Computing Infrastructure Product Manuals



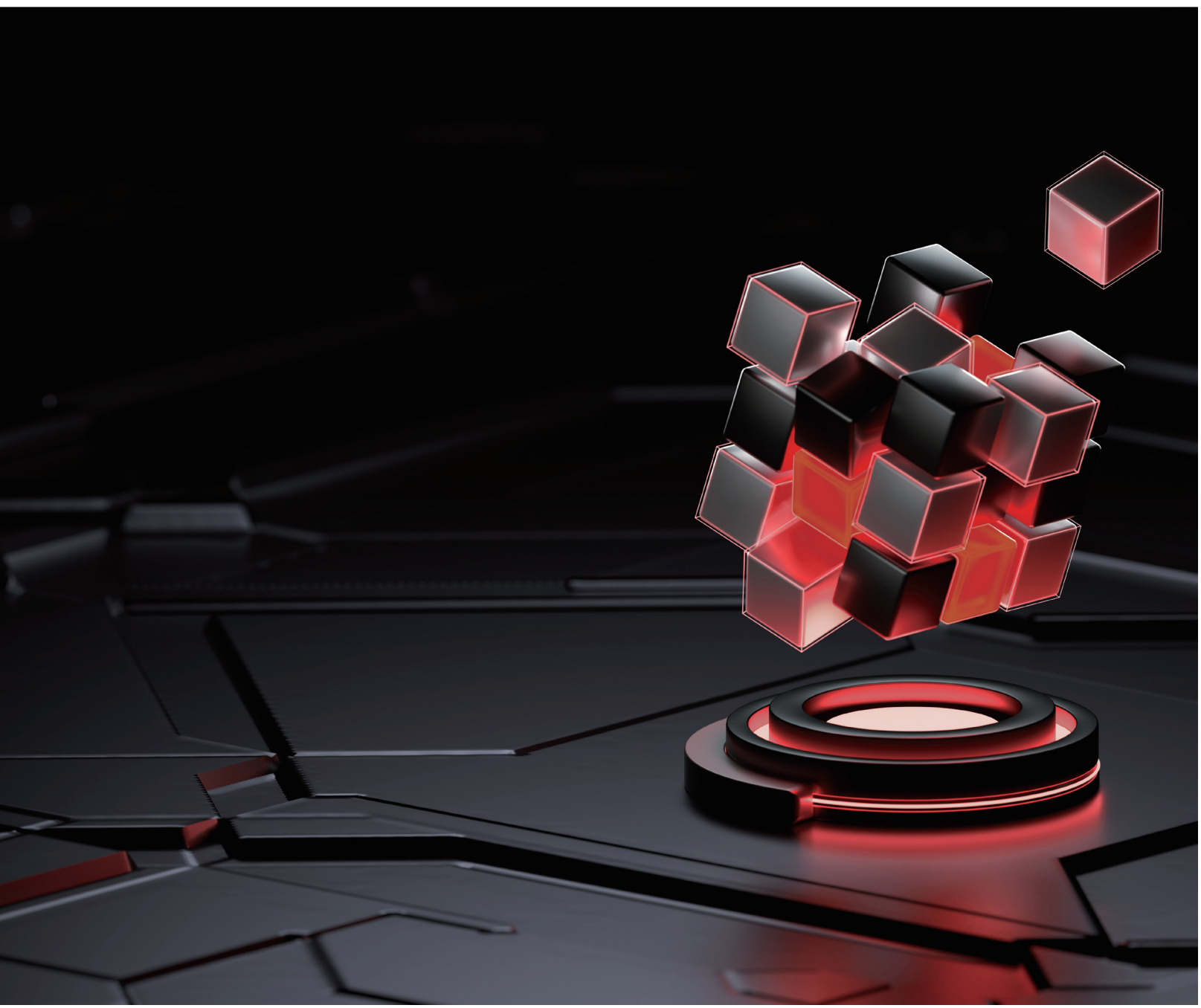
XFUSION INTERNATIONAL PTE. LTD.

About xFusion

XFUSION INTERNATIONAL PTE. LTD. (xFusion) is a leading global provider of computing infrastructure and services. Driven by the vision "Let Computing Serve You Better," xFusion focuses on creating value for its customers and partners, accelerating digital transformation across a wide range of industries. Headquartered in Singapore, xFusion has a substantial global presence, including 10 research centers, 7 regional offices, and 6 Global Technical Assistance Centers (GTACs). xFusion's commitment to providing innovative computing solutions has enabled it to serve over 10,000 customers in more than 100 countries and regions, including the telecom, finance, internet, transportation, and energy sectors.

The xFusion Global Supply Center in Penang, Malaysia, is designed for an annual production capacity of 200,000 servers, encompassing xFusion's complete product portfolio. The center's streamlined logistics and delivery capabilities ensure timely and efficient service to customers worldwide. This strategic location allows xFusion to optimize its operations, guaranteeing the highest quality standards and efficient delivery of its products and services.





Contents



1.Rack Server

FusionServer 1288 V8 · · · 01
FusionServer 2288 V8 · · · 03
FusionServer 2158H V8 · · · 05
FusionServer 2258H V8 · · · 07
FusionServer 1288H V7 · · · 09
FusionServer 2288 V7 · · · 11
FusionServer 2288H V7 · · · 13
FusionServer 2488H V7 · · · 15
FusionServer 5288 V7 · · · 17
FusionServer 5298 V7 · · · 19
FusionServer 5885H V7 · · · 21
FusionServer 1158H V7 · · · 23
FusionServer 1258H V7 · · · 25
FusionServer 2258 V7 · · · 27
FusionServer 2258H V7 · · · 29

2.AI Server

FusionServer G8550 V8 · · · 31
FusionServer G6550 V8 · · · 33
FusionServer G5200 V7 · · · 35
FusionServer G5500 V7 · · · 37
FusionServer G8600 V7 · · · 39

3.Rack-Scale Server

FusionPoD · · · 41
FusionPoD for AI · · · 44
Cooling Distribution Unit · · · 47

4.Portable AI agent development platform

FusionXpark™ · · · 49

5.Management Platform

FusionDirector Unified Computing Infrastructure Management Platform · · · 51

01 Rack Server
FusionServer 1288 V8

Introduction



1288 V8 (10 drives)

The FusionServer 1288 V8 is a next-generation 1U2P rack server specifically designed to meet the demands of virtualization, High-Performance Computing (HPC), and Office Automation (OA).
Its compact design, solid reliability, and ease of management and deployment make it an ideal choice for dealing with business requirements in industries such as Internet, government and enterprise, and finance.

Highlights

Exceptional Computing

- **Compact Deployment:** 1U space for 2 x Intel® Xeon® 6 processors, with up to 144 cores and a maximum TDP of 350 W per processor; 32 x memory slots available for DDR5 DIMMs at up to 6400 MT/s or MRDIMMs at up to 8000 MT/s
- **Fast Storage:** 10 x 2.5" SAS/SATA/NVMe drives, 4 x 3.5" SAS/SATA drives*, or 16 x E3.S SSDs*
- **Powerful Scalability:** 3 x standard PCIe slots at the rear; 5 x standard PCIe slots at the front; supporting PCIe 5.0 and front cabling

Outstanding Security

- **Enhanced Maintenance Efficiency:** quick, precise PCIe link fault diagnosis, boosting efficiency by 50%
- **Reduced System Downtime:** industry-exclusive AI memory self-healing, with precise memory link diagnosis, cutting downtime by 66%

Optimized Energy Efficiency

- **Dynamic Energy Management Technology:** intelligent, non-disruptive tuning based on workloads, achieving peak energy efficiency without rebooting
- **Industry-Leading Power Technology:** 97% power conversion efficiency, driven by three core innovations, setting the benchmark

*Configuration details are subject to the technical white paper

Technical Specifications

Form Factor	1U rack server
Processor	2 x Intel® Xeon® 6700P/6500P/6700E processors, each with up to 350 W TDP
Memory	32 x memory slots available for DDR5 DIMMs at up to 6400 MT/s or MRDIMMs at up to 8000 MT/s
Local Storage	Hot-swappable drive configurations: - 8/10 x 2.5" SAS/SATA/NVMe drives - 4 x 3.5" SAS/SATA drives* - 16 x E3.S SSDs* - 2 x M.2 SSDs, supporting hardware RAID
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	2 x hot-swappable OCP 3.0 NICs, supporting PCIe 5.0, NCSI, and multi-host
PCIe Expansion	Rear: 3 x standard PCIe slots; front: 5 x standard PCIe slots; supporting PCIe 5.0 and front cabling
Fan	8 x hot-swappable counter-rotating fans in N+1 redundancy
PSU	900 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
Management	- The iBMC chip integrates one dedicated management GE 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, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. - It is optional to configure FusionDirector that enables intelligent, automatic, visualized, and refined management throughout the server lifecycle.
OS	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Class A1/A2/A3/A4
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	43 mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.)

*Configuration details are subject to the technical white paper

01 Rack Server FusionServer 2288 V8

Introduction



2288 V8 (front cable routing)



2288 V8 (24 drives)

The FusionServer 2288 V8 is a next-generation 2U2P rack server tailored to meet the demands of AI inference, cloud computing, virtualization, High-Performance Computing (HPC), graphics processing, VDI, and big data analytics.

