

# Computing Infrastructure

## Manuales de producto







# Acerca de xFusion

**XFUSION INTERNATIONAL PTE. LTD.** (xFusion) es un proveedor líder a nivel mundial de infraestructura y servicios de computación. Impulsada por la visión «**Let Computing Serve You Better**», xFusion se centra en crear valor para sus clientes y socios, acelerando la transformación digital en una amplia variedad de sectores. Con sede en Singapur, xFusion cuenta con una importante presencia global que incluye 9 centros de investigación, 7 oficinas regionales y 6 Centros Globales de Asistencia Técnica (GTAC). Su compromiso de ofrecer soluciones informáticas innovadoras le ha permitido atender a más de 10.000 clientes en más de 100 países y regiones, abarcando sectores como las telecomunicaciones, las finanzas, Internet, el transporte y la energía.

El Centro de Suministro Global de xFusion en Penang (Malasia) está diseñado para alcanzar una capacidad de producción anual de 200.000 servidores, abarcando toda la cartera de productos de la compañía. La eficiencia logística y las capacidades de distribución del centro garantizan un servicio puntual y eficaz para los clientes de todo el mundo. Esta ubicación estratégica permite a xFusion optimizar sus operaciones, asegurando los más altos estándares de calidad y una entrega eficiente de sus productos y servicios.

**9**  
Research  
Centers

**7**  
Regional  
Offices

**6**  
GTACs

**12**  
Innovation  
Labs

**2000+**  
Core Patents

**10000+**  
Customers

**24000+**  
Partners

**100+**  
Countries and  
Regions







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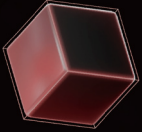
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# 01 | Rack Server

## 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:** up to 5 x PCIe 5.0 slots at the rear, including 2 x OCP 3.0 slots



#### 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%



#### Optimal 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 1U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Processor</b>              | 2 x Intel® Xeon® 6700P/6500P/6700E processors, each with up to 350 W TDP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Memory</b>                 | 32 x memory slots available for DDR5 DIMMs at up to 6400 MT/s or MRDIMMs at up to 8000 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Local Storage</b>          | <p>Hot-swappable drive configurations:</p> <ul style="list-style-type: none"> <li>- 8/10 x 2.5" SAS/SATA/NVMe drives</li> <li>- 4 x 3.5" SAS/SATA drives</li> <li>- 16 x E3.S SSDs</li> <li>- 2 x M.2 SSDs, supporting hardware RAID</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Network</b>                | 2 x hot-swappable OCP 3.0 NICs, supporting PCIe 5.0, NCSI, and multi-host                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PCIe Expansion</b>         | Up to 5 x PCIe slots at the rear, supporting PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Fan</b>                    | 8 x hot-swappable counter-rotating fans in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PSU</b>                    | 900 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Management</b>             | <ul style="list-style-type: none"> <li>- The iBMC chip integrates one dedicated management GE port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</li> <li>- 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.</li> <li>- It is optional to configure FusionDirector that enables intelligent, automatic, visualized, and refined management throughout the server lifecycle.</li> </ul> |
| <b>OS</b>                     | Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Operating Temperature</b>  | 5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2/A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Dimensions (H x W x D)</b> | 43 mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

# 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:** Up to 10 x standard PCIe slots and 2 x OCP 3.0 slots, supporting PCIe 5.0 and cables routing from the front panel
- **High-speed flash memory and diverse configurations:** (1) 20 x 3.5" SAS/SATA drives; (2) 33 x 2.5" SAS/SATA drives; (3) 24 x NVMe SSDs; (4) 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%



#### Optimal Energy Efficiency

- **Dynamic Energy Management:** Intelligent, non-disruptive tuning based on workloads, 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U Rack Server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Processor</b>              | 2 x Intel® Xeon® 6 6700P/6500P/6700E Scalable processors with TDP 350W per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Memory</b>                 | 32 x memory slots available for DDR5 DIMMs at up to 6400 MT/s or MRDIMMs at up to 8000 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Local Storage</b>          | <p>Hot-swappable drives configurations:</p> <ul style="list-style-type: none"> <li>- 20 x 3.5" SAS/SATA drives</li> <li>- 33 x 2.5" SAS/SATA drives</li> <li>- 24 x NVMe SSDs</li> <li>- 36 x E3.S SSDs*</li> </ul> <p>Flash storage: 2 x M.2 SSDs, hardware RAID, and hot swap</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Network</b>                | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PCIe Expansion</b>         | Up to 10 x standard PCIe slots and 2 x OCP 3.0 slots, supporting PCIe 5.0 and cables routing from the front panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Fan</b>                    | 4 x hot-swappable counter-rotating fans in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>PSU</b>                    | 900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Management</b>             | <p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> </ul> |
| <b>OS</b>                     | Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimensions (H x W x D)</b> | 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 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



