

ZOOM Hard'Server

V6 Rack Server

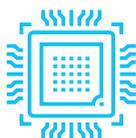




2488H V6

| Mission-critical Servers, Stable and Reliable |

ZOOM Hard'Server 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 DIMMs, 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.



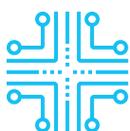
Optimal Performance and High Efficiency

- 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 DIMMs of the 3200 MT/s registered DIMMs (RDIMMs) and load-reduced DIMMs (LRDIMMs). 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 DIMMs. 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. 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.

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 DIMMss, up to 3,200 MT/s; 24 Optane™ PMem 200 series, up to 2,666 MT/s.
Local Storage	<p>Supports various drive configurations and hot swappable:</p> <ul style="list-style-type: none"> • 8 x 2.5-inch front SAS/SATA drives • 25 x 2.5-inch front SAS/SATA drives • Supports flash storage: • Dual M.2 SSDs
RAID Support	Supports RAID 0, 1, 1E, 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.
Heterogeneous Acceleration Cards	Supports two dual-slot FHFL GPUs or four single-slot HHHL GPU heterogeneous accelerator cards. For details, see www.zoomindustry.com.br
Fan Modules	Six hot-swappable fan modules in N+1 redundancy mode
Power Supply	<ul style="list-style-type: none"> • Two hot-swappable PSUs in 1+1 redundancy mode. Supported options include: • 3000 W AC Titanium PSUs 2500 W (input: 200 V to 220 V AC) 2900 W (input: 220 V to 230 V AC) 3000 W (input: 230 V to 240 V AC) • 2000 W AC Platinum PSUs 1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC) 2000 W (input: 220 V to 240 V AC, or 200 V to 288 V DC) • 900 W AC Platinum/Titanium PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC) • 1500 W HVDC PSUs (input: 260 V to 400 V DC, or 200 V to 277 V AC) • 1200 W DC PSUs (input: -38.4 V to -72 V DC)
Management	<p>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.</p> <ul style="list-style-type: none"> • 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. • (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.
Operating Systems	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, etc. For details, see www.zoomindustry.com.br
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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