Offering low power consumption, unmatched scalability, solid reliability, and ease of management and deployment, the 2288 V8 is an ideal choice for addressing massive workloads in industries such as Internet, telecom, government and enterprise, finance, and manufacturing.

Highlights

Supreme Computing

- **Power-Packed Performance:** 2 x Intel® Xeon®6 6700P/6500P/6700E series processors
- **Exceptional Scalability:** 10 x standard PCIe slots and 2 x OCP 3.0 slots at the rear; 3 x standard PCIe slots at the front; supporting PCIe 5.0 and front cabling
- **High-speed flash memory and diverse configurations:** (1) Up to 20 x 3.5" drives; (2) Up to 33 x 2.5" drives; (3) Up to 36 x E3.s SSDs*

Outstanding Security

- **Enhanced Maintenance Efficiency:** Quick, precise PCIe link fault diagnosis, boosting efficiency by 50%
- **Reduced System Downtime:** Industry-exclusive AI memory self-healing, with precise memory link diagnosis, cutting downtime by 66%

Optimized Energy Efficiency

- **Dynamic Energy Management:** Intelligent, non-disruptive tuning based on work-loads, achieving peak energy efficiency without rebooting
- **Industry-Leading Power Supply:** 97% power conversion efficiency, driven by three core innovations, setting the benchmark

*Configuration details are subject to the technical white paper

Technical Specifications

Form Factor	2U Rack Server
Processor	2 x Intel® Xeon®6 6700P/6500P/6700E Scalable processors with TDP 350W per processor
Memory	32 x memory slots available for DDR5 DIMMs at up to 6400 MT/s or MRDIMMs at up to 8000 MT/s
Local Storage	Hot-swappable drives configurations: - Up to 20 x 3.5" drives* - Up to 33 x 2.5" drives* - Up to 36 x E3.s SSDs* Flash storage: 2 x M.2 SSDs, hardware RAID, and hot swap
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
Network	Multiple network expansion capabilities; 2 x FlexIO card slots dedicated for OCP 3.0 NICs, which can be configured as required; supporting hot swap and PCIe 5.0
PCIe Expansion	Rear: 10 x standard PCIe slots and 2 x OCP 3.0 slots; front: 3 x standard PCIe slots; supporting PCIe 5.0 and front cabling
GPU Card	4 x dual-width GPU cards*
Fan	4 or 6 x hot-swappable counter-rotating fans in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle
OS	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

*Configuration details are subject to the technical white pape

01 Rack Server
FusionServer 2158H V8

Introduction



2158H V8 (8 drives)



2158H V8 (12 drives)



2158H V8 (24 drives)

FusionServer 2158H V8 (2158H V8) is a next-generation 2U, 1-socket rack server tailored for various applications including SDS, VDI, CDN, virtualization, big data, databases, cloud environments, AI inference, small businesses, office automation, and web services. It effectively addresses the needs of enterprise or telecom service applications, along with other demanding workloads. The 2158H V8 offers exceptional performance, robust scalability, and dependable reliability, along with easy deployment and simplified management.

Highlights

Powerful Performance

- 1 AMD 4th-Gen EPYC™ 9004 (Geona) or 5th-Gen EPYC™ 9005 series (Turin) 192-core processor with up to 500 W TDP and 12 DDR5 DIMMs
- Support for PCIe 5.0, 10 full-height standard PCIe slots and 2 OCP 3.0 slots, realizing 100% PCIe bandwidth improvement and high-speed interconnections
- High-speed flash and diverse configurations: SAS/SATA/NVMe/M.2 drives

Solid Reliability and Security

- Heat pipe based remote heat sink, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability by 50%
- Automatic fault information collection upon CPU failure, enabling quick fault location
- RoT-based secure boot

Optimized Efficiency and Energy Saving

- A unique algorithm designed to minimize power usage of fans and CPUs, resulting in higher energy savings than the industry average
- Three advanced power supply technologies incorporated to enhance power supply and efficiency, enable an industry-leading power conversion rate, and deliver power loss 12.5% lower than the average
- Intelligent service awareness and dynamic CPU clock speed adjustment based on actual service loads

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	1 x 4th Gen AMD EPYCTM 9004 (Genoa) or 5th-Gen EPYC™ 9005 series (Turin) processor with up to 500 W TDP per processor
Memory	12 x DDR5 DIMMs, delivering up to 6400 MT/s
Local Storage	Hot-swappable and flexible drive configurations: - 8 x 2.5" SAS/SATA/NVMe drives - 8 x 3.5" SAS/SATA/NVMe drives - 12 x 3.5" SAS/SATA/NVMe drives - 24 x 2.5" drives (16 x NVMe drives + 8 x SAS/SATA drives) - 2 x M.2 SSDs (SAS/SATA)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitor for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	2 x OCP 3.0 NICs, which can be configured as required; support hot swap and PCIe 5.0
PCIe Expansion	10 x PCIe expansion slots; support PCIe 5.0
GPU Card	4 x dual-width GPU cards and 1 x dual-width DPU card
Fan Module	Four 80 x 80 or six 60 x 60 hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	2 x PSUs in 1+1 redundancy: - 900 W/1500 W/2000 W Platinum AC PSUs - 900 W/2000 W/3000 W Titanium AC PSUs - 1200 W -48 V DC PSUs - 1500 W 380 V high-voltage DC PSUs
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle.
OS	xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu
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 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

01 Rack Server
FusionServer 2258H V8

Introduction



2258H V8

The FusionServer 2258H V8 is a next-generation 2U2P rack server designed to meet the demands of High-Performance Computing (HPC), Internet Data Center (IDC), and cloud computing.Featuring low energy consumption, exceptional scalability, proven reliability, and ease of management and deployment, the 2258H V8 is the perfect choice for IT core operations in Internet and telecom.

Highlights

Powerful Performance

- 2 AMD 5th-Gen EPYC™ 9005 series (Turin) 192-core processor with up to 500 W TDP and 24 DDR5 DIMMs
- Support for PCIe 5.0, 10 full-height standard PCIe slots and 2 OCP 3.0 slots, realizing 100% PCIe bandwidth improvement and high-speed interconnections
- High-speed flash and diverse configurations: SAS/SATA/NVMe/M.2 drives

Solid Reliability and Security

- Heat pipe based remote heat sink, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability by 25%
- Automatic fault information collection upon CPU failure, enabling quick fault location
- FIPS, delivering robust data protection and encryption for sensitive information

Optimized Efficiency and Energy Saving

- A unique algorithm designed to minimize power usage of fans and CPUs, resulting in higher energy savings than the industry average
- Three advanced power supply technologies incorporated to enhance power supply and efficiency, enable an industry-leading power conversion rate, and deliver power loss 12.5% lower than the average
- MPC-PID 2.0 for efficient and energy-saving cooling

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	2 x5th-Gen EPYC™ 9005 series (Turin) processor with up to 500 W TDP per processor
Memory	24 x DDR5 DIMMs, delivering up to 6400 MT/s
Local Storage	Hot-swappable and flexible drive configurations: - 8 x 2.5" SAS/SATA drives - 8/16/24 x SAS/SATA/NVMe drives* - 8 x 2.5“ NVMe drives, Support hard raid* - 8 x 3.5" SAS/SATA/NVMe drives - 2 x M.2 SSDs (SAS/SATA)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitor for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	2 x OCP 3.0 NICs, which can be configured as required; support hot swap and PCIe 5.0
PCIe Expansion	10 x PCIe expansion slots; support PCIe 5.0
Fan Module	Four 80 x 80 hot-swappable counter-rotating fan modules in N+1 redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle.
OS	xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu
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 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, CCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

*: The specification is scheduled to be supported on October 30, 2025.

01 Rack Server
FusionServer 1288H V7

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 the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for IT core services, virtualization, scientific computing, distributed storage, and other complex workloads. The 1288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights

High-Density Computing Power

- High-density computing power: 2 x 385 W CPUs and 32 x DDR5 DIMMs in 1U space
- Faster connectivity for faster applications: PCIe 5.0 and 400 Gbit/s NIC interconnection

High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	1U rack server
Processor	1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with TDP up to 385 W per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, with up to 5600 MT/s speed
Local Storage	Hot-swappable drive configurations: - 8 to 12 x 2.5" SAS/SATA drives/SSDs - 4 x 3.5" SAS/SATA drives/SSDs Flash storage: dual 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
Network	Multiple network expansion capabilities; 2 x FlexIO card slots dedicated for OCP 3.0 NICs, which can be configured as required; supporting hot swap and PCIe 5.0
PCIe Expansion	5 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 3 x PCIe slots, and 1 slots supporting PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, 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 bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4
Certification	CE, NRTL, 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: 43mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.) Chassis with 2.5" drives: 43mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.)

01 Rack Server FusionServer 2288 V7

Introduction



2288 V7 (8 drives)



2288 V7 (12 drives)



2288 V7 (24 drives)



2288 V7 (25 drives)

FusionServer 2288 V7 (2288 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, scientific 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.

