FusionServer V7
Product collection

Introduction

1288H V7 (4 drives)　　　　1288H V7 (8 drives)　　　　1288H V7 (10 drives)

FusionServer 1288H V7 (1288H V7) is a new-generation 1U 2-socket rack server designed for Internet, Internet Data Center (IDC), cloud computing, enterprise applications, and telecom applications. It is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 1288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Features

High-Density Computing Power

- High-Density Computing Power,1U space accommodates 2 x 350 W CPUs and 32 x DDR5 DIMMs.
- Faster Connectivity for Faster Applications, PCIe 5.0 and 400 Gbit/s NIC interconnection are supported.
- High-Speed Flash, Doubling the Performance, 32 x E1.s or 20 x E3.s SSDs provide smaller size and higher density.

High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere.

Efficient Energy Saving

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than the industry average.
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average.
- Intelligent service awareness and dynamic load adjustment: Dynamically adjusts the CPU working frequency based on the actual service load.

Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times.
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

Technical Specifications

Form Factor	1U rack server
Processor	1 or 2 x 4rd Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, with up to 4800 MT/s speed
Local Storage	Supports hot-swappable drives in the following configurations: • 10 x 2.5" drives (6–10 NVMe SSDs and 0–4 SAS/SATA drives, with a total number of 10 or less) • 10 x 2.5" SAS/SATA drives/SSDs (2–4 NVMe SSDs and 6–8 SAS/SATA drives, with a total number of 10 or less) • 10 x 2.5" SAS/SATA drives/SSDs • 8 x 2.5" SAS/SATA drives/SSDs • 4 x 3.5" SAS/SATA drives/SSDs • 32 x E1.s SSDs • 20 x E3.s SSDs* • 2 x M.2 SSDs
RAID	Provides RAID 0, 1, 10, 1E, 5, 50, 6, 60; supports 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. Supports OCP 3.0 NICs. The two FlexIO card slots support two OCP 3.0 NICs, which can be configured as required. Hot swap and PCIe 5.0 is supported.
PCIe Expansion	Provides 5 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 3 x PCIe slots, and 2 slots support PCIe 5.0
Fan Module	Provides 8 x hot-swappable counter-rotating fan modules in N+1 redundancy.
Power Supply	2 x 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 management GE network port, providing comprehensive management features such as fault diagnosis, automatic 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 out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. • It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies and realizes intelligent, automated, visualized, and refined management through the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
Operating Temperature	5ºC to 50ºC (41ºF to 122ºF), compliant with ASHRAE Classes A1, A2, A3, and A4
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	Chassis with 3.5" drives: 43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.) Chassis with 2.5" drives: 43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)

*According to the plan, it will be realized within 2023.

xFusion Digital Technologies Co., Ltd.

Introduction

2288H V7 (8 drives) 2288H V7 (12 drives) 2288H V7 (24 drives) 2288H V7 (25 drives)

The FusionServer 2288 V7 (2288 V7) is a next-generation 2U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprises business, and telecom. The 2288 V7 is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 2288 V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Features

Flexible Computing

- Lightweight Computing Power, Energy Saving and Consumption Reduction, Lower-power fans meet heat dissipation requirements, simplifying the air duct design and enabling fast heat dissipation.
- Streamlined Design, Flexible and Easy Use, Four riser-free standard PCIe slots ensure flexible configuration and tool-free maintenance.

High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere.

Efficient Energy Saving

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than the industry average.
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average.
- Intelligent service awareness and dynamic load adjustment: Dynamically adjusts the CPU working frequency based on the actual service load.

Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times.
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4rd Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 225 W per processor
Chipset	Emmitsburg PCH
Memory	16 x DDR5 DIMMs, delivering up to 4800 MT/s speed
Local Storage	Supports hot-swappable drives in the following configuration options: • 8 to 31 x 2.5" SAS/SATA/SSD drives • 10 to 14 x 3.5" SAS/SATA drives • 4 x NVMe SSDs • Up to 31 x 2.5" drives Supports flash storage: • 2 x M.2 SSDs
RAID	Supports RAID 0, 1, 10, 1E, 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	Expansion capability for multiple types of networks. Supports OCP 3.0 NICs are supported. One FlexIO card slot supports one OCP 3.0 NIC, which can be configured as required.
PCIe Expansion	Up to 8 x PCIe slots 1 x FlexIO expansion slot dedicated for OCP3.0, 1 x expansion slot dedicated for the RAID controller card, and 6 x standard PCIe expansion slots
Heterogeneous Accelerator Card	Up to 4 x 75 W half-height half-length GPU accelerator cards
Fan Module	4 x hot-swappable counter-rotating fans in N+1 redundancy
Power Supply	2 x 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) • 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 to 240 V AC) • 2000 W AC Platinum/Titanium 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 management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. • The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management interface based on HTML5/VNC KVM, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. • It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies and realizes intelligent, automated, visualized, and refined management throughout the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
Operating Temperature	5ºC to 40ºC (41ºF to 104ºF), compliant with ASHRAE Classes A1, A2, A3, and A4
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	Chassis with 3.5" drives: 86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.) Chassis with 2.5" drives: 86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

