FusionServer

# 5288 V6 Server

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## | Hybrid Storage Architecture, Tiered Data Storage |

FusionServer 5288 V6 is a 4U 2-socket rack server, applicable to services such as tiered storage of hot, warm, and cold data, and historical data archiving. With high efficiency design, the server ensures excellent computing performance and provides flexible and ultra-large local storage scalability to reduce data storage costs. The 5288 V6 is configured with two Intel® Xeon® Scalable processors and supports up to 32 DDR4 DIMMss, and 44 x 3.5-inch PLUS 4 NVMe SSDs for local storage. It incorporates patented technologies, such as DEMT and FDM, and integrates FusionDirector software for entire-lifecycle management, helping customers drive down OPEX and improve ROI.

### Ultra-Large Capacity and Tiered Storage

- Two Intel® Xeon® Scalable processors can run on a 4U space, with an 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, hyper-threading, and 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 8.192 TB (with 256 GB DIMMs). This is ideal for application scenarios that require large-capacity memory.
- Supports the use of 16 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 44 x 3.5-inch PLUS 4 x NVMe SSDs and provides large storage space, making them ideal for hot, warm, and cold data tiered storage.
- Supports eight half-height half-length GPU acceleration cards to meet video analytics service requirements.
- Supports OCP 3.0 NICs. The two FlexIO card slots support two OCP 3.0 network adapter 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, PID algorithm based fan speed tuning, and active-standby power supplies.
- Uses 80 PLUS® Titanium PSUs that provide a conversion efficiency of up to 96% and has passed the Energy Conservation and Environmentally-friendly Certification released by CQC.
- Supports 900 W, 1500 W, and 2000 W PSU options, adapting flexibly to different power requirements and improving energy efficiency.
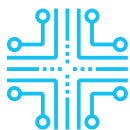
### Intelligent Management and Open Integration

- 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 | 4U rack server |
| Processors | One or two 3rd Gen Intel® Xeon® Scalable Ice Lake processors (8300/6300/5300/4300 series), 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:<br>• 36-44 3.5-inch SAS/SATA drives + 4 NVMe SSDs<br>• 24 x 3.5-inch front SAS/SATA drives<br>• 4 x 3.5-inch embedded SAS/SATA drives<br>• 16 x 3.5-inch SAS/SATA drives + 4 x 2.5-inch rear SAS/SATA/NVMe SSDs<br>Supports flash storage:<br>• Dual M.2 SSDs |
| RAID Support | Supports RAID 0, 1, 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.<br>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 a maximum of eleven PCIe 4.0 slots, including one PCIe slot dedicated for RAID card, two FlexIO card slots dedicated for OCP 3.0, and eight PCIe 4.0 slots for standard PCIe cards. |
| Fan Modules | Four hot-swappable fan modules in N+1 redundancy mode |
| Power Supply | Two hot-swappable PSUs in 1+1 redundancy mode. Supported options include:<br>• 900 W AC Platinum/Titanium PSUs (input: 100 V to 240 V AC, or 192 V to 288 V DC)<br>• 1500 W AC Platinum PSUs<br>  1000 W (input: 100 V to 127 V AC)<br>  1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC)<br>• 2000 W AC Platinum PSUs<br>  1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC)<br>  2000 W (input: 220 V to 240 V AC, or 200 V to 288 V DC) |
| 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.<br>• The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management user interface based on HTML5/VNC KVM; provides out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for smart and simplified management.<br>• (Optional) Configured with the FusionDirector management software to provide advanced management functions such as five intelligent technologies, realizing intelligent, automatic, visualized, and refined 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 | Power-on password, administrator password, 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 A3 compliant) |
| Certifications | CE, UL, CCC, FCC, VCCI, RoHS, etc |
| Installation Kit | L-shaped guide rails, adjustable guide rails, and holding rails. |
| Dimensions (H x W x D) | 175 mm x 447 mm x 790 mm (6.89 in. x 17.60 in. x 31.10in.) |

**xFusion Digital Technologies Co., Ltd.**

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