

FusionServer G5200 V7 AI Server

Robust Performance, High Reliability and Security,
Efficient Energy Saving, Intelligent O&M



AI Server

FusionServer G5200 V7

Introduction



G5200 V7



G5200 V7 rear backplane

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

Highlights



Robust Performance

- Ultra-large storage: up to 28 x 2.5/3.5" SAS/SATA drives, 4 x NVMe SSDs, and 2 x M.2 SSDs
- Supreme computing power: 2 x 4th or 5th Gen Intel® Xeon® Scalable processors with up to 350 W TDP; 4 x FHFL dual-width GPU cards; GPU pass-through design, eliminating the need of PCIe switches for communication between CPUs and GPUs
- Flexible expansion: up to 10 x standard PCIe slots and 2 x OCP 3.0 NICs



High Reliability and Security

- Advanced Extended Volume Air Cooling (EVAC) ensures reliable heat dissipation and stronger temperature adaptation, providing 50% better heat dissipation capability than a single heat sink
- Unique AI memory fault self-healing ensures stable system running and reduces system downtime by 66%
- RoT-based secure boot ensures security everywhere



Efficient Energy Saving

- The unique algorithm is provided for the lowest power consumption of fans and CPUs, saving energy by up to 8% compared with the industry average
- Industry-leading power supply technology for higher efficiency: Three core technologies improve power and efficiency, enabling the industry-leading power conversion rate and the power loss 12.5% lower than the industry average
- Intelligent service awareness and dynamic load adjustment: The CPU working frequency is dynamically adjusted based on the actual service load



Intelligent O&M

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

Form Factor	4U AI server
Processor	1 or 2 x 4th/5th Gen Intel® Xeon® Scalable processors, with up to 350 W TDP per processor
Chipset	Emmitsburg PCH
Memory	32 x DDR5 DIMMs, with up to 5600 MT/s speed
Local Storage	Hot-swappable drive configurations: - Up to 28 x 2.5/3.5" SAS/SATA drives - Up to 4 x NVMe SSDs Flash storage: 2 x M.2 SSDs
RAID	RAID 0, 1, 10, 1E, 5, 50, 6, and 60; supercapacitors for cache data protection against power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
GPU Card	4 x dual-width or 10 x single-width GPU cards
Network	Multiple network expansion capabilities 2 x OCP 3.0 NICs, which can be configured as required; supporting orderly hot swap and PCIe 5.0
PCIe Expansion	Up to 10 x standard PCIe slots, supporting PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	4 x 1500 W Platinum, or 2000 W Platinum/Titanium hot-swappable PSUs with PSU1 and PSU2 in 1+1 redundancy and PSU3 and PSU4 in 1+1 redundancy
Management	The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. - The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0, provides a remote management user interface based on HTML5/VNC KVM; supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management - It is optional to configure the FusionDirector management software that provides advanced management features such as five intelligent technologies, enabling intelligent, automatic, visualized, and refined management throughout the lifecycle
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security bezel, secure boot, and chassis intrusion detection
Operating Temperature	5°C to 35°C (41°F to 95°F) , compliant with ASHRAE Class A1/A2
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 798 mm (6.89 in. x 17.60 in. x 31.42 in.)

*According to the plan, it will be realized within 2024

xFusion Digital Technologies Co., Ltd.

Consulting telephone: 400-080-6888

Technical hotline: 400-009-8999

Address: 9th Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island,
Zhengdong New District, Zhengzhou, Henan Province

Website: www.xfusion.com

Copyrights © xFusion Digital Technologies Co., Ltd 2024. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of xFusion Digital Technologies Co., Ltd.

Trademarks and Permissions

xFUSION and other xFusion trademarks are trademarks of xFusion Digital Technologies Co., Ltd. All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

In this document, "xFusion" is used to refer to "xFusion Digital Technologies Co., Ltd." for concise description and easy understanding, which does not mean that "xFusion" may have any other meaning. Any "xFusion" mentioned or described hereof may not be understood as any meaning other than "xFusion Digital Technologies Co., Ltd.", and xFusion Digital Technology Co., Ltd. shall not bear any liability resulting from the use of "xFusion".

The purchased products, services and features are stipulated by the contract made between xFusion and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied. The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.