#### Optimal 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Processor</b>              | 1 x 4th Gen AMD EPYCTM 9004 (Genoa) or 5th-Gen EPYC™ 9005 series (Turin) processor with up to 500 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Memory</b>                 | 12 x DDR5 DIMMs, delivering up to 6400 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Local Storage</b>          | Hot-swappable and flexible drive configurations: <ul style="list-style-type: none"> <li>- 8 x 2.5" SAS/SATA/NVMe drives</li> <li>- 8 x 3.5" SAS/SATA/NVMe drives</li> <li>- 12 x 3.5" SAS/SATA/NVMe drives</li> <li>- 24 x 2.5" drives (16 x NVMe drives + 8 x SAS/SATA drives)</li> <li>- 2 x M.2 SSDs (SAS/SATA)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Network</b>                | 2 x OCP 3.0 NICs, which can be configured as required; support hot swap and PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>PCIe Expansion</b>         | 10 x PCIe expansion slots; support PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>GPU Card</b>               | 4 x dual-width GPU cards and 1 x dual-width DPU card                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Fan Module</b>             | Four 80 x 80 or six 60 x 60 hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>PSU</b>                    | 2 x PSUs in 1+1 redundancy: <ul style="list-style-type: none"> <li>- 900 W/1500 W/2000 W Platinum AC PSUs</li> <li>- 900 W/2000 W/3000 W Titanium AC PSUs</li> <li>- 1200 W -48 V DC PSUs</li> <li>- 1500 W 380 V high-voltage DC PSUs</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Management</b>             | 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. <ul style="list-style-type: none"> <li>- 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.</li> <li>- 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.</li> </ul> |
| <b>OS</b>                     | xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Operating Temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Installation Suite</b>     | L-shaped, adjustable, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dimensions (H x W x D)</b> | 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



#### Optimal 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Processor</b>              | 2 x5th-Gen EPYC™ 9005 series (Turin) processor with up to 500 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Memory</b>                 | 24 x DDR5 DIMMs, delivering up to 6400 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Local Storage</b>          | Hot-swappable and flexible drive configurations: <ul style="list-style-type: none"> <li>- 8 x 2.5" SAS/SATA drives</li> <li>- 8/16/24 x SAS/SATA/NVMe drives*</li> <li>- 8 x 2.5" NVMe drives, Support hard raid*</li> <li>- 8 x 3.5" SAS/SATA/NVMe drives</li> <li>- 2 x M.2 SSDs (SAS/SATA)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Network</b>                | 2 x OCP 3.0 NICs, which can be configured as required; support hot swap and PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>PCIe Expansion</b>         | 10 x PCIe expansion slots; support PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Fan Module</b>             | Four 80 x 80 hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Management</b>             | 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. <ul style="list-style-type: none"> <li>- 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.</li> <li>- 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.</li> </ul> |
| <b>OS</b>                     | xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Operating Temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Installation Suite</b>     | L-shaped, adjustable, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dimensions (H x W x D)</b> | 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 1U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Processor</b>              | 1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with TDP up to 385 W per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                 | 32 x DDR5 DIMMs, with up to 5600 MT/s speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Local Storage</b>          | Hot-swappable drive configurations:<br>- 8 to 12 x 2.5" SAS/SATA drives/SSDs<br>- 4 x 3.5" SAS/SATA drives/SSDs<br>Flash storage: dual M.2 SSDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Network</b>                | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Fan Module</b>             | 8 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PSU</b>                    | 900 W/1200 W/1500 W/2000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Management</b>             | 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.<br>- The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM; supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management<br>- 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 |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimensions (H x W x D)</b> | Chassis with 3.5" drives: 43mm x 447 mm x 798 mm (1.69 in. x 17.60 in. x 31.42 in.)<br>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 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Processor</b>              | 1 or 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with TDP up to 385 W per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                 | 32 x 5600 MT/s DDR5 DIMMs and 16 x DDR5 or DDR4 DIMMs supported by the CXL technology; up to 48 x DIMMs*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Local Storage</b>          | <p>Hot-swappable drives configurations:</p> <ul style="list-style-type: none"> <li>- 8 to 35 x 2.5" SAS/SATA drives/SSDs (up to 45 x 2.5" drives or 28 x NVMe SSDs*)</li> <li>- 12 to 18 x 3.5" SAS/SATA drives</li> <li>- 4/8/16/24 x NVMe SSDs</li> </ul> <p>Flash storage: 2 x M.2 SSDs, hardware RAID, and hot swap</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Network</b>                | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>GPU Card</b>               | 4 x dual-width or 14 x single-width GPU cards*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Fan Module</b>             | 4 x hot-swappable counter-rotating fans in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>PSU</b>                    | 900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Management</b>             | <p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> </ul> |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Temperature</b>  | 5°C to 50°C (41°F to 122°F), compliant with ASHRAE Classes A1/A2/A3/A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimensions (H x W x D)</b> | <p>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.)</p> <p>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.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

\*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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Processor</b>              | 2 or 4 x 4th Gen Intel® Xeon® Scalable processors with TDP up to 350 W per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Memory</b>                 | 64 x DDR5 DIMMs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Local Storage</b>          | Hot-swappable drives configurations:<br><ul style="list-style-type: none"> <li>- 8 x front 2.5" SAS/SATA drives</li> <li>- 25 x front 2.5" SAS/SATA drives</li> <li>- 4 x front 2.5" SAS/SATA drives and 8 x NVMe SSDs</li> </ul> Flash storage: 2 x M.2 SSDs, supporting hardware RAID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Network</b>                | Multiple network expansion capabilities<br>1 x OCP 3.0 NIC, supporting hot swap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>PCIe Expansion</b>         | Up to 10 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC and 9 x standard PCIe slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Fan Module</b>             | 6 x hot-swappable counter-rotating fans in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>PSU</b>                    | 900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Management</b>             | 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.<br><ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> </ul> |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Operating Temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dimensions (H x W x D)</b> | 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 4U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Processor</b>              | 1 or 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                 | 32 x DDR5 DIMMs, with up to 5600 MT/s speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Local Storage</b>          | Hot-swappable drives configurations:<br>- 4 x 2.5" SAS/SATA drives/SSDs<br>- 24 to 44 x 3.5" SAS/SATA drives<br>- 4 x NVMe SSDs<br>Flash storage: dual M.2 SSDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Network</b>                | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GPU Card</b>               | 8 x single-width GPU cards*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Fan Module</b>             | 6 or 8 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>PSU</b>                    | 900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Management</b>             | 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.<br>- The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM; supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management<br>- 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 |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Temperature</b>  | 5°C to 35°C (41°F to 95°F), compliant with ASHRAE Classes A1/A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimensions (H x W x D)</b> | Chassis with 3.5" drives: 175 mm x 447 mm x 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