Introduction

2288H V7 (8 drives)   2288H V7 (12 drives)   2288H V7 (24 drives)   2288H V7 (25 drives)

The FusionServer 2288H V7 (2288H V7) is a new-generation 2U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 2288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Features

Robust Performance

- Up to 350 W CPUs and 32 x DDR5 DIMMs provide strong computing power, based on Intel's latest Sapphire Rapids CPU, Up to 50% Better Overall Performance
- PCIe 5.0 protocol and 17 x standard PCIe slots ensure flexible configuration, 100% Higher PCIe Bandwidth for High-Speed Interconnection
- High-Speed Flash Memory, Diverse Configurations:①34 x NVMe U.2 SSDs,High-speed flash for high performance; ②36 x E1.s or 48 x E3.s SSDs,Smaller size, higher density;③45 x SAS/SATA SSDs,More slots, more cost-effective

High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere.

Efficient Energy Saving

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than the industry average.
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average.
- Intelligent service awareness and dynamic load adjustment: Dynamically adjusts the CPU working frequency based on the actual service load.

Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times.
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

☷ Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4rd Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	32 DDR5 DIMMs, with up to 4800 MT/s speed. Supports memory expansion via CXL with up to 16 x DDR5 or DDR4 DIMM slots; up to 48 x DIMM slots*
Local Storage	Hot-swappable drives with the following configuration options are supported: • 8 to 31 x 2.5" SAS/SATA/SSD drives • 12 to 20 x 3.5" SAS/SATA drives • 4/8/16/24 x NVMe SSDs • 36 x E1.s SSDs or 48 x E3.s SSDs • Up to 45 x 2.5" drives, or 34 x full NVMe SSDs • 2 x M.2 SSDs
RAID	RAID 0, 1, 10, 1E, 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	Expansion capability of multiple types of networks. OCP 3.0 NICs are supported. Both two FlexIO card slots support two OCP 3.0 NICs, which can be configured as required. Hot swap is supported.
PCIe Expansion	Up to 19 x PCIe slots: 2 x FlexIO slots dedicated for OCP 3.0 NICs and 17 x standard PCIe expansion slots, 14 slots support PCIe 5.0
GPU Card	4 x double-width GPU accelerator cards or 14 x single-width GPU accelerator cards
Fan Module	4 x hot-swappable counter-rotating fans in N+1 redundancy

Power Supply	2 x 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)
	• 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 to 240 V AC)
	• 2000 W AC Platinum PSU
	  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 management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. • The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management interface based on HTML5/VNC KVM, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. • It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies and realizes intelligent, automated, visualized, and refined management throughout the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
Operating Temperature	5ºC to 50ºC (41ºF to 122ºF), compliant with ASHRAE Classes A1, A2, A3, and A4
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	Chassis with 3.5" drives: 86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.) Chassis with 2.5" drives: 86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

*According to the plan, it will be realized within 2023.

xFusion Digital Technologies Co., Ltd.

Introduction

Front backplane of the 5288 V7

Rear backplane of the 5288 V7 storage model

The FusionServer 5288 V7 (5288 V7) is a new-generation 4U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for IT core services, virtualization, high-performance computing, distributed storage, big data processing, and other complex workloads. The 5288 V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Features

Ultra-large Storage

- Ultra-large Storage, 44 x 3.5-inch drives + 4 x NVMe U.2 SSDs
- Supreme Computing Power, Up to 350 W CPUs and 32 x DDR5 DIMMs provide strong computing power, based on Intel's latest Sapphire Rapids CPU.
- Flexible Configuration, Up to 10 x standard PCIe expansion slots

High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere.

Efficient Energy Saving

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than the industry average.
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average.
- Intelligent service awareness and dynamic load adjustment: Dynamically adjusts the CPU working frequency based on the actual service load.

Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times.
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

⊟ Technical Specifications

Form Factor	4U rack server
Processor	1 or 2 x 4rd Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, at 4800 MT/s
Local Storage	Hot-swappable drive configurations: • 8 to 48 x 2.5" SAS/SATA drives/SSDs • 24 to 44 x 3.5" SAS/SATA drives • 8 x NVMe SSDs • Support E1.s or E3.s SSDs* Flash storage: • 2 x M.2 SSDs
RAID	RAID 0, 1, 10, 1E, 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	Expansion capability for multiple types of networks OCP 3.0 NICs are supported. The two FlexIO card slots support two OCP 3.0 NICs, which can be configured as required. Hot swap and PCIe 5.0 is supported.
PCIe Expansion	Up to 10 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 10 x PCIe expansion slots, PCIe 5.0 is supported.
GPU Card	10 x FHFL single-width GPU accelerator cards
Fan Module	6 or 8 x hot-swappable counter-rotating fans in N+1 redundancy
Power Supply	2 x 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) • 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 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)
Management	The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. • The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management interface based on HTML5/VNC KVM, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. • It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies and realizes intelligent, automated, visualized, and refined management throughout the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
Operating Temperature	5ºC to 35ºC (41ºF to 95ºF), compliant with ASHRAE Classes A1, A2, A3, and A4
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	Chassis with 3.5" drives: 175 mm × 447 mm × 798 mm (6.89 in. x 17.60 in. x 31.42 in.)

*According to the plan, it will be realized within 2023.

Introduction

G5200 V7

G5200 V7 rear backplane

FusionServer G5200 V7 (G5200 V7) is a new-generation 4U 2-socket GPU server that meets AI requirements of large-capacity storage. Featuring robust performance, high reliability and security, efficient energy saving, simplified management, and easy deployment, it can be used for training and inference workloads and is suitable for voice, image, and video analysis scenarios.

Features

Robust Performance

- Ultra-large storage: up to 32 x 3.5-inch SAS/SATA drives, 4 x NVMe SSDs, and 2 x M.2 SSDs
- Supreme computing power: up to 350 W CPUs based on Intel's latest Sapphire Rapids platform; 4 x FHFL double-width GPU cards; GPU pass-through design eliminates the need of PCIe switches for communication between CPUs and GPUs.
- Flexible expansion: up to 10 x standard PCIe slots and 2 x OCP 3.0 NICs

High Reliability and Security

- Heat pipe based remote heat dissipation technology ensures better temperature adaptation, providing 50% better heat dissipation capability than a single heat sink.
- The innovative AI memory fault self-healing ensures stable system running and reduces system downtime by 66%.
- RoT-based secure boot ensures security everywhere.

Efficient Energy Saving

- Unique algorithm for the lowest power consumption of fans and CPUs: Ensures 5% to 10% lower server power consumption than the industry average.
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average.
- Intelligent service awareness and dynamic load adjustment: Dynamically adjusts the CPU working frequency based on the actual service load.

Intelligent O&M

- Automatic version push and upgrades can be completed without onsite attendance, improving upgrade efficiency by 20 times.
- 75% streamlined deployment steps are performed by tools, improving deployment efficiency by 10 times.
- Takeover of all vendors' servers, automatic asset location identification, and real-time tracking are supported, achieving 100% stocktaking accuracy.

Technical Specifications

Form Factor	4U GPU server
Processor	1 or 2 x 4th Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	32/16 x DDR5 DIMMs, with up to 4800 MT/s speed
Local Storage	Supports hot-swappable drives in the following configurations: • Up to 32 x 3.5-inch SAS/SATA drives • Up to 4 x NVMe SSDs • Support E1,s SSDs* • 2 x M.2 SSDs
RAID	RAID 0, 1, 10, 1E, 5, 50, 6, or 60; Supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
GPU Card	4 x FHFL dual-width GPU cards，10 x single-width GPU cards
Network	Multiple network expansion capabilities; 2 x OCP 3.0 NICs, which can be configured as required and supports orderly hot swap, support PCIe 5.0
PCIe Expansion	Up to 10 x standard PCIe slots, support PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	4 x hot-swappable PSUs in N+N/N+M redundancy • 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) • 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 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)
Management	The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic 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 out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. • Can be configured with the FusionDirector management software to provide advanced management features such as five intelligent technologies, enabling intelligent, automatic, visualized, and refined management through the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
Operating Temperature	5°C to 35°C (41°F to 95°F) (compliant with ASHRAE Class A1/A2/A3)
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 798 mm (6.89 in. x 17.60 in. x 31.42 in.)

Introduction

X6000 V7 （drives）

X6000 V7 （drives）

The FusionServer X6000 V7 is a new-generation 2U high-density server that is rearchitected for serving Internet service provider (ISP) and high-performance computing (HPC) customers to meet their demands on large-scale server deployment. The servers apply to Internet, HPC, cloud computing, and data center applications, as well as software-defined storage (SDS), big data, and software-defined infrastructure (SDI).