Highlights

Flexible Computing

- Lightweight computing power and energy saving and consumption reduction: Lower-power fans meet heat dissipation requirements, simplifying the air duct design and enabling fast heat dissipation
- Streamlined design and flexible and easy use: Four riser-free standard PCIe slots ensure flexible configuration and tool-free maintenance

High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with TDP up to 225 W per processor
Chipset	Emmitsburg PCH
Memory	16 x DDR5 DIMMs, with up to 4800 MT/s speed
Local Storage	Hot-swappable drive configurations: - 8 to 31 x 2.5" SAS/SATA drives/SSDs (up to 31 x 2.5" drives) - 10 to 14 x 3.5" SAS/SATA drives - 4 x NVMe SSDs Flash storage: dual 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
Network	Multiple network expansion capabilities 1 x FlexIO card slot dedicated for 1 x OCP 3.0 NIC, which can be configured as required
PCIe Expansion	Up to 8 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC, 1 x slot dedicated for the RAID controller card, and 6 x standard PCIe slots
GPU Card	up to 4 x 75 W half-height half-length GPU cards
Fan Module	4 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, 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 bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1/A2/A3
Certification	CE, NRTL, 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.)

01 Rack Server
FusionServer 2288H V7

Introduction



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

FusionServer 2288H V7 (2288H V7) is a new-generation 2U 2-socket rack server designed for SDS, VDI, CDN, virtualization, big data, database, cloud scenarios, accelerated computing inference, small enterprises, OA, and web applications, meeting requirements of enterprise or telecom service applications and other complex workloads. The 2288H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights

Robust Performance

- 4th or 5th Gen Intel® Xeon® Scalable processors with 385 W TDP per processor, and 32 x DDR5 DIMMs, providing 50% better overall performance
- PCIe 5.0 protocol and 17 x standard PCIe slots ensure flexible configuration, allowing 100% higher PCIe bandwidth for high-speed interconnection
- High-speed flash memory and diverse configurations: (1) 28 x NVMe U.2 SSDs, high-speed flash for high performance; (2) 45 x SAS/SATA SSDs, more slots, more cost-effective

High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with TDP up to 385 W per processor
Chipset	Emmitsburg PCH
Memory	32 x 5600 MT/s DDR5 DIMMs and 16 x DDR5 or DDR4 DIMMs supported by the CXL technology; up to 48 x DIMMs*
Local Storage	Hot-swappable drives configurations: - 8 to 33 x 2.5" SAS/SATA drives/SSDs (up to 45 x 2.5" drives or 28 x NVMe SSDs*) - 12 to 18 x 3.5" SAS/SATA drives - 4/8/16/24 x NVMe SSDs Flash storage: 2 x M.2 SSDs, hardware RAID, and hot swap
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
Network	Multiple network expansion capabilities; 2 x FlexIO card slots dedicated for OCP 3.0 NICs, which can be configured as required; supporting hot swap and PCIe 5.0
PCIe Expansion	Up to 19 x PCIe slots*, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 17 x standard PCIe slots*, 8 slots of which support PCIe 5.0
GPU Card	4 x dual-width or 14 x single-width GPU cards*
Fan Module	4 x hot-swappable counter-rotating fans in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, 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 bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 50°C (41°F to 122°F), compliant with ASHRAE Classes A1/A2/A3/A4
Certification	CE, NRTL, 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.)

*Configuration details are subject to the technical white paper

01 Rack Server
FusionServer 2488H V7

Introduction



2488H V7 (8 drives)



2488H V7 (12 drives)



2488H V7 (25 drives)

FusionServer 2488H V7 (2488H V7) is a 2U 4-socket rack server designed for the Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for various applications, such as databases, virtualization, and in-memory computing. The 2488H V7 features high-performance computing, large-capacity storage, low power consumption, high reliability, easy management and deployment, and high virtualization application density.

Highlights

High Efficiency, Stability, and Scalability

- 4 x 4th Gen Intel® Xeon® Scalable processors in 2U space, up to 60 x cores and 120 x threads per processor, with TDP up to 350 W
- Up to 64 x DDR5 DIMMs, delivering up to 16 TB total memory capacity (calculated based on a maximum of 256 GB capacity per DDR5 memory module) and featuring high speed and availability
- Up to 25 x 2.5" drives
- Up to 8 x 2.5" NVMe SSDs, improving storage density and I/O performance
- Up to 9 x standard expansion slots
- 1 x GE/10GE/25GE/100GE OCP 3.0 NIC that supports orderly hot swap

High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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.
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	2 or 4 x 4th Gen Intel® Xeon® Scalable processors with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	64 x DDR5 DIMMs
Local Storage	Hot-swappable drives configurations: - 8 x front 2.5" SAS/SATA drives - 25 x front 2.5" SAS/SATA drives - 4 x front 2.5" SAS/SATA drives and 8 x NVMe SSDs Flash storage:2 x M.2 SSDs, supporting hardware RAID
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
Network	Multiple network expansion capabilities 1 x OCP 3.0 NIC, supporting hot swap
PCIe Expansion	Up to 10 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC and 9 x standard PCIe slots
Fan Module	6 x hot-swappable counter-rotating fans in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4
Certification	CE, NRTL, 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 2.5" drives: 86.1 mm x 447 mm x 898 mm (3.39 in. x 17.60 in. x 35.35 in.)

01 Rack Server
FusionServer 5288 V7

Introduction



Front backplane of the 5288 V7 (24 drives)



Rear backplane of the 5288 V7

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, 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.

Highlights

Ultra-large Storage

- Ultra-large storage: 44 x 3.5" drives and 4 x NVMe U.2 SSDs
- Supreme computing power: 4th or 5th Gen Intel® Xeon® Scalable processors with 385 W TDP per processor, and 32 x DDR5 DIMMs
- Flexible expansion: up to 12 x standard PCIe slots

High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	4U rack server
Processor	1 or 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, with up to 5600 MT/s speed
Local Storage	Hot-swappable drives configurations: - 4 x 2.5" SAS/SATA drives/SSDs - 24 to 44 x 3.5" SAS/SATA drives - 4 x NVMe SSDs Flash storage: dual 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
Network	Multiple network expansion capabilities; 2 x FlexIO slots dedicated for 2 x OCP 3.0 NICs, which can be configured as required; supporting hot swap and PCIe 5.0
PCIe Expansion	Up to 12 x PCIe slots, including 2 x FlexIO slots dedicated for OCP 3.0 NICs and 10 x PCIe slots, and supporting PCIe 5.0
GPU Card	8 x single-width GPU cards*
Fan Module	6 or 8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, 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 bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 35°C (41°F to 95°F), compliant with ASHRAE Classes A1/A2
Certification	CE, NRTL, 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.)

*Configuration details are subject to the technical white paper

01 Rack Server
FusionServer 5298 V7

Introduction



Front panel



Rear panel

FusionServer 5298 V7 (5298 V7) is a versatile new-generation 4U 2-socket rack server tailor-made to meet the diverse needs of industries such as the Internet, telecoms, finance, and government enterprises. With its broad range of applications, the 5298 V7 excels in distributed storage as well as warm and cold storage for big data, backup, and archiving. Boasting massive storage capacity, low power consumption, solid reliability, streamlined management, and effortless deployment, the 5298 V7 sets a new benchmark for server excellence.

Highlights

Oceanic Storage

- Unrivaled storage capacity: up to 60 x 3.5" SAS/SATA drives, reducing TCO by over 30%
- Exceptional computing: 4th/5th Gen Intel® Xeon® Scalable processors with up to 385 W TDP and support for 32 x DDR5 DIMMs
- Flexible expansion: up to 6 x PCIe expansion slots

Trusted Security

- Advanced Extended Volume Air Cooling (EVAC): reliable cooling with enhanced temperature adaptability, boasting a 50% increase in individual heat sink
- Industry-exclusive memory fault self-healing: stable system running with a remarkable 66% reduction in system crash rates
- Root of Trust (RoT)-based secure boot: security embedded at every level for comprehensive protection

Efficient Power

- Unique algorithm for the lowest power consumption of fans and CPUs: up to 8% higher energy efficiency compared to the industry standard
- Three core technologies: tailored to elevate power and efficiency, boasting 12.5% lower power loss compared to industry norms and leading the industry in power conversion rates
- Intelligent service sensing: dynamic adjustment of CPU frequencies based on actual business loads, optimizing energy consumption

Intelligent O&M

- Seamless version updates: automated updates without any manual intervention, increasing update efficiency by 20 times
- Tool-driven deployment: 75% tool integration for streamlined deployment processes, boosting deployment efficiency by 10 times
- Unified server management: effortless management of servers from various vendors, achieving automatic asset identification, real-time tracking, and 100% inventory accuracy

Technical Specifications

Form Factor	4U rack server
Processor	2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, with up to 5600 MT/s speed
Local Storage	Various drive configurations with hot-swappable capability: - 10 x 2.5" SAS/SATA drives* - 60 x 3.5" SAS/SATA drives - 8 x NVMe SSDs - Dual 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 settings
Network	2 x FlexIO slots dedicated for 2 x OCP 3.0 NICs, allowing for on-demand selection and hot swap
PCIe Expansion	Up to 6 x PCIe expansion slots, including one dedicated for the RAID controller card and 2 x FlexIO expansion slots dedicated for OCP 3.0 NICs, and supporting PCIe 5.0
Fan Module	• Computing area: 8 x hot-swappable counter-rotating fan modules in N+1 redundancy • Storage area: 4 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy
Management	• The Intelligent Baseboard Management Controller (iBMC) chip integrates one dedicated management GE network port, providing comprehensive management features such as 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 user interface based on HTML5/VNC KVM, and supports out-of-band management functions such as monitoring, diagnosis, configuration, agentless management, and remote control, simplifying management complexity. • Optional FusionDirector management software offers five intelligent management features for 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, Trusted Cryptography Module (TCM), security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped and adjustable guide rails
Dimensions (H x W x D)	175 mm x 447 mm x 850 mm (6.89 in. x 17.60 in. x 33.46 in.)