- Unrivalled 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 4U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Processor</b>              | 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Memory</b>                 | 32 x DDR5 DIMMs, with up to 5600 MT/s speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Local Storage</b>          | Various drive configurations with hot-swappable capability: <ul style="list-style-type: none"> <li>- 10 x 2.5" SAS/SATA drives*</li> <li>- 60 x 3.5" SAS/SATA drives</li> <li>- 8 x NVMe SSDs</li> <li>- Dual M.2 SSDs</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RAID</b>                   | <ul style="list-style-type: none"> <li>• RAID 0, 1, 10, 1E, 5, 50, 6, or 60</li> <li>• Supercapacitors for cache data protection from power failures</li> <li>• RAID level migration, drive roaming, self-diagnosis, and remote web settings</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Network</b>                | 2 x FlexIO slots dedicated for 2 x OCP 3.0 NICs, allowing for on-demand selection and hot swap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Fan Module</b>             | <ul style="list-style-type: none"> <li>• Computing area: 8 x hot-swappable counter-rotating fan modules in N+1 redundancy</li> <li>• Storage area: 4 x hot-swappable counter-rotating fan modules in N+1 redundancy</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>PSU</b>                    | 1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Management</b>             | <ul style="list-style-type: none"> <li>• The Intelligent Baseboard Management Controller (iBMC) chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automated O&amp;M, and hardware security hardening.</li> <li>• 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.</li> <li>• Optional FusionDirector management software offers five intelligent management features for intelligent, automated, visualized, and refined management throughout the lifecycle.</li> </ul> |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, Trusted Cryptography Module (TCM), security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Operating Temperature</b>  | 5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Installation Suite</b>     | L-shaped and adjustable guide rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Dimensions (H x W x D)</b> | 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 4U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Processor</b>              | 2 or 4 x 4th Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                 | 64 x DDR5 DIMMs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Local Storage</b>          | <p>Hot-swappable drives configurations:</p> <ul style="list-style-type: none"> <li>- 8, 24, 25, or 50 x front 2.5" SAS/SATA drives</li> <li>- 4 x front 2.5" SAS/SATA drives and 8 x NVMe SSDs</li> <li>- 24 x front NVMe SSDs</li> <li>- 25 x front 2.5" SAS/SATA drives and 24 x front NVMe SSDs</li> <li>- 36 x front E1.S SSDs</li> <li>- Up to 52 x 2.5" drives</li> </ul> <p>Flash storage: Flash storage: 2 x M.2 SSDs, supporting hardware RAID</p>                                                                                                                                                                                                                                                                                                                                                        |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Network</b>                | Multiple network expansion capabilities: 1 x OCP 3.0 NIC, supporting hot swap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>PCIe Expansion</b>         | Up to 22 x PCIe slots, including 1 x FlexIO slot dedicated for the OCP 3.0 NIC and 21 x standard PCIe slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GPU Card</b>               | 4 x dual-width GPU cards; 14 x single-width GPU cards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Fan Module</b>             | 6 or 8 x hot-swappable fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PSU</b>                    | 900 W/1200 W/1500 W/2000 W/3000 W Platinum/Titanium hot-swappable PSUs in 2+2 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Management</b>             | <p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> </ul> |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1/A2/A3/A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimensions (H x W x D)</b> | 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 1U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Processor</b>              | 1 x 4th Gen AMD® EPYC 9004 Series processors (Genoa) with up to 400 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                 | 24 x DDR5 DIMMs slots, delivering up to 4800 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Local Storage</b>          | Hot-swappable and flexible drive configurations: <ul style="list-style-type: none"> <li>• 10 x 2.5" SAS/SATA drives/SSDs (up to 4 x NVMe SSDs or 8 x SAS/SATA drives)</li> <li>• 10 x 2.5" SAS/SATA/NVMe drives/SSDs</li> <li>• 2 x M.2 SSDs (SATA/NVMe)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Network</b>                | 2 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Fan Module</b>             | 8 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>PSU</b>                    | 900W Platinum/Titanium hot-swappable power supply, 1500W/2000W Platinum power supply, supports 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Management</b>             | 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. <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0*, security panel, secure boot, and chassis cover opening detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Operating Temperature</b>  | 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Installation Suite</b>     | L-shaped, adjustable, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Dimensions (H x W x D)</b> | 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 1U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Processor</b>              | 1 or 2 x 4th Gen AMD® EPYC 9004 Series processors (Genoa) with up to 400 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Memory</b>                 | 12 or 24 x DDR5 DIMMs slots, delivering up to 4800 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Local Storage</b>          | <p>Hot-swappable and flexible drive configurations:</p> <ul style="list-style-type: none"> <li>• 10 x 2.5" SAS/SATA drives/SSDs, including 2 to 4 x NVMe SSDs and 6 to 8 x SAS/SATA drives</li> <li>• 10 x 2.5" SAS/SATA drives/SSDs</li> <li>• 8 x 2.5" SAS/SATA drives/SSDs</li> <li>• 4 x 3.5" SAS/SATA drives</li> <li>• 32 x E1.s drives*</li> <li>• 20 x E3.s drives*</li> <li>• 2 x M.2 SSDs (SATA/NVMe)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Network</b>                | 1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Fan Module</b>             | 8 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PSU</b>                    | 900W Platinum/Titanium hot-swappable power supply, 1500W/2000W Platinum power supply, supports 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Management</b>             | <p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> |
| <b>OS</b>                     | FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0*, security panel, secure boot, and chassis cover opening detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Operating Temperature</b>  | 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Installation Suite</b>     | L-shaped, adjustable, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Dimensions (H x W x D)</b> | 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Processor</b>              | 1 or 2 x 4th Gen AMD EPYC™ 9004 Series processors (Genoa) with up to 400 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Memory</b>                 | 12 or 24 x DDR5 DIMM slots, delivering up to 4800 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Local Storage</b>          | <p>Hot-swappable and flexible drive configurations:</p> <ul style="list-style-type: none"> <li>• 8 x 2.5" SAS/SATA drives</li> <li>• 12 to 16 x 3.5" SAS/SATA drives</li> <li>• 24 x NVMe SSDs</li> <li>• 12 x 2.5" drives (including 8 x NVMe drives)</li> </ul> <p>Flash storage:</p> <ul style="list-style-type: none"> <li>• 2 x M.2 SSDs (SATA/NVMe)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Network</b>                | 1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GPU Card</b>               | 2 x dual-width GPU cards or 8 x single-width GPU cards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Fan Module</b>             | 4 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>PSU</b>                    | 900W/2000W Platinum/Titanium hot-swappable power supply, 1500W Platinum power supply, 3000W Titanium power supply, supports 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Management</b>             | <p>The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> |
| <b>OS</b>                     | Fusion OS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Operating temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Installation Suite</b>     | L-shaped, adjustable, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dimensions (H x W x D)</b> | 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 2U rack server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Processor</b>              | 1 or 2 x 4th Gen AMD EPYC™ 9004 Series processors (Genoa) with up to 400 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Memory</b>                 | 12 or 24 x 4800 MT/s DDR5 DIMMs and 16 x DDR4/DDR5 DIMMs supported by CXL 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Local storage</b>          | Hot-swappable and flexible drive configurations: <ul style="list-style-type: none"> <li>• 8 x 2.5" SAS/SATA drives</li> <li>• 12 x 3.5" SAS/SATA drives (including 4 x NVMe drives) Flash storage: <ul style="list-style-type: none"> <li>• 2 x M.2 SSDs (SATA/NVMe)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Network</b>                | 1 x OCP 3.0 NIC, which can be configured as required and supports hot swap and PCIe 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>PCIe Expansion</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>GPU Card</b>               | 4 x dual-width GPU cards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CXL Expansion</b>          | 4 x CXL 1.1 cards, with memory expansion up to 16 x DDR5 DIMMs; up to 16 x DDR4 DIMMs*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Fan Module</b>             | 4 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>PSU</b>                    | 900W Platinum/Titanium hot-swappable power supply, 1500W Platinum power supply, 3000W Titanium power supply, 2000W Platinum power supply, supports 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Management</b>             | 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. <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> |
| <b>OS</b>                     | xFusion FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware vSphere, Red Hat Enterprise Linux, Oracle, and Ubuntu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Operating temperature</b>  | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Installation Suite</b>     | L-shaped, adjustable, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dimensions (H x W x D)</b> | 86.1 mm x 447 mm x 798 mm (3.39 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



