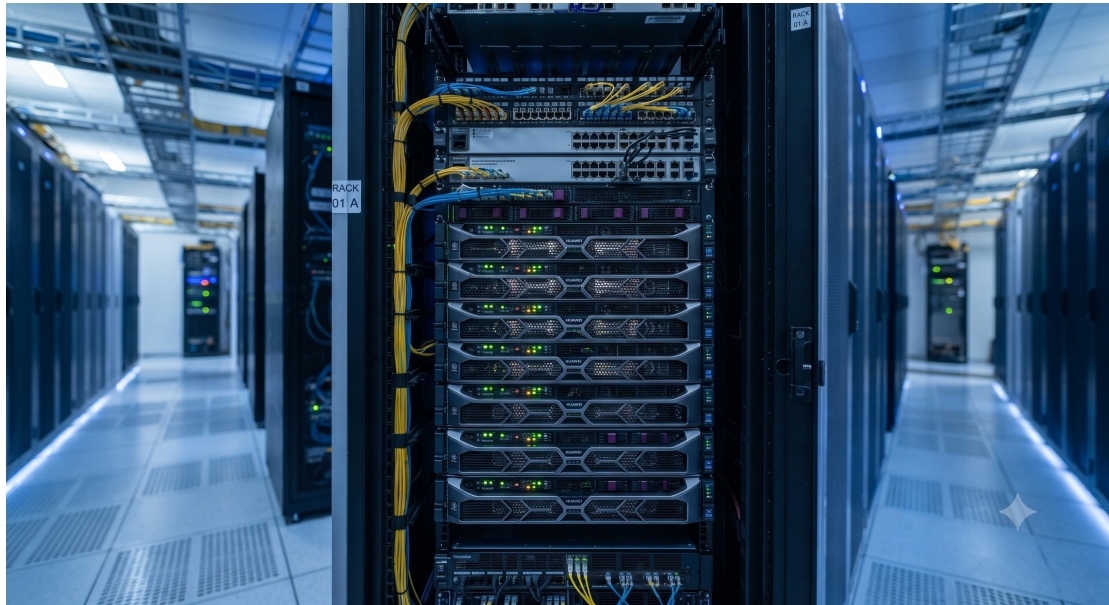


Huawei FusionServer Pro - Official Technical Overview & Hardware Datasheet

EXECUTIVE SUMMARY

Huawei FusionServer Pro represents a significant leap forward in data center infrastructure, delivering a comprehensive portfolio of rack servers engineered for the most demanding enterprise and cloud computing environments. This document provides an authoritative technical overview and hardware datasheet for the FusionServer Pro series, encompassing the 1U 1288H, 2U 2288H, 2U 2488H, and 4U 5885H models.

Designed to meet the rigorous performance, scalability, and reliability requirements of modern data centers, the FusionServer Pro platform integrates advanced Intel Xeon Scalable processors, high-speed DDR4 memory, and flexible storage configurations within a purpose-built architecture that maximizes resource utilization and simplifies management. This document provides a comprehensive technical overview and hardware datasheet for the platform.



ARCHITECTURE & CHASSIS DESIGN

The Huawei FusionServer Pro series is built upon a versatile, modular chassis design that accommodates diverse workload requirements through a selection of form factors:

1U Form Factor (1288H V6): Optimized for high-density compute environments, the 1288H V6 features a 43.5mm x 447mm x 790mm chassis, supporting up to two 3rd Generation Intel Xeon Scalable processors and a comprehensive array of storage configurations .

2U Form Factor (2288H V5): The 2288H V5 offers a balanced architecture with a compact 86.1mm x 447mm x 748mm chassis, designed to support a wide range of enterprise applications .

4U Form Factor (5885H V5): For memory-intensive and high-performance computing tasks, the 5885H V5 provides expansive compute capacity in a 175mm x 447mm x 790mm chassis, supporting up to four Intel Xeon Scalable processors .

The 2488H V6 offers a specialized 2U form factor engineered to house up to four Intel Xeon Scalable processors, providing exceptional computational density for demanding workloads .