*Configuration details are subject to the technical white paper

01 Rack Server
FusionServer 5885H V7

Introduction


5885H V7
(8 drives)


5885H V7
(12 drives)


5885H V7
(24 drives)


5885H V7
(25 drives)


5885H V7
(50 drives)


5885H V7
(36 E1.S drives)

FusionServer 5885H V7 (5885H V7) is a 4U 4-socket rack server designed for the Internet Data Center (IDC), cloud computing, enterprise business, and telecom. It is also ideal for various applications, such as databases, virtualization, and in-memory computing. The 5885H V7 features high-performance computing, large-capacity storage, low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights

High Efficiency, Stability, and Scalability

- 4 x new-generation Intel® Xeon® Scalable processors (Sapphire Rapids) in 4U space, up to 60 x cores and 120 x threads per processor, with TDP up to 350 W
- Up to 64 x DDR5 DIMMs, delivering up to 16 TB total memory capacity (calculated based on a maximum of 256 GB capacity per DDR5 memory module) and featuring high speed and availability
- Up to 52 x 2.5" drives
- Up to 24 x 2.5" NVMe SSDs, improving storage density and I/O performance
- Up to 21 x standard expansion slots
- 1 x GE/10GE/25GE/100GE OCP 3.0 NIC that supports orderly hot swap

Reliability and Security

- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	4U rack server
Processor	2 or 4 x 4th Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	64 x DDR5 DIMMs
Local Storage	Hot-swappable drives configurations: - 8, 24, 25, or 50 x front 2.5" SAS/SATA drives - 4 x front 2.5" SAS/SATA drives and 8 x NVMe SSDs - 24 x front NVMe SSDs - 25 x front 2.5" SAS/SATA drives and 24 x front NVMe SSDs - 36 x front E1.S SSDs - Up to 52 x 2.5" drives Flash storage: Flash storage:2 x M.2 SSDs, supporting hardware RAID
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
Network	Multiple network expansion capabilities: 1 x OCP 3.0 NIC, supporting hot swap
PCIe Expansion	Up to 22 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC and 21 x standard PCIe slots
GPU Card	4 x dual-width GPU cards; 14 x single-width GPU cards
Fan Module	6 or 8 x hot-swappable fan modules in N+1 redundancy
PSU	900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 2+2 redundancy
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, enabling intelligent, automatic, 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 bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4
Certification	CE, NRTL, 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 2.5" drives: 175 mm x 447 mm x 898 mm (6.89 in. x 17.60 in. x 35.35 in.)

01 Rack Server
FusionServer 1158H V7

Introduction



1158H V7 (10 drives)

FusionServer 1158H V7 (1158H V7) is a new-generation 1U 1-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. The 1158H V7 is ideal for IT core services, virtualization, high-performance computing (HPC), and other complex workloads. The 1158H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights

High Computing Density

- High computing density: 1 x 400 W CPUs with highest specifications and 24 x DDR5 DIMMs in a 1U space
- Fast interconnections boosting applications: PCIe 5.0 and 400 Gbit/s interconnections between NICs
- High-speed flash multiplying performance: 10 x 2.5" SAS/SATA drives/NVMe SSDs

Solid Reliability and Security

- Heat pipe remote heat dissipation technology, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability of a single heat sink by 50%
- Automatically collect fault information when the CPU crashes to support quick fault location
- RoT-based secure boot

Efficient Energy Saving

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with the industry average
- Three core power supply technologies used to improve supply power and efficiency and enable the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic CPU clock speed adjustment based on actual service loads

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	1U rack server
Processor	1 x 4th Gen AMD® EPYC 9004 Series processors (Genoa) with up to 400 W TDP per processor
Memory	24 x DDR5 DIMMs slots, delivering up to 4800 MT/s
Local Storage	Hot-swappable and flexible drive configurations: • 10 x 2.5" SAS/SATA drives/SSDs (up to 4 x NVMe SSDs or 8 x SAS/SATA drives) • 10 x 2.5" SAS/SATA/NVMe drives/SSDs • 2 x M.2 SSDs (SATA/NVMe)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitor for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	2 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0
PCIe Expansion	5 x PCIe expansion slots, including 2 x FlexIO expansion slot dedicated for an OCP 3.0 NIC and 3 x standard PCIe slots, one of which supports PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W Platinum/Titanium hot-swappable power supply, 1500W/2000W Platinum power supply, supports 1+1 redundancy
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, enabling an intelligent, automatic, 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	5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)

01 Rack Server
FusionServer 1258H V7

Introduction



1258H V7 (4 drives)



1258H V7 (10 drives)

FusionServer 1258H V7 (1258H V7) is a new-generation 1U 2-socket rack server designed for the Internet, Internet Data Center (IDC), cloud computing, enterprise business, and telecom. The 1258H V7 is ideal for IT core services, virtualization, high-performance computing (HPC), and other complex workloads. The 1258H V7 features low power consumption, high scalability and reliability, easy deployment, and simplified management.

Highlights

High Computing Density

- High computing density: 2 x 400 W CPUs with highest specifications and 24 x DDR5 DIMMs in a 1U space
- Fast interconnections boosting applications: PCIe 5.0 and 400 Gbit/s interconnections between NICs
- High-speed flash multiplying performance: 10 x 2.5" SAS/SATA drives/NVMe SSDs

Solid Reliability and Security

- Heat pipe remote heat dissipation technology, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability of a single heat sink by 50%
- Automatically collect fault information when the CPU crashes to support quick fault location
- RoT-based secure boot

Optimum Efficiency and Energy Saving

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with the industry average
- Three core power supply technologies used to improve supply power and efficiency and enable the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic CPU clock speed adjustment based on actual service loads

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	1U rack server
Processor	1 or 2 x 4th Gen AMD® EPYC 9004 Series processors (Genoa) with up to 400 W TDP per processor
Memory	12 or 24 x DDR5 DIMMs slots, delivering up to 4800 MT/s
Local Storage	Hot-swappable and flexible drive configurations: • 10 x 2.5" SAS/SATA drives/SSDs, including 2 to 4 x NVMe SSDs and 6 to 8 x SAS/SATA drives • 10 x 2.5" SAS/SATA drives/SSDs • 8 x 2.5" SAS/SATA drives/SSDs • 4 x 3.5" SAS/SATA drives • 32 x E1.s drives* • 20 x E3.s drives* • 2 x M.2 SSDs (SATA/NVMe)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitor for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0
PCIe Expansion	4 x PCIe expansion slots, including 1 x FlexIO expansion slot dedicated for an OCP 3.0 NIC and 3 x standard PCIe slots, one of which supports PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W Platinum/Titanium hot-swappable power supply, 1500W/2000W Platinum power supply, supports 1+1 redundancy
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, enabling an intelligent, automatic, 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	5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	43.5 mm x 447 mm x 798 mm (1.71 in. x 17.60 in. x 31.42 in.)

01 Rack Server
FusionServer 2258 V7

Introduction



2258 V7 (8 drives)



2258 V7 (12 drives)



2258V7(16 drives)



2258 V7 (24 drives)

FusionServer 2258 V7 (2258 V7) is a new-generation 2U 2-socket rack server designed for SDS, VDI, CDN, virtualization,big data, DB, cloud scenarios, AI inference, small enterprises, OA, and web applications, meeting requirements of enterprise or telecom service applications and other complex workloads. The 2258 V7 features robust performance, solid scalability and reliability, easy deployment, and simplified management.

Highlights

Robust Performance

- 2 x 4th Gen AMD EPYCTM 9004 Series processors (Genoa) at up to 400 W TDP and 24 x DDR5 DIMMs
- PCIe 5.0 protocol and 8 x full-height standard PCIe expansion slots for more flexible configuration, improving the PCIe bandwidth by 100% and realizing high-speed interconnection
- High-speed flash and diverse configurations:
  - 24 x NVMe U.2 SSDs for high-speed flash and super performance
  - 25 x SAS/SATA SSDs for flexible configuration and high-speed I/O
  - 16 x SATA HDDs directly connected to CPUs for higher cost effectiveness

Solid Reliability and Security

- Heat pipe remote heat dissipation technology, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability of a single heat sink by 50%
- Automatically collect fault information when the CPU crashes to support quick fault location
- RoT-based secure boot, ensuring all-round security

Optimum Efficiency and Energy Saving

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with the industry average
- Three core power supply technologies used to improve supply power and efficiency and enable the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic CPU clock speed adjustment based on actual service loads

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4th Gen AMD EPYC™ 9004 Series processors (Genoa) with up to 400 W TDP per processor
Memory	12 or 24 x DDR5 DIMM slots, delivering up to 4800 MT/s
Local Storage	Hot-swappable and flexible drive configurations: • 8 x 2.5" SAS/SATA drives • 12 to 16 x 3.5" SAS/SATA drives • 24 x NVMe SSDs • 12 x 2.5" drives (including 8 x NVMe drives) Flash storage: • 2 x M.2 SSDs (SATA/NVMe)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0
PCIe Expansion	1 x FlexIO expansion slot dedicated for an OCP 3.0 NIC; 8 x FH standard PCIe expansion slots, including 4 x PCIe 5.0 slots
GPU Card	2 x dual-width GPU cards or 8 x single-width GPU cards
Fan Module	4 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W/2000W Platinum/Titanium hot-swappable power supply, 1500W Platinum power supply, 3000W Titanium power supply, supports 1+1 redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle.
OS	Fusion OS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu
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 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

01 Rack Server
FusionServer 2258H V7

Introduction



2258H V7 (8 drives)



2258H V7 (12 drives)

FusionServer 2258H V7 (2258H V7) is a new-generation 2U 2-socket rack server designed for SDS, VDI, CDN,virtualization, big data, DB, cloud scenarios, AI inference, small enterprises, OA, and web applications, meeting requirements of enterprise or telecom service applications and other complex workloads. The 2258H V7 features low power consumption, solid scalability and reliability, easy deployment, and simplified management.