#### Optimal 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



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 4U AI server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Processor</b>              | 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Memory</b>                 | 32 x DIMMs at up to 5600 MT/s, up to 256 GB per DIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Local Storage</b>          | Hot-swappable and flexible drive configurations:<br><ul style="list-style-type: none"> <li>- Up to 24 x 2.5/3.5" SAS/SATA drives</li> <li>- Up to 12 x NVMe SSDs and 8 x SATA/SAS drives</li> </ul> Flash storage: dual M.2 SSDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>GPU Card</b>               | 10 x dual-width GPU cards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Network</b>                | Multiple network expansion capabilities, 3 x OCP 3.0 NICs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>PCIe Expansion</b>         | Up to 14 x standard PCIe 5.0 slots, including 10 x dedicated slots for GPU cards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Fan Module</b>             | 6 or 8 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>PSU</b>                    | 4 x 2000 W Platinum/Titanium, 2600 W Platinum, or 3000 W Titanium hot-swappable PSUs in N+N/N+M redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Management</b>             | 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.<br><ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> </ul> |
| <b>OS</b>                     | Microsoft Windows Server, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, and Ubuntu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Operating Temperature</b>  | 5°C to 35°C (41°F to 95°F), compliant with ASHRAE Classes A1/A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Certification</b>          | CCC, CQC, VCCI, and CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dimensions (H x W x D)</b> | 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 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: Supports 10 dual-width GPU accelerator cards or 20 single-width accelerator cards



