

FusionServer

V5 Rack Servers



FusionServer 2488/2488H V5 Server

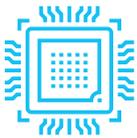


2488/2488H V5

| New Option for Distributed Deployment with Higher Computing Efficiency |

- 4 Intel® Xeon® Scalable processors in 2U space, with 32/48 DDR4 DIMMs
- Up to 25 2.5-inch hard drives for local storage, or 8 NVMe SSDs
- 2 10GE and 2 GE LOM ports, and 9/11 PCIe expansion slots
- Delivers lower OPEX than 2U 2-socket servers; leverages intelligent energy saving to improve performance per watt by 15%; combines intelligent management features to enable up to 93% accuracy for fault locating

Unlocks high computing efficiency for scenarios such as virtualization, HPC, database, and SAP HANA in-memory computing.



Superior Performance with Higher Efficiency

- Supports 4 Intel® Xeon® Scalable Processors (Platinum or Gold series) in a 2U space. Its Ultra Path Interconnect (UPI) bus supports rates of up to 10.4 GT/s, and a single processor supports up to 28 cores. The server supports Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 40% higher compute power than the previous-generation processor.
- Supports 32/ 48¹ DDR4 DIMMs with a memory capacity of up to 4 TB / 6 TB (configured with 128 GB DIMMs) to meet large-capacity memory application requirements.
- The 2488 V5 supports 8 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 7 TB memory capacity (configured with 512 GB Optane™ PMem and 128 GB DDR4 DIMMs) to meet various workload requirements.
- The 2488H V5 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.
- Supports two GE and two 10GE LAN on motherboard (LOM) ports, meeting networking requirements of 98% scenarios with streamlined configuration.
- Supports up to 25 2.5-inch local hard drives (configurable with 8 NVMe SSDs).
- One 2488/2488H V5 saves up to 32%² OPEX in the virtualization scenario compared with two traditional 2U 2S servers.

¹ The 2488 V5 supports up to 32 DIMMs and 2488H V5 supports 48 DIMMs.

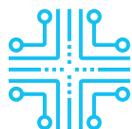
² Data is derived from lab tests; actual improvement depends on the real-world scenario.

- 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 Dynamic Energy Management Technology (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.
- Supports 2,000 W Platinum AC power supply unit (PSU), meeting ultra-high performance requirements; leverages the DC and high-voltage DC (HVDC) technologies to improve 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.

FusionServer 2488/2488H V5 Server

	2488 V5	2488H V5
Form factor	2U 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 platform	Intel C622	
Memory	32 DDR4 DIMM slots, 2933 MT/s; up to 8 Intel® Optane™ PMem modules (100 series), 2666 MT/s	48 DDR4 DIMM slots, 2933MT/s; up to 24 Intel® Optane™ PMem modules (100 series), 2666 MT/s
Internal storage	<p>Supports hot-swappable hard drives with the following configuration options:</p> <ul style="list-style-type: none"> • 8 x 2.5-inch SAS/SATA hard drives • 25 x 2.5-inch SAS/SATA hard drives • 8 x 2.5-inch NVMe SSDs and 16 x 2.5-inch SAS/SATA hard drives <p>Flash storage:</p> <ul style="list-style-type: none"> • 2 M.2 SSDs 	<p>Supports hot-swappable hard drives with the following configuration options:</p> <ul style="list-style-type: none"> • 8 x 2.5-inch SAS/SATA hard drives • 25 x 2.5-inch SAS/SATA hard drives • 24 x 2.5-inch SAS/SATA hard drives • 8 x 2.5-inch NVMe SSDs and 16 x 2.5-inch SAS/SATA hard drives • 24 x 2.5-inch NVMe SSDs <p>Flash storage:</p> <ul style="list-style-type: none"> • 2 M.2 SSDs
RAID support	RAID 0, 1, 1E, 5, 50, 6, or 60; optional supercapacitor for cache power-off protection; RAID-level migration, drive roaming, self-diagnosis, and web-based remote configuration	
LOM network ports	2 x GE + 2 x 10GE ports	
PCIe expansion	Up to 9 PCIe 3.0 slots	Up to 11 PCIe 3.0 slots
Fan modules	4 hot-swappable fan modules, providing protection against single-fan failures	
Power supply units	<p>2 hot-swappable PSUs, with support for 1+1 redundancy. The following PSUs are supported:</p> <ul style="list-style-type: none"> • 2000 W AC Platinum PSUs 1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC) 2000 W (input: 200 V to 240 V AC, or 200 V to 288 V DC) • 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 Platinum PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC) • 1200 W DC PSUs (input: -38.4 V to -72 V DC) 	
Management	<ul style="list-style-type: none"> • 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, secure startup, and security front panel	
Operating temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A3 and A4	
Certification	CE, FCC, CCC, RoHS	
Installation suite	L-shaped guide rails, adjustable guide rails, and holding rails	
Dimensions (H x W x D)	86.1 mm x 447 mm x 748 mm (3.39 in. x 17.60 in. x 29.45 in.)	

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