Highlights

Robust Performance

- 2 x 4th Gen AMD EPYCTM 9004 Series processors (Genoa) at up to 400 W TDP and 24 x DDR5 DIMMs
- PCIe 5.0 protocol for more flexible configurations, improving the PCIe bandwidth by 100% and realizing high- speed interconnection
- High-speed flash and diverse configurations: 12 x SAS/SATA and 4 x NVMe U.2 SSDs for high-speed flash and super performance
- 16 x DDR4/DDR5 DIMMs supported by CXL 1.1
- 4 x dual-width GPU cards

Solid Reliability and Security

- Heat pipe remote heat dissipation technology, ensuring reliable heat dissipation and stronger temperature adaptation and improving the heat dissipation capability of a single heat sink by 50%
- Automatically collect fault information when the CPU crashes to support quick fault location
- RoT-based secure boot, ensuring all-round security

Optimum Efficiency and Energy Saving

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with the industry average
- Three core power supply technologies used to improve supply power and efficiency and enable the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic CPU clock speed adjustment based on actual service loads

Intelligent O&M

- Automatic version push and contactless upgrades, improving upgrade efficiency by 20 times
- 75% tool-based deployment, improving deployment efficiency by 10 times
- Takeover of all vendors' servers, automatic asset locating, real-time tracking, and 100% accuracy of asset stocktaking

Technical Specifications

Form Factor	2U rack server
Processor	1 or 2 x 4th Gen AMD EPYC™ 9004 Series processors (Genoa) with up to 400 W TDP per processor
Memory	12 or 24 x 4800 MT/s DDR5 DIMMs and 16 x DDR4/DDR5 DIMMs supported by CXL 1.1
Local storage	Hot-swappable and flexible drive configurations: • 8 x 2.5" SAS/SATA drives •12 x 3.5" SAS/SATA drives (including 4 x NVMe drives) Flash storage: • 2 x M.2 SSDs (SATA/NVMe)
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitor for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0
PCIe Expansion	1 x FlexIO slot dedicated for an OCP 3.0 NIC; up to 5 x full-height PCIe slots and 4 x dual-width PCIe 5.0 slots
GPU Card	4 x dual-width GPU cards
CXL Expansion	4 x CXL 1.1 cards, with memory expansion up to 16 x DDR5 DIMMs; up to 16 x DDR4 DIMMs*
Fan Module	4 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	900W Platinum/Titanium hot-swappable power supply, 1500W Platinum power supply, 3000W Titanium power supply, 2000W Platinum power supply, supports 1+1 redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle.
OS	xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu
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 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4
Certification	CE, NRTL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped, adjustable, and holding rails
Dimensions (H x W x D)	86.1 mm x 447 mm x 798 mm (3.39 in. x 17.60 in. x 31.42 in.)

02 AI Server
FusionServer G8550 V8

Introduction



G8550 V8

The FusionServer G8550 V8 is our next-generation, flagship air-cooled AI server designed to conquer the diverse and demanding workloads of large-model training and inference.

Engineered for peak performance, rock-solid reliability, effortless deployment, and simplified maintenance, the G8550 V8 supercharges AI training and inference, HPC, video/image analytics, and intensive database applications.

With its highly flexible configuration options, it seamlessly adapts to both enterprise data centers and public cloud environments, empowering your business across every computing scenario.

Highlights

Powerful Performance

- **Outstanding CPU Power:** 2 x 5th Gen AMD EPYC™ 9005 Series (Turin) processors, 500 W TDP per CPU
- **Ultimate Training & Inference Power:** 20 x dual-width GPUs, 600 W TDP per GPU

Pioneering Architecture

- **Modular Design:** high convergence and low coupling across modules, allowing for flexible reconfiguration and independent evolution
- **Ultra-Robust Power Supply:** 8 x 3.2 kW 12 V dual-input PSUs in N+1 redundancy, with an expandable power capacity of up to 28.2 kW, fully backward-compatible with single-input power specifications
- **Advanced Air Cooling:** three isolated airflow zones with intelligent airflow control for key components — proven by over 1,000 hours of rigorous stability testing

Agile O&M

- **Toolless & Chassis-in-Rack:** slide-out and blind-mate, effortless hot-swapping for key modules
- **Flexible Topology:** multi-logical configurations for seamless workload tailoring

Technical Specifications

Form Factor	10U AI server
Processor	2 x 5th Gen AMD EPYC™ 9005 Series (Turin) processors, each with up to 500 W TDP
Memory	24 x DDR5 DIMM slots at up to 6400 MT/s
Local Storage	- CPU direct-connected: 8 x 2.5" SAS/SATA/NVMe drives + 2 x 2.5" NVMe drives - Internal: 2 x SATA/PCIe M.2 drives
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and web-based remote configuration
GPU	16 x dual-width GPUs , supports up to 20 dual-width cards*
Network	Flexible networking capabilities, supporting 2 x OCP 3.0 NICs
PCIe Expansion	14 x PCIe expansion slots
Fan	20 x 8080 fans in N+1 redundancy
PSU	- 8 x 3200 W dual-input CRPS modules in N+1 redundancy
Management	**Standard iBMC Management** - One dedicated GE management port for out-of-band management - Standard interfaces: Redfish, SNMP, IPMI2.0 - Remote console: HTML5/VNC KVM - Key features: fault diagnosis, automated O&M, hardware security hardening, monitoring, configuration, Agentless, and remote control **Optional Software Management** - FusionDirector management software - Five advanced intelligent features - Intelligent, automated, visual, and granular management across the entire lifecycle
OS	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler...
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5ºC to 35ºC (41ºF to 95ºF), compliant with ASHRAE Class A1/A2
Certification	CE, UL, CCC, VCCI, RoHS...
Installation Suite	L-shaped guide rails and adjustable guide rails
Dimensions (H x W x D)	441.7 mm x 447 mm x 900 mm (17.39 in. x 17.60 in. x 35.43 in.)

*: Reserved specifications

02 AI Server
FusionServer G6550 V8

Introduction



G6550 V8

The FusionServer G6550 V8 is a next-generation flagship air-cooled AI server engineered to meet the rigorous demands of large model training and inference.
Featuring exceptional performance, robust reliability, and ease of deployment and maintenance, the G6550 V8 accelerates AI training and inference, High-Performance Computing (HPC), image/video analysis, and database applications.
With flexible configurations and scalable AI computing, the G6550 V8 stands as a powerful platform for driving AI innovation and transforming industries.

Highlights

Powerful Computing

- General Computing: 2 x 5th Gen AMD EPYC™ 9005 Series processors, each with up to 500 W TDP; 24 x DDR5 DIMMs
- AI Computing: 10 x dual-width GPUs

Flexible Configuration

- **Support for Multi-Form GPUs:** a maximum TDP of 600 W
- **Flexible Topology Options:** pass-through and switch
- **MPC Algorithm:** fan power savings of approximately 1.1%

Leading Architecture

- **Modular Design:** high convergence and low coupling among modules, allowing for flexible reconfiguration and independent evolution
- **Agile Cabling:** front or rear cable routing options based on actual data center scenarios and maintenance practices
- **Efficient O&M:** maintenance without component removal

Technical Specifications

Form Factor	6U AI server
Processor	2 x 5th Gen AMD EPYC™ 9005 Series processors, each with up to 500 W TDP
Memory	24 x memory slots available for DDR5 DIMMs at up to 6400 MT/s
Local Storage	- Up to 10 x 2.5″ SAS/SATA/NVMe drives - supports two M.2 SSDs
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
GPU	10 x dual-width GPUs
Network	1 x OCP 3.0 NIC
PCIe Expansion	- Passthrough model：Up to 11 x standard PCIe 5.0 slots - Switch model：Up to 15 x standard PCIe 5.0 slots
Fan	GPU: 12 or 18 x 6056++ fans in N+1 redundancy CPU: 6 x 6056++ fans in N+1 redundancy
PSU	- 8 x 3200 W single-input or dual-input CRPSs in N+N redundancy
Management	- The iBMC chip integrates one dedicated management GE 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, and supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. - It is optional to configure FusionDirector that enables intelligent, automatic, visualized, and refined management throughout the server lifecycle.
OS	Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5ºC to 35ºC (41ºF to 95ºF), compliant with ASHRAE Class A1/A2
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)	263.9 mm x 447 mm x 850 mm (10.39 in. x 17.60 in. x 33.46 in.)

02 AI Server
FusionServer G5200 V7

Introduction



G5200 V7



G5200 V7 rear backplane

FusionServer G5200 V7 (G5200 V7) is a new-generation 4U 2-socket AI server that meets the 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.