### 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 6U AI server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Processor</b>              | 2 x 5th Gen AMD EPYC™ 9005 Series processors, each with up to 500 W TDP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Memory</b>                 | 24 x memory slots available for DDR5 DIMMs at up to 6400 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Local Storage</b>          | <ul style="list-style-type: none"> <li>- Up to 10 x 2.5" SAS/SATA/NVMe drives</li> <li>- supports two M.2 SSDs</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RAID</b>                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GPU</b>                    | Supports 10 dual-width GPU accelerator cards or 20 single-width accelerator cards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Network</b>                | 1 x OCP 3.0 NIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PCIe Expansion</b>         | <ul style="list-style-type: none"> <li>- Passthrough model: Up to 11 x standard PCIe 5.0 slots</li> <li>- Switch model: Up to 15 x standard PCIe 5.0 slots</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Fan</b>                    | GPU: 12 or 18 x 6056++ fans in N+1 redundancy<br>CPU: 6 x 6056++ fans in N+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PSU</b>                    | - 8 x 3200 W single-input or dual-input CRPSs in N+N redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Management</b>             | <ul style="list-style-type: none"> <li>- The iBMC chip integrates one dedicated management GE port, providing comprehensive management features such as fault diagnosis, automatic O&amp;M, and hardware security hardening.</li> <li>- 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.</li> <li>- It is optional to configure FusionDirector that enables intelligent, automatic, visualized, and refined management throughout the server lifecycle.</li> </ul> |
| <b>OS</b>                     | Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, Oracle, Ubuntu, and openEuler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Operating Temperature</b>  | 5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Certification</b>          | CE, UL, CCC, FCC, VCCI, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Installation Suite</b>     | L-shaped guide rails, adjustable guide rails, and holding rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Dimensions (H x W x D)</b> | 263.9 mm x 447 mm x 850 mm (10.39 in. x 17.60 in. x 33.46 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# 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
- Optimal 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



#### Optimal 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>            | 8U AI server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Processor</b>              | 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 385 W TDP per processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Chipset</b>                | Emmitsburg PCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Memory</b>                 | 32 x DIMMs, up to 256 GB per DIMM, up to 5600 MT/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Local Storage</b>          | 8 x 2.5" front SAS/SATA drives + 8 x 2.5" rear NVMe SSDs<br>Flash storage: dual M.2 SSDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RAID</b>                   | RAID 0, 1, 10, 5, 50, 6, or 60; supercapacitors for cache data protection from power failures;<br>RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GPU Module</b>             | 8 x GPU modules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Network</b>                | 2 x OCP 3.0 NICs, which can be configured as required and supports orderly hot swap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>PCIe Expansion</b>         | Up to 13 x PCIe slots, including 12 x standard PCIe 5.0 x16 slots and 1 x OCP 3.0 slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fan Module</b>             | GPU: 10 x 54 V fan modules in N+1 redundancy; CPU: 5 x 12 V fan modules in N+N redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>PSU</b>                    | 54 V:<br>6 x 3000 W Titanium hot-swappable PSUs, Cabinet-level N+N redundancy backup with 2+2, 3+1, 3+3, 4+2,<br>and 5+1 configuration based on the load is supported.<br>12 V:<br>2 x 3000 W Titanium or 2000 W Titanium/Platinum hot-swappable PSUs in 1+1 redundancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Management</b>             | 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.<br>- The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM; supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management<br>- 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 |
| <b>OS</b>                     | Ubuntu, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, and others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Security</b>               | Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, and secure boot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Operating Temperature</b>  | 5°C to 35°C (41°F to 95°F), compliant with ASHRAE Class A1/A2/A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Certification</b>          | CQC, CE, and RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Installation Suite</b>     | L-shaped guide rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Dimensions (H x W x D)</b> | 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 V7

The FusionPoD rack-scale server (FusionPoD) adopts the leading integrated cabinet design, including the centralized N+1 power supply system, three-bus design of power, network, and liquid cooling, and blind mating of nodes. It achieves easy O&M benefiting from cable-free deployment in a cabinet and is expected to support unmanned O&M in the coming years. The FusionPoD features high density, powerful performance, high energy efficiency, robust reliability, integrated delivery, and simplified O&M. It is applicable to cloud computing, virtualization, big data, scientific computing, and other applications, and can be widely deployed in enterprise business, Internet data centers (IDCs), telecom, Internet, and other data centers.

### Highlights



#### High-Density Computing Power Enhanced by 8 Times

- Power supply: industry-leading N+1 centralized power supply technology and unique CQC level-6 (Ultra-Titanium) PSUs, delivering up to 96.5% conversion efficiency
- Heat dissipation: high-density shovel-tooth cold plates, meeting heat dissipation requirements of high-power chips
- Data communication: high-speed passive cable backplane



#### Three-Bus Full Blind Mating and Cable-Free Design with Ultimate Intelligence

- Industry-unique three-bus blind mating (power, network, and liquid cooling) design, with 0 cables in the cabinet
- Blind node mating for efficient O&M: blind mating of nodes, supporting unmanned O&M in the future
- Integrated delivery without onsite installation: installation and commissioning of the rack-scale server on the production line, realizing the integrated delivery to the customer's equipment room and improving rollout efficiency by times
- RoT-based secure boot ensures security everywhere