HARDWARE FEATURES

Processor Architecture

The FusionServer Pro series leverages the power of Intel Xeon Scalable processors. The V5 generation utilizes Intel Xeon Silver and Gold processors, with configurations such as the Xeon Silver 4208 (2.1GHz, 8 cores) and Xeon Gold 6226R (2.9GHz, 16 cores) . The V6 generation, including the 1288H V6 and 2488H V6, features the 3rd Generation Intel Xeon Scalable processors, built on a 14nm process with support for up to 3200MT/s memory speeds, delivering substantial performance improvements .

Memory Subsystem

Memory capacity and bandwidth are critical for performance. The FusionServer Pro platform offers extensive memory configurations:

- 1288H V6: 32 DDR4 DIMM slots
- 2288H V5: 24 DDR4 DIMM slots, supporting up to 2933MT/s memory
- 2488H V6: 48 DDR4 DIMM slots, with support for up to 24 Intel Optane

Persistent Memory modules, enabling a maximum memory capacity of 18TB

- 5885H V5: 48 DDR4 DIMM slots

Storage and I/O Flexibility

The FusionServer Pro series is renowned for its storage versatility, supporting SATA, SAS, and NVMe SSDs to address a broad spectrum of performance and capacity needs.

- 1288H V6: Supports up to 10 x 2.5-inch drives with flexible NVMe configurations .
- 2288H V5: Supports up to 8 x 2.5-inch drives .
- 2488H V6: Supports up to 25 x 2.5-inch drives, delivering high storage density .
- 5885H V5: Supports up to 25 x 2.5-inch drives in its larger chassis .

Network connectivity is robust, with standard configurations featuring 2 x 10GE and 2 x GE onboard ports. The platform also includes a dedicated management GE port for out-of-band management .

COMPLIANCE & STANDARDS

The Huawei FusionServer Pro is engineered to meet the highest industry standards for safety, electromagnetic compatibility, and environmental responsibility. The platform holds key certifications including CE, UL, FCC, CCC, and RoHS, ensuring compliance for global deployment .

System Management and Security

Central to the FusionServer Pro's operational excellence is the Huawei iBMC (Intelligent Baseboard Management Controller). This embedded management chip provides comprehensive fault diagnosis, automated O&M, and hardware security hardening. It supports standard management interfaces including Redfish, SNMP, and IPMI 2.0, and offers a user-friendly HTML5/VNC KVM remote management interface .

For advanced, lifecycle management, the optional Huawei FusionDirector

management software provides capabilities such as stateless computing, OS batch deployment, and automated firmware upgrades. Security is further enhanced through features including power-on and administrator passwords, TPM 2.0 support, secure boot, and tamper-proof chassis detection .

TECHNICAL SPECIFICATIONS

Parameter	Specification
Form Factor	1U (1288H V6) / 2U (2288H V5, 2488H V6) / 4U (5888H V5)
Processor	1st/2nd Gen Intel Xeon Scalable (V5) / 3rd Gen Intel Xeon Scalable (V6)
Max CPUs	2 (1U/2U) / 4 (4U/2488H V6)
Memory Slots	24-48 DIMM Slots (DDR4 up to 3200 MT/s)
Storage Bays	8-25 x 2.5-inch (SATA/SAS/NVMe)
Network Interface	2 x 10GE + 2 x GE (Onboard)
Management	Huawei iBMC with Redfish, SNMP, IPMI 2.0
Power Supply	1+1 Redundant, Hot-swappable (550W-1500W)
Dimensions (HxWxD)	43.5mm-175mm x 447mm x

	708mm-790mm
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ORDERING OPTIONS

Huawei offers a comprehensive range of ordering options for the FusionServer Pro series to tailor configurations to specific workload requirements. Customers can specify processor type and count (ranging from one to four Intel Xeon Scalable CPUs), memory capacity and speed, storage drive types (SATA, SAS, or NVMe SSDs) and count, and RAID controller options .

Additional options include a flexible range of PCIe expansion cards for network and storage adapters, redundant and hot-swappable power supplies (with 550W to 1500W modules available) , and GPU acceleration options for specialized compute tasks .

The platform also provides a selection of operating system support, including Microsoft Windows Server, various Linux distributions (Red Hat, SUSE, CentOS), and virtualization platforms like VMware ESXi and Citrix XenServer .



For detailed configuration assistance and to place orders, please consult your authorized Huawei sales representative or visit the official Huawei enterprise website. The FusionServer Pro series, with its three-year standard warranty and global support infrastructure, represents a strategic investment for any enterprise building a scalable, reliable, and future-ready data center.