Highlights

Robust Performance

- Ultra-large storage: up to 28 x 2.5/3.5" SAS/SATA drives, 4 x NVMe SSDs, and 2 x M.2 SSDs
- Supreme computing power: 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with up to 350 W TDP; 4 x FHFL dual-width GPU cards; GPU pass-through design, eliminating 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

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique 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

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with 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: The CPU working frequency is dynamically adjusted 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
- Supports takeover of all vendors' servers, automatic asset location identification, and real-time tracking, 100% accuracy for asset stocktaking

Technical Specifications

Form Factor	4U AI server
Processor	1 or 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 350 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, with up to 5600 MT/s speed
Local Storage	Hot-swappable drive configurations: - Up to 28 x 2.5/3.5" SAS/SATA drives - Up to 4 x NVMe SSDs Flash storage:2 x M.2 SSDs
RAID	RAID 0, 1, 10,1E, 5, 50, 6, and 60; supercapacitors for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
GPU Card	4 x dual-width or 10 x single-width GPU cards
Network	Multiple network expansion capabilities 2 x OCP 3.0 NICs, which can be configured as required; supporting orderly hot swap and PCIe 5.0
PCIe Expansion	Up to 10 x standard PCIe slots, supporting PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	4 x 1500 W Platinum, or 2000 W Platinum/Titanium hot-swappable PSUs with PSU1 and PSU2 in 1+1 redundancy and PSU3 and PSU4 in 1+1 redundancy
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, enabling intelligent, automatic, 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 bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 35°C (41°F to 95°F) , compliant with ASHRAE Class A1/A2
Certification	CE, NRTL, 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.)

02 AI Server
FusionServer G5500 V7

Introduction



G5500 V7

FusionServer G5500 V7 (G5500 V7) is a next-generation 4U 2-socket AI server. It supports up to 10 x dual-width GPU cards and has the capability to accommodate 4 x standard PCIe cards and 3 x OCP cards for extensive expansion. With 24 x 2.5/3.5" drives or 12 x NVMe SSDs, it provides remarkable storage options with ultra-large capacity or ultra-fast storage. G5500 V7 features high performance, flexible architecture, solid reliability, easy deployment, and simplified management. It is designed for accelerating applications such as AI training, AI inference, high-performance computing (HPC), image and video analysis, and databases, and supports enterprise and public cloud deployment.

Highlights

Optimized performance

- General computing: 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with 385 W TDP per processor, and 32 x DDR5 DIMMs, improving overall performance by up to 50%
- Intelligent computing: up to 10 x dual-width GPU cards, improving AI computing by 25% compared with the server with 8 x GPU cards
- Large storage: up to 24 x 2.5/3.5" SAS/SATA drives or 12 x NVMe SSDs + 8 x SATA/SAS drives
- Numerous I/Os: typical configuration of 8 x dual-width GPUs, another 6 x standard PCIe cards and 3 x OCP NICs, leading the industry

Extreme flexibility

- One-click switchover between cascaded and balanced topologies, flexibly adapting to multiple scenarios
- PCIe Retimer-free design, reducing the PCIe lane latency and system power consumption
- GPUDirect Storage/RDMA/P2P, adaptive to large-scale cluster deployment

Ultimate reliability

- Innovative drive design with vibration resistance and noise reduction, diminishing the failure rate by 60% compared to the industry average
- Enhanced system robustness design and automatic firmware recovery
- Reliable fan redundancy: 6 or 8 x customized 8080+ fans in N+1 redundancy
- PSU redundancy and high efficiency: 4 x 3000 W Titanium PSUs in N+N/N+M redundancy

Technical Specifications

Form Factor	4U AI server
Processor	2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x DIMMs at up to 5600 MT/s, up to 256 GB per DIMM
Local Storage	Hot-swappable and flexible drive configurations: - Up to 24 x 2.5/3.5" SAS/SATA drives - Up to 12 x NVMe SSDs and 8 x SATA/SAS drives Flash storage: dual M.2 SSDs
RAID	RAID 0, 1, 10, 5, 50, 6, and 60; supercapacitors for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
GPU Card	10 x dual-width GPU cards
Network	Multiple network expansion capabilities, 3 x OCP 3.0 NICs
PCIe Expansion	Up to 14 x standard PCIe 5.0 slots, including 10 x dedicated slots for GPU cards
Fan Module	6 or 8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	4 x 2000 W Platinum/Titanium, 2600 W Platinum, or 3000 W Titanium hot-swappable PSUs in N+N/N+M redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle
OS	Microsoft Windows Server, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, and Ubuntu
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5ºC to 35ºC (41ºF to 95ºF), compliant with ASHRAE Classes A1/A2
Certification	CCC, CQC, VCCI, and CE
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 898mm (6.89 in. x 17.60 in. x 35.35 in.)

*The highest operating temperature varies depending on the server configuration. For details, see the white paper.

02 AI Server
FusionServer G8600 V7

Introduction



G8600 V7

FusionServer G8600 V7 is a new-generation flagship AI server ideal for high-performance scenarios such as large-scale accelerated computing, scientific computing, and image and data analysis. It features flagship computing power, ultimate energy efficiency, high reliability, and easy O&M.

Highlights

Supreme Computing Power

- General computing power: 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with 385 W TDP per processor, and 32 x DDR5 DIMMs, improving the overall performance by up to 50%
- Intelligent computing power: 8 x GPU modules with the unmatched computing power in the industry
- Optimized architecture: compatible with the high-performance and balanced NVIDIA topologies; PCIe 5.0 devices in cable-free chassis without Retimer chips

Ultimate Energy Efficiency

- The 54 V and 12 V dual-plane architecture combined with the Model Predictive Control (MPC) algorithm for GPUs and CPUs enables 5.9% higher energy efficiency than the industry average and saves 500 W power under the typical load
- Compared with the 12 V PSUs, the dual-partitioned 54 V and 12 V PSUs reduce a power conversion step, saving 76 W power per server
- Self-developed 54 V and 12 V Titanium PSUs improve the power efficiency by 2% compared with Platinum PSUs under 50% load
- The 54 V PSUs support dual inputs, improving the power load rate and promoting the power efficiency by 1.9%
- The MPC algorithm for heat dissipation control saves about 1.1% power for fan modules

Rock-solid Reliability

- Highly reliable power supply architecture: 54 V dual-bus PSUs allow a smaller PSU amount and higher redundancy
- Modular and easy O&M: Six modules (GPU, CPU, fan, power supply, and I/O modules) can be replaced without being removed from the chassis, reducing maintenance time by 2.5 times
- Fan module and PSU redundancy: GPU and CPU fan modules in N+1 redundancy, 12 V PSUs in 1+1 redundancy, and 54 V PSUs in N+M redundancy

Technical Specifications

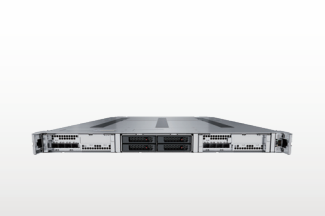
Form Factor	8U AI server
Processor	2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x DIMMs, up to 256 GB per DIMM, up to 5600 MT/s
Local Storage	8 x 2.5" front SAS/SATA drives + 8 x 2.5" rear NVMe SSDs Flash storage: dual M.2 SSDs
RAID	RAID 0, 1, 10, 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 Module	8 x GPU modules
Network	2 x OCP 3.0 NICs, which can be configured as required and supports orderly hot swap
PCIe Expansion	Up to 13 x PCIe slots, including 12 x standard PCIe 5.0 x16 slots and 1 x OCP 3.0 slot
Fan Module	GPU: 10 x 54 V fan modules in N+1 redundancy; CPU: 5 x 12 V fan modules in N+N redundancy
PSU	54 V: 6 x 3000 W Titanium hot-swappable PSUs，Cabinet-level N+N redundancy backup with 2+2, 3+1, 3+3, 4+2, and 5+1 configuration based on the load is supported. 12 V： 2 x 3000 W Titanium or 2000 W Titanium/Platinum hot-swappable PSUs in 1+1 redundancy
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, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle
OS	Ubuntu, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, and others
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, and secure boot
Operating Temperature	5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2/A3
Certification	CQC, CE, and RoHS
Installation Suite	L-shaped guide rails
Dimensions (H x W x D)	352.8 mm x 447 mm x 925 mm (13.89 in. x 17.60 in. x 36.42 in.)

03 Rack-Scale Server
FusionPoD

Introduction



FusionPoD



DH120E V8

The FusionPoD rack-scale liquid-cooled server adopts the leading integrated architecture with 48 V centralized power supply, supporting 2N input and N+1 redundancy backup. It also features blind mating design of power supply and liquid cooling pipes, reducing O&M workload. The FusionPoD offers significant advantages including powerful performance, high density, Optimized energy efficiency, robust reliability, integrated delivery, and simplified O&M. Designed for high-performance computing and other application scenarios, it can be flexibly deployed in all types of data center equipment rooms.