Features

Extreme Heat Dissipation, Achieving Peak Computing Power Density

- Houses 8 x 4th Gen Intel® Xeon® Scalable processors in a 2U space with TDP up to 350 W
- Accommodates up to 5 x air-cooled servers (after power supply reconstruction) or up to 18 x liquid-cooled servers in a chassis

Robust Power Supply, Giving a High-Reliability Assurance

- Houses 4 x 3000 W PSUs in a 2U space, the only one in the industry
- Provides PSUs in 2+2 redundancy mode in a 2U space, the only one in the industry
- Supports stable operation of four nodes with one PSU and provides shared backplanes
- Uses 80 PLUS Titanium PSUs that provide a conversion efficiency of up to 96.5%

New-Generation Architecture, Higher Performance and Bandwidth

- Uses new-generation architecture, improving the system performance by up to 59%
- Supports 4 x UPI 2.0 links, increasing the cross-CPU access performance by about 30%
- Provides a maximum memory capacity of 16 TB and DDR5
- Supports PCIe 5.0 full ports, which doubles the network bandwidth

Technical Specifications

Form Factor	2U 4-node chassis
Server Node	4 x 1U half-width 2-socket server nodes
PSU	4 x hot-swappable 1500W, 2000W, or 3000W AC PSUs in 1+1, 3+1, or 2+2 redundancy mode (Configured based on the power consumption of the server and a single PSU.)
Power Supply	100V to 240V AC, 240V DC
Fan Module	4 x hot-swappable 8080++ fan modules in N+1 redundancy mode
Operating Temperature	5ºC to 45ºC (41ºF to 113ºF), compliant with ASHRAE Classes A1 to A4
Certification	CE, UL, FCC, CCC, VCCI, and RoHS
PCIe expansion	A node supports a maximum of four PCIe expansion slots, including one built-in RAID controller card slot, one FlexIO expansion slot dedicated for OCP3.0 NICs, and two standard PCIe expansion slots
Dimensions (H x W x D)	447 mm × 899 mm × 86.1 mm (17.60 in. x 35.39 in. x 3.39 in.)

Introduction

XH321 V7

The FusionServer XH321 V7 is a new-generation 1U half-width 2-socket server node of xFusion, innovatively designed to break through energy constraints and improve system computing power densityIt features powerful heat dissipation, ultra-high computing power density, highly reliable power supply system, and increased performance and bandwidth. It is ideal for multiple application scenarios such as data centers, cloud computing, big data, and the Internet.

Features

High-Density Computing Power and Superior Performance

- Up to 2 x 4th Gen Intel® Xeon® Scalable processors with TDP up to 350W
- Up to 16 x 4800 MT/s DDR5 DIMMs and up to 4096 GB memory capacity
- NVMe SSDs for acceleration and 2+4 balanced configuration, eliminating I/O bottlenecks
- 2 x M.2 SSDs that function as high-speed and reliable OS boot drives

Robust Reliability

- 3000W highly reliable PSUs and hot swap maintenance
- RAID cache and supercapacitors for data protection from power failures

Technical Specifications

Form Factor	1U half-width 2-socket server node
Processor	2 x 4th Gen Intel® Xeon® Scalable processors with 350W TDP per processor
Memory Slot	16 x DDR4/DDR5 DIMM slots, and up to 4096 GB memory (configured with 256 GB DDR5 DIMMs) at 4800 MT/s
Local Storage	Up to 6 x 2.5-inch SAS/SATA/SSD/NVMe drives. NVMe drives support 2+4 balanced configuration Up to 2 x M.2 2280 or 2242 SATA SSDs Mixed configurations of different types of drives
RAID	RAID 0, 1, 5, 6, 10, or 50 and supercapacitor for power failure protection M.2 SSDs in RAID 0, 1, or 5
PCIe Expansion	2 x PCIe 4.0 or PCIe 5.0 x16 half-height half-length (HHHL) expansion slots
OCP Expansion	1 x OCP 3.0 expansion slot, support PCIe 5.0
Management	• The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. • The 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 Agentess for smart and simplified management. • Four compute nodes can be aggregated into one management port to simplify management. • It is optional to configure the FusionDirector management software that provides advanced management functions such as stateless computing, batch OS deployment, and automatic firmware upgrade, realizing intelligent and automatic management throughout the lifecycle.
Supported OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, and Debian
Operating Temperature	5ºC to 45ºC (41ºF to 113ºF), compliant with ASHRAE Classes A1 to A4
Certification	CE, UL, FCC, CCC, VCCI, and RoHS
Dimensions (H x W x D)	218.7 mm x 632 mm x 40.7 mm (8.61 in. x 24.88 in. x 1.60 in.)