Building an Infinite Digital World

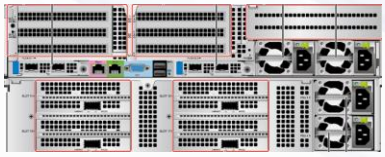
FusionServer
G5200 V7 GPU Server

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

xFusion Digital Technologies Co., Ltd.

Introduction

G5200 V7



G5200 V7 rear backplane

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

Features

Robust Performance

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

High Reliability and Security

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

Efficient Energy Saving

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

Intelligent O&M

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

Technical Specifications

Form Factor	4U GPU server
Processor	1 or 2 x 4th Gen Intel® Xeon® Scalable processors (Sapphire Rapids) with TDP up to 350 W per processor
Chipset	Emmitsburg PCH
Memory	32/16 x DDR5 DIMMs, with up to 4800 MT/s speed
Local Storage	Supports hot-swappable drives in the following configurations: • Up to 32 x 3.5-inch SAS/SATA drives • Up to 4 x NVMe SSDs • Support E1,s SSDs* • 2 x M.2 SSDs
RAID	RAID 0, 1, 10, 1E, 5, 50, 6, or 60; Supercapacitors for cache data protection from power failures; RAID level migration, drive roaming, self-diagnosis, and remote web-based configuration
GPU Card	4 x FHFL dual-width GPU cards，10 x single-width GPU cards
Network	Multiple network expansion capabilities; 2 x OCP 3.0 NICs, which can be configured as required and supports orderly hot swap, support PCIe 5.0
PCIe Expansion	Up to 10 x standard PCIe slots, support PCIe 5.0
Fan Module	8 x hot-swappable counter-rotating fan modules in N+1 redundancy
PSU	4 x hot-swappable PSUs in N+N/N+M redundancy • 1500 W AC Platinum PSUs 1000 W (input: 100 V to 127 V AC) 1500 W (input: 200 V to 240 V AC, or 192 V to 288 V DC) • 1500 W 380 V HVDC PSUs (input: 260 V to 400 V DC) • 1200 W –48 V to –60 V DC PSUs (input: –38.4 V to –72 V DC) • 3000 W AC Titanium PSUs 2500 W (input: 200 V to 220 V AC) 2900 W (input: 220 V to 230 V AC) 3000 W (input: 230 to 240 V AC) • 2000 W AC Platinum PSUs 1800 W (input: 200 V to 220 V AC, or 192 V to 200 V DC) 2000 W (input: 220 V to 240 V AC, or 200 V to 288 V DC)
Management	The iBMC chip integrates one dedicated management GE network port, providing comprehensive management features such as fault diagnosis, automatic O&M, and hardware security hardening. • The iBMC supports standard interfaces such as Redfish, SNMP, and IPMI 2.0; provides a remote management user interface based on HTML5/VNC KVM; supports out-of-band management functions such as monitoring, diagnosis, configuration, Agentless, and remote control for simplified management. • Can be configured with the FusionDirector management software to provide advanced management features such as five intelligent technologies, enabling intelligent, automatic, visualized, and refined management through the lifecycle.
OS	FusionOS, Microsoft Windows Server, SUSE Linux Enterprise Server, VMware ESXi, Red Hat Enterprise Linux, CentOS, Oracle, Ubuntu, Debian, and openEuler
Security	Power-on password, administrator password, Trusted Platform Module (TPM) 2.0, security panel, secure boot, and chassis cover opening detection
Operating Temperature	5°C to 35°C (41°F to 95°F) (compliant with ASHRAE Class A1/A2/A3)
Certification	CE, UL, CCC, FCC, VCCI, and RoHS
Installation Suite	L-shaped guide rails, adjustable guide rails, and holding rails
Dimensions (H x W x D)	175 mm x 447 mm x 798 mm (6.89 in. x 17.60 in. x 31.42 in.)

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