#### Native Liquid Cooling Design with pPUE as Low as 1.06, for Commercial Use

- Native liquid cooling: non-porous riveting and retaining wall design in the node, high-efficiency cold plates and passive rear door heat exchanger (RDHx), and pPUE as low as 1.06, with TÜV SÜD pPUE certificate
- Ten years of reliability certified by TÜV Rheinland: reliability design of the rack-scale server, ensuring 10+ years of service life, with the industry's first TÜV Rheinland liquid cooling leakage-free certificate
- Large-scale commercial use, over 50,000 nodes deployed on the live network

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Slots</b>                    | <p>Up to 46 slots</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>- Slots 1–16 and 22–41: standard 1U height, for housing server nodes</li> <li>- Slots 17–21: 1.2U height, for housing switches</li> <li>- Slots 42–43: standard 1U height, for housing PDUs</li> <li>- Slots 44–46: standard 1U height, for housing PSUs</li> </ul>                                                                                                                                                  |
| <b>Server Node</b>                        | 36 x 1U nodes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>pPUE</b>                               | <ul style="list-style-type: none"> <li>- Cabinet with RDHx: pPUE as low as 1.06</li> <li>- Cabinet without RDHx: pPUE &lt; 1.2</li> </ul>                                                                                                                                                                                                                                                                                                                                                       |
| <b>Management Module</b>                  | <p>Cabinet management module</p> <ul style="list-style-type: none"> <li>- PSU, sensor, and asset management in the cabinet, cabinet-level liquid leakage monitoring</li> </ul>                                                                                                                                                                                                                                                                                                                  |
| <b>Environmental Specifications</b>       | <ul style="list-style-type: none"> <li>- Operating temperature: 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4</li> <li>- Storage temperature: <ul style="list-style-type: none"> <li>Short-term storage temperature (≤ 72 hours): -40°C to +70°C (-40°F to +158°F)</li> <li>Long-term storage temperature (&gt; 72 hours): 21°C to 27°C (69.8°F to 80.6°F)</li> </ul> </li> <li>- Maximum temperature change: 20°C (68 °F) per hour</li> </ul>                            |
| <b>Relative Humidity (Non-Condensing)</b> | <ul style="list-style-type: none"> <li>- Operating humidity: 8% to 90%</li> <li>- Short-term storage humidity (≤ 72 hours): 5% to 95%</li> <li>- Long-term storage humidity (&gt; 72 hours): 30% to 69%</li> <li>- Maximum humidity change rate: 20% per hour</li> </ul>                                                                                                                                                                                                                        |
| <b>Switching Slot</b>                     | <p>Up to 5 x switch slots</p> <ul style="list-style-type: none"> <li>- Slot 19 supports a maximum of three customized switches (including two customized service switches and one customized out-of-band management switch).</li> <li>- Each slot from slots 17/18/20/21 supports one 1U standard third-party 10GE/25GE/100GE switch or two customized service switches.</li> </ul>                                                                                                             |
| <b>Power Distribution</b>                 | <ul style="list-style-type: none"> <li>- 2N power supply system</li> <li>- Centralized power supply</li> <li>- 12 x PSUs (3 kW per PSU)</li> <li>- PSUs in N+1 or N+2 backup power supply</li> <li>- 2+2 three-phase AC power inputs</li> <li>- Voltage range: 346 V AC to 415 V AC</li> </ul>                                                                                                                                                                                                  |
| <b>Product Certification</b>              | CE and UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Max. Weight in Full Configuration</b>  | 1225 Kg (2700.66 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dimensions (W x H x D)</b>             | <ul style="list-style-type: none"> <li>- Cabinet with RDHx and without casters: 600 mm x 2200 mm x 1225 mm (23.62 in. x 86.61 in. x 48.23 in.)</li> <li>- Cabinet with RDHx and casters: 600 mm x 2250 mm x 1225 mm (23.62 in. x 88.58 in. x 48.23 in.)</li> <li>- Cabinet without RDHx and casters: 600 mm x 2200 mm x 1175 mm (23.62 in. x 86.61 in. x 46.26 in.)</li> <li>- Cabinet without RDHx and with casters: 600 mm x 2250 mm x 1175 mm (23.62 in. x 88.58 in. x 46.26 in.)</li> </ul> |

# 03

## Rack-Scale Liquid-Cooled 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, optimal 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