Highlights

High Density and Powerful Performance

- Up to 32 x 1U liquid-cooled server nodes per cabinet
- Up to 105 kW per cabinet
- 48 V centralized power supply with a maximum power conversion efficiency of 97%
- Dual-input PSU with 2N power distribution

Optimized Energy Efficiency and Robust Reliability

- Native liquid cooling design with pPUE as low as 1.06
- Non-porous riveting, front/rear water retaining walls, and leakage drainage design for server nodes
- Node- and cabinet-level leakage monitoring, supporting leakage alarms
- At least 10 years of lifespan for cabinet-level components

ntegrated Delivery and Simplified O&M

- Integrated cabinet deployment without onsite installation, improving rollout efficiency by 10 times
- Blind node mating of power and liquid for efficient O&M
- Redfish APIs for integration with third-party NMSs

Rack-Scale Liquid-Cooled Server

Cabinet: FusionPoD

Technical Specifications

Number of Slots	Up to 46 slots
Server Nodes	32 x 1U1P nodes or 32 x 1U2P nodes
pPUE	pPUE as low as 1.06
Management Module	- Cabinet Management Module - PSU and sensor management in the cabinet, cabinet-level liquid leak monitoring - Two 10GE ports, one GE port, and one RS485 serial port
Environmental Specifications	- Operating temperature: 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1/A2/A3 - Storage temperature (within three months): –30°C to +60°C (–22°F to +140°F) - Storage temperature (within six months): –15°C to +45°C (5°F to 113°F) - Storage temperature (within one year): –10°C to +35°C (14°F to 95°F) - Maximum temperature change: 20°C (36°F) per hour, 5°C (9°F) per 15 minutes
Relative Humidity (Non-Condensing)	- Operating humidity: 8% to 90% - Storage humidity (within three months): 8% to 85% - Storage humidity (within six months): 8% to 80% - Storage humidity (within one year): 20% to 75% - Maximum humidity change rate: 20% per hour
Switching Slot	- Up to 5 x switching slots - One 1U standard third-party 10GE/25GE/100GE/200GE/400GE switch per slot
Power Distribution	- 2N power supply system - Up to 36 x PSUs per cabinet (3 kW per PSU) - N+M hot-swappable PSU redundancy, allowing configurations such as N+1, N+2 based on power requirements - 3+3 three-phase AC power inputs per AC power shelf - Voltage range: 346 V AC to 415 V AC, 32 A current per phase
Product Certification	REACH, POPs, WEEE, Packaging and Packaging Waste, RoHS, VCCI, and CB
Max. Weight in Full Configuration	1048 kg (2310.44 lb)
Dimensions (W x D x H)	Cabinet with front and rear perforated doors, and front and rear enclosure frames: 600 mm x 1350 mm x 2250 mm (23.62 in. x 53.15 in. x 88.58 in.)

Rack-Scale Liquid-Cooled Server
Node: DH120E V8

Technical Specifications

Processor	2 x Intel® Xeon® 6 (Granite Rapids-AP) processors - Built-in memory controller and 12 memory channels per processor - Built-in PCIe controller, supporting PCIe 5.0 and 96 lanes per processor - 6 x UltraPath Interconnect (UPI) buses between processors, providing up to 24 GT/s transmission per channel - Up to 128 cores - Max. 3.9 GHz turbo frequency - Max. 550 W TDP
DIMM	- Up to 24 x DDR5 DIMMs - Up to 8800 MT/s - RDIMM and MRDIMM
Local Storage	- Flexible drive configurations with up to 4 x front drives - Hot-swappable SAS/SATA U.2 drives - Multiple types of RAID controller cards supported
RAID	RAID 0, 1, 10, 5, 50, 6 or 60; supercapacitor for cache data power failure protection, RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
Network	Multiple network expansion capabilities; up to 2 x standard HHHL NIC slots which can be configured as required
PCIe Expansion	Up to 4 x PCIe 5.0 x 16 HHHL slots and 1 HHHL slot for standard RAID controller card/1 x self-developed RAID controller card
Cold Plate	CPU liquid cooling and DIMM liquid cooling (optional)
Power Supply	1 x 3000 W DC-DC power supply
Management	UEFI, xFusionBMC, and integration with third-party management systems
OS	SLES, Red Hat, VMware, FusionOS, and Ubuntu
Security	- Power-on password and administrator password - Secure boot and Trusted Platform Module (TPM)
Operating Temperature	5°C to 45°C (41°F to 113°F), compliant with ASHRAE Class A1 to A4
Certification	REACH, POPs, WEEE, Packaging and Packaging Waste, RoHS, VCCI, and CB
Max. Weight in Full Configuration	20.36 kg (44.89 lb)
Dimensions (H x W x D)	43.2 mm x 536 mm x 900 mm (1.70 in. x 21.10 in. x 35.43 in.)

03 Rack-Scale Server
FusionPoD for AI

Introduction



FusionPoD for AI

64	1.06	100%	105	2
GPUs	pPUE	Native liquid cooling	kW	Blind mating
Peak computing	Ultimate energy efficiency	Unmatched energy efficiency	Ultrahigh power	Simplified O&M



GN560E V7

The FusionPoD for AI rack-scale liquid-cooled server adopts the leading integrated cabinet design. It provides a 105 kW high-power centralized power supply system and eight nodes with each supporting eight GPUs. In addition, the cabinet uses the power supply and liquid cooling bus blind mating, 2N/N+N redundancy backup, and native liquid cooling, which achieves extreme energy efficiency and ultra-low PUE. The rack-scale liquid-cooled server supports automatic robot O&M and unmanned intelligent detection and O&M.

FusionPoD for AI features high computing, performance, energy efficiency, reliability, and bandwidth, integrated cabinet delivery, and simplified O&M. It is ideal for AI scenarios such as training and inference of large and super large models.

Highlights

Compatibility with Diverse Computing and High-Density Integration of 64 GPUs

- Diverse computing in the same architecture
- High-density deployment of eight GPUs per node and eight nodes per cabinet
- 105 kW power supply and heat dissipation per cabinet
- Flexible Ethernet and IB switches in the cabinet, up to 12 PCIe 5.0 x16 expansion slots, and cluster networking

Native Liquid-Cooling Design, Reducing TCO by 15% in Five Years

- Multi-level liquid cooling leakage protection and detection for components, nodes, and cabinets
- Water and electricity isolation and proactive pipe shutdown in case of liquid leakage
- Highly reliable liquid-cooling components, providing a life span of 10+ years, with TÜV Rheinland liquid cooling leakage-proof certification
- Green and low-carbon, 100% liquid cooling, and pPUE per cabinet as low as 1.06; integrated cabinet delivery, improving deployment efficiency by 10 times

Full Blind Mating of Power, Network, and Liquid, Supporting Plug and Play

- Integrated cabinet deployment, improving rollout efficiency by 10 times
- Nodes or GPU modules that are installed and removed independently, avoiding operations on power, network, or liquid during maintenance

Rack-Scale Server
FusionPoD for AI

Technical Specifications

Environmental Specifications	• Operating temperature: 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3 • Storage temperature (within three months): –30°C to +60°C (–22°F to +140°F) • Storage temperature (within six months): –15°C to +45°C (5°F to 113°F) • Storage temperature (within one year): –10°C to +35°C (14°F to 95°F) • Maximum rate of temperature change: 20°C (36°F) per hour and 5°C (9°F) per 15 minutes
Relative Humidity (No Condensing)	• Operating humidity: 8% to 90% • Storage humidity (within three months): 8% to 85% • Storage humidity (within six months): 8% to 80% • Storage humidity (within one year): 20% to 75% • Maximum rate of humidity change: 20% per hour
Available Space	• Node area: 8 x 4U server nodes • Switch area: 5 x 1U general-purpose switches (rear ports) or 4 x 1U general-purpose switches (front ports) • PSU area: 2 x 3U power shelves and 1 x 2U AC PDU
Server Node	• 8 x 4U server nodes
pPUE	• ≥ 1.06
Management Module	• Cabinet management module: 2 x 10GE ports, 1 x GE port, and 1 x RS485 serial port • PSU, sensor, and asset management in the cabinet, and cabinet-level liquid leakage monitoring
Switch Slot	• Up to 5 x slots for switches • 5 x 1U general-purpose switches (rear ports) or 4 x 1U general-purpose switches (front ports) • 1 x GE/10GE/25GE/100GE switch or 200G/400G IB switch supported by each slot
Power Supply and Distribution	• 2N power supply system • Nominal voltage output: 48 V; actual output voltage: 54.5 V • 36 x PSUs (3 kW per PSU) • PSUs in N+M redundancy (1 ≤ M ≤ N) • Three-phase AC power supply input (6+6); voltage range: 346 V AC to 415 V AC
Certification	• CE, CB, and RoHS
Cabinet Size (H x W x D)	• Optical cables: 2250 mm x 600 mm x 1200 mm (88.58 in. x 23.62 in. x 47.24 in.) • Electrical cables: 2250 mm x 600 mm x 1300 mm (88.58 in. x 23.62 in. x 51.18 in.) • Note: Height includes height of casters. When a RDHx is included, depth increases by 125 mm (4.92 in.).
Weight in Full Configuration	• Fully-loaded cabinet: 1300 kg (2866.01 lb)

