

FusionServer

# 2488H V6 Server



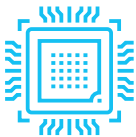
# FusionServer 2488H V6 Server



2488H V6

| Mission-critical Servers,  
Stable and Reliable |

FusionServer 2488H V6 is the latest 2U 4-socket rack server. It is ideal for computing-intensive scenarios, such as cloud computing, virtualization, HPC, databases, and SAP HANA. Compared with two 2U 2-socket rack servers, the 2488H V6 saves more OPEX in virtualization scenarios. It is configured with four 3rd Intel® Xeon® Scalable processors and supports up to 48 DDR4 DIMMss, 11 PCIe slots and a maximum of 25 x 2.5-inch drives for local storage. It incorporates patented technologies, such as DEMA and FDM, and integrates FusionDirector software for entire-lifecycle management, helping customers drive down OPEX and improve ROI.



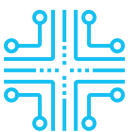
## Optimal Performance and High Efficiency

- Four 3rd generation Intel® Xeon® Scalable processors run on a 2U space. Each processor supports up to 28 computing cores. It supports Intel® Turbo Boost, hyper-threading, and AVX-512, improving server processing performance through six 10.4 GT/s UPI links.
- Supports Intel® Deep Learning Boost. The latest BFloat16 instruction set and vector neural network instructions (VNNI) provide up to 93% higher training and 90% higher inference performance than the previous generation processors FP32.
- Supports a maximum of 48 DDR4 DIMMss of the 3200 MT/s registered DIMMss (RDIMMss) and load-reduced DIMMss (LRDIMMss). The memory capacity is up to 12 TB, meeting the requirements of large-capacity memory applications.
- Supports the use of 24 Optane™ PMem 200 series with DDR4 DIMMss. The memory capacity is up to 18 TB to meet the demands of various workloads.
- Supports two dual-slot FHFL or four single-slot HHHL GPU heterogeneous accelerator cards, providing powerful computing power for AI analysis and training scenarios.
- Supports a maximum of 25 x 2.5-inch SAS/SATA drives and 16 NVMe SSDs. Multiple storage media can be combined to achieve data tiering and ultimate performance.
- 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

- Adopts DEMA, driving down overall equipment power consumption by up to 15% without compromising workload performance through multiple power-saving measures such as component hibernation, PID/DTS algorithm based fan speed tuning, and active-standby power supplies.
- Supports 900 W, 1200 W, 1500 W, 2000 W and 3000 W PSU options, meeting various workloads and high performance requirements.
- Supports 1500 W HVDC PSUs, improving more than 94% energy efficiency.
- Uses 80 PLUS® Titanium PSUs that provide a conversion efficiency of up to 96%.



## Intelligent Management and Openness for 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 DEMA 2.0, saving 18% of the system energy.
  - » Intelligent deployment enables pipelined deployment and one-clicks switchover on demand, improving deployment efficiency by 10x.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

# FusionServer 2488H V6 Server

Server Type	2U rack server
Processors	Two or four 3rd Gen Intel® Xeon® scalable processors (5300/6300/8300 series), TDP up to 250 W
Chipset	Intel C621A
Memory	48 DDR4 DIMMs, up to 3,200 MT/s; 24 Optane™ PMem 200 series, up to 2,666 MT/s.
Local Storage	Supports various drive configurations and hot swappable: <ul style="list-style-type: none"> <li>• 8 x 2.5-inch front SAS/SATA drives</li> <li>• 24 x 2.5-inch front SAS/SATA drives</li> <li>• 25 x 2.5-inch front SAS/SATA drives</li> <li>• 4 x 2.5-inch front SAS/SATA drives and 8 x NVMe SSDs</li> <li>• 4 x 2.5-inch front SAS/SATA drives and 16 x NVMe SSDs</li> </ul> Supports flash storage: <ul style="list-style-type: none"> <li>• Dual M.2 SSDs</li> </ul>
RAID Support	Supports RAID 0, 1, 10, 5, 50, 6, or 60, optional supercapacitor for cache data power failure protection, RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration.
Network	(Optional) One OCP 3.0 NIC: supports two GE, two 10GE, two 25GE, or two 100GE ports; supports hot-swappable, NC-SI, WOL, and PXE.
PCIe Expansion	Provides up to 11 PCIe 3.0 slots, including 9 rear I/O PCIe slots, 1 internal PCIe slot, and 1 OCP 3.0-dedicated FlexIO slot
Heterogeneous Acceleration Cards	Supports two dual-slot FHFL GPUs or four single-slot HHHL GPU heterogeneous accelerator cards. For details, see <a href="https://www.xfusion.com/en/">https://www.xfusion.com/en/</a>
Fan Modules	Six hot-swappable fan modules in N+1 redundancy mode
Power Supply	Two hot-swappable PSUs in 1+1 redundancy mode. Supported options include: <ul style="list-style-type: none"> <li>• 3000 W AC Titanium PSUs <ul style="list-style-type: none"> <li>2500 W (input: 200 V to 220 V AC)</li> <li>2900 W (input: 220 V to 230 V AC)</li> <li>3000 W (input: 230 V to 240 V AC)</li> </ul> </li> <li>• 2000 W AC Platinum 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> </ul> </li> <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 HVDC PSUs (input: 260 V to 400 V DC, or 200 V to 277 V AC)</li> <li>• 1200 W DC PSUs (input: -38.4 V to -72 V DC)</li> </ul>
Management	The iBMC chip integrates one dedicated GE management port to provide comprehensive management functions such as fault diagnosis, automated O&M, and hardware security hardening. <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 CD-free deployment and Agentless for smart and simplified management.</li> <li>• (Optional) Configured with the FusionDirector management software to provide advanced management functions such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling automatic management throughout the lifecycle.</li> </ul>
Operating Systems	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, etc. For details, see <a href="https://www.xfusion.com/en/">https://www.xfusion.com/en/</a>
Security Features	Supports power-on password, administrator password, Trusted Cryptography Module (TCM) /TPM 2.0, security panel, secure boot, and cover opening detection.
Operating Temperature	5°C to 45°C (41°F to 113°F) (ASHRAE Class A2/A3/A4 compliant)
Certifications	CE, UL, FCC, CCC, RoHS, etc
Installation Kit	Supports adjustable guide rails, holding rails, and cable management arm.
Dimensions (H x W x D)	86.1 mm x 447 mm x 790 mm (3.39 in. x 17.60 in. x 31.10in.)

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