FUSION

Fusion X, Digital Infinity

FusionServer

V5 Rack Servers

FusionServer

2298 V5 Server

2298 V5 (24-drive)

| Large-Capacity and Versatile |

The FusionServer 2298 V5 is a 2U 2-socket rack server that supports various configurations and can be widely applied to scenarios such as cloud computing, virtualization, databases, and big data. It can be configured with 2 Intel® Xeon® Scalable processors, 12 DDR4 DIMMs, 4 PCIe slots, and large-capacity local storage resources.

The 2298 V5 incorporates patented technologies such as Dynamic Energy Management Technology (DEMT) and Fault Diagnosis & Management (FDM), and is configurable with FusionServer's FusionDirector software for full-lifecycle management, helping reduce OPEX and improve ROI.

Robust Performance with Flexible Configurations

- Supports 2 Intel® Xeon® Scalable processors in a 2U space, with an Ultra Path Interconnect (UPI) bus speed of up to 10.4 GT/s. Each processor supports up to 20/28 cores. The server supports the Intel® Turbo Boost, hyper-threading, and Advanced Vector Extensions (AVX-512). A single processor delivers up to 40% higher computing performance than its predecessor.
- Supports 12 DDR4 DIMMs with a memory capacity of up to 768 GB, meeting large-capacity memory application requirements.
- Supports local storage resources of 24 x 3.5" SAS/SATA HDDs and 4 NVMe SSDs with 2 built-in M.2 SSDs.
- Supports 2 x 10GE LAN on motherboard (LOM) ports and 2 onboard OCP 2.0 mezzanine cards, meeting the networking requirements of 98% scenarios with streamlined configuration.

Intelligent Power Saving for Higher Efficiency

- Leverages the patented DEMT and multiple power-saving technologies, such as component hibernation, fan speed tuning based on the proportional-integral-derivative (PID) algorithm, and active-standby power supplies, to reduce overall equipment power consumption by up to 15% without compromising workload performance.
- Equipped with 80 Plus® Titanium power supply units (PSUs) to deliver up to 96% conversion efficiency, compliant with China Energy Conservation Certification.
- Supports 550 W, 900 W, 1200 W, and 1500 W PSU options, adapting flexibly to different power requirements. The 1200 W and 1500 W PSUs support DC and high-voltage DC (HVDC) technologies, improving energy utilization.

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, saving 15% of the system energy.
  - » Intelligent deployment enables pipelined deployment, improving deployment efficiency by 10x.
- Provides standardized open interfaces and development guides, facilitating seamless integration with third-party management software.

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Form factor	2U rack server
Processors	1 or 2 1st Generation Intel® Xeon® Scalable processors (3100/4100/5100/6100/8100 series), 205 W thermal design power (TDP) 1 or 2 2nd Generation Intel® Xeon® Scalable processors (3200/4200/5200/6200/8200 series), 205 W TDP
Chipset platform	Intel C622
Memory	12 DDR4 DIMM slots, up to 2933 MT/s
Local storage	Supports hot-pluggable hard drives with the following configuration options: • 24 x 3.5" SAS/SATA HDDs • 4 NVMe SSDs configurable for flash storage • 2 M.2 SSDs
RAID support	RAID 0 or 1. Configured with a supercapacitor for cache power-off protection, and supports RAID-level migration, drive roaming, self-diagnosis, and web-based remote configuration.
Network ports	LOM: 2 x 10GE (optical ports) + 2 x GE ports FlexIO card: 2 x 25GE OCP 2.0 mezzanine cards
PCIe expansion	Up to 4 PCIe 3.0 slots
Fan modules	5 hot-swappable counter-rotating fan modules, supporting N+1 redundancy
Power supply units	2 hot-swappable PSUs supporting 1+1 redundancy and the following configuration options: • 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)
Management	• iBMC integrates one dedicated management GE network port to provide comprehensive management features, including fault diagnosis, automated O&M, and hardware security hardening. • iBMC supports standard interfaces, such as Redfish, SNMP, and IPMI 2.0, provides a remote management interface based on HTML5/VNC KVM, and supports CD-free deployment and the Agentless feature to simplify management. • (Optional) Configured with the FusionDirector management software to provide advanced management features such as stateless computing, batch OS deployment, and automated firmware upgrade, enabling smart and automatic entire-lifecycle management.
Operating Systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Citrix XenServer, and VMware ESXi. For details, visit https://www.xfusion.com/en/
Security features	Power-on password, administrator password, and Trusted Platform Module (TPM) 2.0
Operating temperature	5°C to 35°C (41°F to 113°F), compliant with ASHRAE A2
Certification	CE, UL, FCC, CCC, and RoHS, etc.
Installation suite	Adjustable guide rails
Dimensions (H x W x D)	86.1 mm × 447 mm × 890 mm

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