#### Optimal 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



#### Integrated 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

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Slots</b>                    | Up to 46 slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Server Nodes</b>                       | 32 x 1U1P nodes or 32 x 1U2P nodes                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>pPUE</b>                               | pPUE as low as 1.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Management Module</b>                  | <ul style="list-style-type: none"> <li>- Cabinet Management Module</li> <li>- PSU and sensor management in the cabinet, cabinet-level liquid leak monitoring</li> <li>- Two 10GE ports, one GE port, and one RS485 serial port</li> </ul>                                                                                                                                                                                                                                                     |
| <b>Environmental Specifications</b>       | <ul style="list-style-type: none"> <li>- Operating temperature: 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1/A2/A3</li> <li>- Storage temperature (within three months): -30°C to +60°C (-22°F to +140°F)</li> <li>- Storage temperature (within six months): -15°C to +45°C (5°F to 113°F)</li> <li>- Storage temperature (within one year): -10°C to +35°C (14°F to 95°F)</li> <li>- Maximum temperature change: 20°C (36°F) per hour, 5°C (9°F) per 15 minutes</li> </ul> |
| <b>Relative Humidity (Non-Condensing)</b> | <ul style="list-style-type: none"> <li>- Operating humidity: 8% to 90%</li> <li>- Storage humidity (within three months): 8% to 85%</li> <li>- Storage humidity (within six months): 8% to 80%</li> <li>- Storage humidity (within one year): 20% to 75%</li> <li>- Maximum humidity change rate: 20% per hour</li> </ul>                                                                                                                                                                     |
| <b>Switching Slot</b>                     | <ul style="list-style-type: none"> <li>- Up to 5 x switching slots</li> <li>- One 1U standard third-party 10GE/25GE/100GE/200GE/400GE switch per slot</li> </ul>                                                                                                                                                                                                                                                                                                                              |
| <b>Power Distribution</b>                 | <ul style="list-style-type: none"> <li>- 2N power supply system</li> <li>- Up to 36 x PSUs per cabinet (3 kW per PSU)</li> <li>- N+M hot-swappable PSU redundancy, allowing configurations such as N+1, N+2 based on power requirements</li> <li>- 3+3 three-phase AC power inputs per AC power shelf</li> <li>- Voltage range: 346 V AC to 415 V AC, 32 A current per phase</li> </ul>                                                                                                       |
| <b>Product Certification</b>              | REACH, POPs, WEEE, Packaging and Packaging Waste, RoHS, VCCI, and CB                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Max. Weight in Full Configuration</b>  | 1048 kg (2310.44 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Dimensions (W x D x H)</b>             | Cabinet with front and rear perforated doors, and front and rear enclosure frames:<br>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

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>                         | 2 x Intel® Xeon® 6 (Granite Rapids-AP) processors <ul style="list-style-type: none"><li>- Built-in memory controller and 12 memory channels per processor</li><li>- Built-in PCIe controller, supporting PCIe 5.0 and 96 lanes per processor</li><li>- 6 x UltraPath Interconnect (UPI) buses between processors, providing up to 24 GT/s transmission per channel</li><li>- Up to 128 cores</li><li>- Max. 3.9 GHz turbo frequency</li><li>- Max. 550 W TDP</li></ul> |
| <b>DIMM</b>                              | <ul style="list-style-type: none"><li>- Up to 24 x DDR5 DIMMs</li><li>- Up to 8800 MT/s</li><li>- RDIMM and MRDIMM</li></ul>                                                                                                                                                                                                                                                                                                                                           |
| <b>Local Storage</b>                     | <ul style="list-style-type: none"><li>- Flexible drive configurations with up to 4 x front drives</li><li>- Hot-swappable SAS/SATA U.2 drives</li><li>- Multiple types of RAID controller cards supported</li></ul>                                                                                                                                                                                                                                                    |
| <b>RAID</b>                              | 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                                                                                                                                                                                                                                                                                         |
| <b>Network</b>                           | Multiple network expansion capabilities; up to 2 x standard HHHL NIC slots which can be configured as required                                                                                                                                                                                                                                                                                                                                                         |
| <b>PCIe Expansion</b>                    | 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                                                                                                                                                                                                                                                                                                                                           |
| <b>Cold Plate</b>                        | CPU liquid cooling and DIMM liquid cooling (optional)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Power Supply</b>                      | 1 x 3000 W DC-DC power supply                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Management</b>                        | UEFI, xFusionBMC, and integration with third-party management systems                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>OS</b>                                | SLES, Red Hat, VMware, FusionOS, and Ubuntu                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Security</b>                          | <ul style="list-style-type: none"><li>- Power-on password and administrator password</li><li>- Secure boot and Trusted Platform Module (TPM)</li></ul>                                                                                                                                                                                                                                                                                                                 |
| <b>Operating Temperature</b>             | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Class A1 to A4                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Certification</b>                     | REACH, POPs, WEEE, Packaging and Packaging Waste, RoHS, VCCI, and CB                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Max. Weight in Full Configuration</b> | 20.36 kg (44.89 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimensions (H x W x D)</b>            | 43.2 mm x 536 mm x 900 mm (1.70 in. x 21.10 in. x 35.43 in.)                                                                                                                                                                                                                                                                                                                                                                                                           |



# 03 | Rack-Scale Server

## DH120E V7

### Introduction



DH120E V7

DH120E V7 is a next-generation 1U 2-socket liquid-cooled server designed for the Internet, IDC, cloud computing, enterprise business, and telecom service applications. DH120E V7 features flexible expansion, high performance computing, high reliability, simplified management, and easy deployment. It is ideal for core IT services, cloud computing, virtualization, scientific computing, enterprise or telecom service applications, and other complex workloads.

