Fusion X, Digital Infinity

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.

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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	Supports various drive configurations and hot swappable: • 10 x 2.5-inch drives (6–10 NVMe SSDs and 0–4 SAS/SATA drives, with a total number of 10 or less) • 10 x 2.5-inch drives (2–4 NVMe SSDs and 6–8 SAS/SATA drives, with a total number of 10 or less) • 10 x 2.5-inch SAS/SATA/SSD drives • 8 x 2.5-inch SAS/SATA/SSD drives • 4 x 3.5-inch SAS/SATA/SSD drives Supports flash storage: • Dual M.2 SSDs
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	Provides expansion capability of multiple types of networks. 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.
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	Two hot-swappable PSUs in 1+1 redundancy mode. Supported options include: • 900 W AC Platinum/Titanium PSUs (input: 100 V to 240 V AC, or 192 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) • 1500 W 380 V HVDC PSUs (input: 260 V to 400 V DC) • 1200 W -48 V to -60 V DC PSUs (input: -38.4 V to -72 V DC) • 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)
Management	The iBMC chip integrates one dedicated Gigabit Ethernet (GE) management port to provide comprehensive management functions such as fault diagnosis, automated O&M, and hardware security hardening. • 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.
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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