Rack-Scale Server
GN560E V7

Technical Specifications

Environmental Specifications	2 x 4th Gen Intel® Xeon® Scalable processors (Intel Eagle Stream Platform all series Sapphire Rapids CPUs), up to 350 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x 4800 MT/s DDR5 RDIMMs
Local Storage	Hot-swappable and flexible drive configurations: Up to 8 x 2.5" front NVMe drives + 2 x 2.5" front SAS or SATA drives
RAID	Hot-swappable and flexible drive configurations: Up to 8 x 2.5" front NVMe drives + 2 x 2.5" front SAS or SATA drives
GPU Module	8 x GPU modules
Network	Multiple network expansion capabilities: IB, Ethernet, and FC Up to 12 x standard PCIe NICs, which can be configured as required
PCIe Expansion	Up to 13 x standard PCIe slots
Fan Module	10 x fan modules in N+1 redundancy
Cold Plate	Liquid cooling: CPUs + VRD + HGX 8-GPU modules Liquid cooling: CPUs + memory modules + VRD + HGX 8-GPU modules
Power Supply	54.5 V centralized power supply in a cabinet
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.
OS	FusionOS, RHEL, Rocky Linux, Ubuntu, and SUSE
Security	Administrator password, TPM 2.0, and secure boot
Operating Temperature	Operating temperature: 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3
Certification	CE, CB, and RoHS
Dimensions (H x W x D)	175 mm x 536 mm x 1006.4mm (6.89 in. x 21.10 in. x 39.62 in.)
Weight	80 kg (176.37 lb)

03 Cooling Distribution Unit
FusionCool

Introduction



The cooling distribution unit (CDU) adopts a highly integrated design with plate heat exchangers, secondary loop circulating pumps, filters, control valves, temperature detection systems, pressure detection systems, and centralized control systems. It is capable of precisely regulating the temperature, flow, and pressure of liquid-cooled servers. The liquid cooling system eliminates the use of chillers and maximizes the use of natural cooling sources, significantly improving the power utilization efficiency of data centers and reducing their reliance on specific climate conditions. The CDU applies to data centers in various scenarios, such as cloud computing, virtualization, and big data.

Highlights

Intelligent Temperature Control

- **Heat dissipation capability:** rated heat dissipation capability of 200 kW to 300 kW
- **Temperature control:** dynamic adaption to server loads, with a heat control precision of ±1°C (1.8°F)
- **Anti-condensing:** dew point monitoring function for automatic condensing prevention

Flexible Deployment

- **Flow control:** automatic traffic control by constant pressure difference for flexible adaption to different server configurations
- **Flexible adaption to multiple scenarios:** flexible side-by-side installation with server cabinets and installation in equipment rooms

High Stability and Reliability

- **Pump redundancy:** 1+1 redundancy, supporting alternate query and seamless switchover between the normal pump and the faulty one
- **Power supply:** 2N redundancy and dual-input power supply
- **Automatic refill:** system pressure monitoring and automatic water refill
- **Power failure memory:** no setting loss in the case of abnormal power failure
- **Auto power-on:** automatic start-up upon power restoration
- **Blockage pre-warning:** automatic monitoring of differential pressure between filters and heat exchangers, pre-warning of blockages for prompt maintenance

Intelligent Management

- **Remote settings:** remote setting of temperature and pressure differences
- **Status and fault management:** automatic operating status monitoring and fault reporting
- **Group control function:** multi-server hot backup and group control operation
- **Standard protocols:** SNMP and Modbus

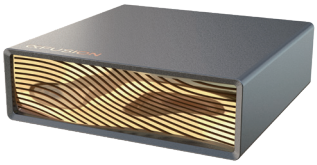
Technical Specifications

Parameter	Description
Storage ambient temperature	-40 °C to +70°C (–40°F to +158°F)
Operating ambient humidity	5% to 95%
Operating ambient temperature	5°C to 50°C (41°F to 122°F)
Altitude	0 m to 3000 m (0 in. to 118,110.20 in.)

Model			FusionCool 200-320-S	FusionCool 300-470-D	FusionCool 300-500-S
Heat Dissipation Capability		kW	200	300	300
Primary Loop	Circulating medium	/	Water or glycol solution	Water or glycol solution	Water or glycol solution
	Feed and return liquid temperature	°C	35/45	35/45	35/45
	Circulating flow	LPM	320	470	500
	Filter accuracy	μm	300	300	300
	Interface size	mm	2-inch quick-connect chuck	3-inch quick-connect chuck	3-inch quick-connect chuck
Secondary Loop	Circulating medium	°C	Water or ethylene glycol aqueous solution	Water or ethylene glycol aqueous solution	Water or ethylene glycol aqueous solution
	Feed and return liquid temperature	°C	40/50	40/50	40/50
	Secondary frequency conversion water pump	Set	1	1+1	1
	Filter accuracy	μm	100	100	100
	Refill rate	LPM	1.5	1.5	1.5
	Interface size	mm	2-inch quick-connect chuck	3-inch quick-connect chuck	3-inch quick-connect chuck
Input voltage		V	380 V-3 Ph-50 Hz, 16 A Dual-input	380 V-3 Ph-50 Hz, 16 A Dual-input	380 V-3 Ph-50 Hz, 16 A Dual-input
Power		kW	2.8	5.2	5.2
Maximum working pressure		MPa	1	1	1
Maximum pressure bearing		MPa	1.6	1.6	1.6
Weight		kg	410	700	680
Dimensions (W×D×H)		mm	600×1050×2000/2250	600×1200×2000/2250	600×1200×2000/2250

04 FusionXpark™ Portable AI agent development platform

Profile



FusionXpark™ Portable AI agent development platform

A new desktop AI computer specifically designed for the complete construction and operation of AI. It utilizes the NVIDIA GB10 Grace Blackwell superchip, providing up to 1000 AI TOPS performance with energy efficiency and a compact design to power large AI workloads. With 128GB of unified address system memory, developers can prototype, fine-tune, or infer next-generation AI models with up to 200 billion parameters and seamlessly deploy them to data centers or cloud platforms. Additionally, the integrated NVIDIA ConnectX™ network allows two AI computers to be connected, supporting inference on models with up to 405 billion parameters.

With its outstanding energy efficiency and compact design, this AI computer offers powerful AI supercomputing capa-bilities and superior performance, making it the ideal choice for AI developers, researchers, and data scientists.

Feature

NVIDIA GB10 Superchip

- Leveraging the NVIDIA Grace Blackwell architecture, it delivers up to 1 petaFLOP of AI performance at FP4 precision.

128 GB Unified Address System Memory

- Supports developers in running AI development and testing workloads locally for models with up to 200 billion parameters.

ConnectX Network

- The integrated high-performance NVIDIA ConnectX™ network can connect two AI computer systems together, allowing AI model scales to expand up to 405 billion.

AI Software Stack

- Pre-install NVIDIA DGX OS
- Support NVIDIA AI enterprise software stack，provide full-stack solution and compatible with the CUDA ecosystem.

Technical Specifications

Model	FusionXpark™ GB10
Architecture	NVIDIA Grace Blackwell
GPU	Blackwell Architecture
CPU	20 core Arm, 10 Cortex-X925 + 10 Cortex-A725 Arm
CUDA Core	6144
Tensor Core	Fifth Generation
Supported Data Format	TF32、FP16、BF16、INT8、FP8、FP6、FP4
RT Core	Fourth Generation
Tensor Performance[1]	1 PFLOP
System Memory	128 GB LPDDR5x, Unified System Memory
Video Memory Interface | Bandwidth	256 bit | 273 GB/s
Storage	Self-encrypting 1 TB 、2 TB or 4 TB NVME.M2
USB	4 USB4 Type C
Ethernet	1 RJ-45，10 GE
NIC	ConnectX-7 Smart NIC
Wi-Fi	Wi-Fi 7
Bluetooth	BT 5.4
Audio Output	HDMI Multi-channel Audio Output
Display Interface	1x HDMI 2.1a
NVENC | NVDEC	1x | 1x
Weight	1.2 kg
Dimension	150 mm L x 150 mm W x 50.5 mm H
OS	Pre-install NVIDIA DGX OS
AI Software Stack	Support NVIDIA AI Enterprise
Custom Signature	Support Custom Signature

1: Theoretical FP4 TOPS value using sparse computing power.

05 Management Platform

FusionDirector Unified Computing Infrastructure Management Platform

Introduction

FusionDirector serves as a unified Computing management software platform for intelligent infrastructure O&M throughout the server full lifecycle. It provides intelligent deployment, discovery, upgrade, maintenance, and energy-saving management throughout daily O&M for a lower OPEX. FusionDirector improves O&M efficiency by 30% and saves cost greatly. It ensures security in booting, running, datastream, compliance, and decommissioning for full-lifecycle user security system of xFusion servers.

FusionDirector provides standard Redfish interfaces to facilitate integration and interconnection. It can be widely used by telecom and enterprise customers in the public cloud, private cloud, accelerated computing, scientific computing, Internet, and Safe City scenarios.

Technical Specifications

Intelligent Maintenance

- Integration of prevention, diagnosis, and self-healing processors, memory modules, drives, and PSUs
- 96% accuracy for diagnosis and the downtime rate reduced by 66%

Intelligent Upgrading

- One-click automation, and automatic firmware version upgrades and matching in batches
- 20x higher upgrade efficiency

Intelligent Discovery

- Component-level visualization, automatic asset stocktaking in seconds, and real-time tracking
- 100% accuracy for asset stocktaking

Intelligent Energy Saving

- Dynamic and refined adjustment with efficient energy-saving technology
- Saving 8% more energy than the industry average

Intelligent Deployment

- Streamlined deployment and one-click switch among multiple modes for hardware, OSs, databases
- 10x higher deployment efficiency

More Information

For more information about xFusion,
please consult the local xFusion representative office or visit
the xFusion official website at www.xfusion.com.

xFusion official website

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