

FusionServer

# 1288H V6 Server



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## | Ultimate Computing, High-density Flexible Deployment |



1288H V6 (4 drives)

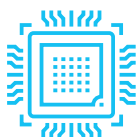


1288H V6 (8 drives)



1288H V6 (10 drives)

FusionServer 1288H V6 is a 1U 2-socket rack server. It improves space utilization for data centers and is ideal for high-density deployment scenarios for workloads such as cloud computing, virtualization, high-performance computing (HPC), and big data processing. The 1288H V6 is configured with two Intel® Xeon® Scalable processors and supports up to 32 DDR4 DIMMss, and 4 x 3.5-inch or 10 x 2.5-inch drives for local storage (configurable with 4 or 10 NVMe SSDs). It incorporates patented technologies, such as Dynamic Energy Management Technology (DEMT) and Fault Diagnosis & Management (FDM), and integrates FusionDirector software for entire-lifecycle management, helping customers drive down operating expense (OPEX) and improve return on investment (ROI).



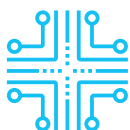
### Superior Performance and Ultra-high Density

- Two Intel® Xeon® Scalable processors can run on a 1U space, with an UltraPath Interconnect (UPI) bus speed of up to 11.2 GT/s between processors. Each processor supports up to 40 computing cores. It supports Intel® Turbo Boost 2.0, hyper-threading, and Advanced Vector Extensions (AVX-512), improving the computing performance of a single processor by up to 46% compared with that of the previous generation.
- Provides 32 DDR4 DIMMss and delivers memory capacity of up to 8 TB (with 256 GB DIMMs). This is ideal for application scenarios that require large-capacity memory.
- Supports the use of 16 Intel® Optane™ Persistent Memory (Optane™ PMem) 200 series as volatile or non-volatile storage with 16 DDR4 DIMMss. The memory capacity is up to 12 TB (with 512 GB Optane™ PMem and 256 GB DDR4 DIMMs) to meet the demands of various workloads.
- Supports OCP 3.0 NICs. The two FlexIO card slots support two OCP 3.0 NICs respectively, which can be configured as required.
- 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 DEMT, driving down overall equipment power consumption by up to 18% without compromising workload performance through multiple power-saving measures such as component hibernation, proportional-integral-derivative (PID) algorithm based fan speed tuning, and active-standby power supplies.
- Uses 80 PLUS® Titanium power supply units (PSUs) that provide a conversion efficiency of up to 96% and has passed the Energy Conservation and Environmentally-friendly Certification released by China Quality Certification Center (CQC).
- Supports 900 W, 1200 W, 1500 W and 2000 W PSU options, adapting flexibly to different power requirements. The 1200 W and 1500 W PSUs use direct current (DC) and high-voltage direct current (HVDC) technologies, improving energy efficiency.



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

# FusionServer

## 1288H V6 Server

Server Type	1U rack server
Processors	One or two 3rd Gen Intel® Xeon® Scalable Ice Lake processors (8300/6300/5300/4300 series), thermal design power (TDP) up to 270 W.
Chipset	Intel C621A
Memory	32 DDR4 DIMMss, up to 3,200 MT/s; 16 Optane™ PMem 200 series, up to 3,200 MT/s.
Local Storage	<p>Supports various drive configurations and hot swappable:</p> <ul style="list-style-type: none"> <li>• 10 x 2.5-inch drives (6–10 NVMe SSDs and 0–4 SAS/SATA drives, with a total number of 10 or less)</li> <li>• 10 x 2.5-inch drives (2–4 NVMe SSDs and 6–8 SAS/SATA drives, with a total number of 10 or less)</li> <li>• 10 x 2.5-inch SAS/SATA/SSD drives</li> <li>• 8 x 2.5-inch SAS/SATA/SSD drives</li> <li>• 4 x 3.5-inch SAS/SATA/SSD drives</li> </ul> <p>Supports flash storage:</p> <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	<p>Provides expansion capability of multiple types of networks.</p> <p>Provides OCP 3.0 NICs. The two FlexIO card slots support two OCP 3.0 network adapter respectively, which can be configured as required. Hot swappable function supported.</p>
PCIe Expansion	Provides six PCIe slots, including one PCIe slot dedicated for a RAID card, two FlexIO card slots dedicated for OCP 3.0 network adapters, and three PCIe 4.0 slots for standard PCIe cards.
Fan Modules	Seven hot-swappable counter-rotating fan modules in N+1 redundancy mode
Power Supply	<p>Two hot-swappable PSUs in 1+1 redundancy mode. Supported options include:</p> <ul style="list-style-type: none"> <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 AC Platinum PSUs <ul style="list-style-type: none"> <li>1000 W (input: 100 V to 127 V AC)</li> <li>1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)</li> </ul> </li> <li>• 1500 W 380 V HVDC PSUs (input: 260 V to 400 V DC)</li> <li>• 1200 W -48 V to -60 V DC PSUs (input: -38.4 V to -72 V DC)</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> </ul>
Management	<p>The iBMC chip integrates one dedicated Gigabit Ethernet (GE) management port to provide comprehensive management functions such as fault diagnosis, automated O&amp;M, and hardware security hardening.</p> <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.
Security Features	Supports power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and cover opening detection.
Operating Temperature	5°C to 45°C (41°F to 113°F) (ASHRAE Classes A1 to A4 compliant)
Certifications	CE, UL, FCC, CCC, VCCI, RoHS, etc
Installation Kit	Supports L-shaped guide rails, adjustable guide rails, and holding rails.
Dimensions (H x W x D)	43.5 mm x 447 mm x 790 mm (1.71 in. x 17.60 in. x 31.10 in.)

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