### Highlights

|                              |                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>             | 2 x 4th Gen Intel® Xeon® Scalable processors (Intel Eagle Stream Platform all series Sapphire Rapids processors), with TDP up to 350 W                                          |
| <b>Chipset</b>               | Emmitsburg PCH                                                                                                                                                                  |
| <b>DIMM</b>                  | Up to 32 x DDR5 DIMMs                                                                                                                                                           |
| <b>Local Storage</b>         | Multiple drive configurations with hot swap support: up to 12 x SAS/SATA/NVMe drives                                                                                            |
| <b>RAID</b>                  | 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 |
| <b>Network</b>               | Multiple network expansion capabilities; up to 4 x standard HHHL NIC slots which can be configured as required                                                                  |
| <b>PCIe Expansion</b>        | Up to 4 x PCIe 5.0 x16 HHHL slots and 1 x HHHL slot for standard RAID controller card/1 x self-developed RAID controller card                                                   |
| <b>Fan Module</b>            | 7 x hot-swappable counter-rotating fan modules in N+1 redundancy                                                                                                                |
| <b>Cold Plate</b>            | 2 x processors and VRD liquid cooling                                                                                                                                           |
| <b>Power Supply</b>          | 1 x 3000 W DC PSU                                                                                                                                                               |
| <b>Management</b>            | BMC management system for the server node                                                                                                                                       |
| <b>OS</b>                    | SLES, Red Hat, VMware, and Ubuntu                                                                                                                                               |
| <b>Security</b>              | Administrator password, TPM 2.0, and secure boot                                                                                                                                |
| <b>Operating Temperature</b> | 5°C to 45°C (41°F to 113°F), compliant with ASHRAE Classes A1 to A4                                                                                                             |
| <b>Certification</b>         | CE and UL                                                                                                                                                                       |
| <b>Dimension (H x W x D)</b> | 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



GN560E V7

64

GPUs

Peak  
computing

1.06

pPUE

Ultimate  
energy efficiency

100%

Native liquid  
cooling

Unmatched  
energy efficiency

105

kW

Ultrahigh  
power

2/3

Blind mating

Simplified  
O&M

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

# 03 | Rack-Scale Server

## FusionPoD for AI

### Technical Specifications

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Specifications      | <ul style="list-style-type: none"> <li>Operating temperature: 5°C to 40°C (41°F to 104°F), compliant with ASHRAE Classes A1 to A3</li> <li>Storage temperature (within three months): -30°C to +60°C (-22°F to +140°F)</li> <li>Storage temperature (within six months): -15°C to +45°C (5°F to 113°F)</li> <li>Storage temperature (within one year): -10°C to +35°C (14°F to 95°F)</li> <li>Maximum rate of temperature change: 20°C (36°F) per hour and 5°C (9°F) per 15 minutes</li> </ul> |
| Relative Humidity (No Condensing) | <ul style="list-style-type: none"> <li>Operating humidity: 8% to 90%</li> <li>Storage humidity (within three months): 8% to 85%</li> <li>Storage humidity (within six months): 8% to 80%</li> <li>Storage humidity (within one year): 20% to 75%</li> <li>Maximum rate of humidity change: 20% per hour</li> </ul>                                                                                                                                                                             |
| Available Space                   | <ul style="list-style-type: none"> <li>Node area: 8 x 4U server nodes</li> <li>Switch area: 5 x 1U general-purpose switches (rear ports) or 4 x 1U general-purpose switches (front ports)</li> <li>PSU area: 2 x 3U power shelves and 1 x 2U AC PDU</li> </ul>                                                                                                                                                                                                                                 |
| Server Node                       | <ul style="list-style-type: none"> <li>8 x 4U server nodes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| pPUE                              | <ul style="list-style-type: none"> <li>≥ 1.06</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Management Module                 | <ul style="list-style-type: none"> <li>Cabinet management module: 2 x 10GE ports, 1 x GE port, and 1 x RS485 serial port</li> <li>PSU, sensor, and asset management in the cabinet, and cabinet-level liquid leakage monitoring</li> </ul>                                                                                                                                                                                                                                                     |
| Switch Slot                       | <ul style="list-style-type: none"> <li>Up to 5 x slots for switches</li> <li>5 x 1U general-purpose switches (rear ports) or 4 x 1U general-purpose switches (front ports)</li> <li>1 x GE/10GE/25GE/100GE switch or 200G/400G IB switch supported by each slot</li> </ul>                                                                                                                                                                                                                     |
| Power Supply and Distribution     | <ul style="list-style-type: none"> <li>2N power supply system</li> <li>Nominal voltage output: 48 V; actual output voltage: 54.5 V</li> <li>36 x PSUs (3 kW per PSU)</li> <li>PSUs in N+M redundancy (<math>1 \leq M \leq N</math>)</li> <li>Three-phase AC power supply input (6+6); voltage range: 346 V AC to 415 V AC</li> </ul>                                                                                                                                                           |
| Certification                     | <ul style="list-style-type: none"> <li>CE, CB, and RoHS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cabinet Size (H x W x D)          | <ul style="list-style-type: none"> <li>Optical cables: 2250 mm x 600 mm x 1200 mm (88.58 in. x 23.62 in. x 47.24 in.)</li> <li>Electrical cables: 2250 mm x 600 mm x 1300 mm (88.58 in. x 23.62 in. x 51.18 in.)</li> <li>Note: Height includes height of casters. When a RDHx is included, depth increases by 125 mm (4.92 in.).</li> </ul>                                                                                                                                                   |
| Weight in Full Configuration      | <ul style="list-style-type: none"> <li>Fully-loaded cabinet: 1300 kg (2866.01 lb)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                   |

# 03 | Rack-Scale Server

## GN560E V7

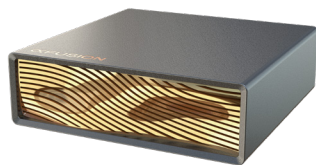
### Technical Specifications

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:<br>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:<br>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<br>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<br>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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

# 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 capabilities 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

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

1: Theoretical FP4 TOPS value using sparse computing power.



## 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



## Más Información

Para obtener más información sobre xFusion, póngase en contacto con la oficina de representación local de xFusion o visite el sitio web oficial de xFusion en [www.xfusion.com](http://www.xfusion.com).



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