Maipu MPS4108GR-G3 Series GPU Server Datasheet

Overview

Maipu MPS4108GR is a 4U 8*GPU AI server, developed on the AMD EPYC Milan platform, offers powerful computing capabilities and exceptional scalability for AI computing tasks. It supports direct CPU-GPU connections for up to 8 dual-width GPU cards, making it suitable for various AI-driven workloads such as artificial intelligence, cloud computing, virtualization, big data analysis, and digital twin applications. This server features large storage capacity, strong expansion capabilities, high reliability, ease of management, and simplified deployment.

Key Features

- Supports 2 AMD EPYC Milan series processors, compatible with AMD EPYC Rome series processors, with a maximum TDP of 280W □
- Supports 32 DDR4 memory slots, with frequency support up to 3200MHz □
- **CPU-GPU direct connection** configuration, maximum support for 13*PCIe 4.0 slots, configurable with 8 dual-width, full-height, full-length GPUs □
- Supports 12*3.5"/2.5" SATA/SAS/U.2 hard drives, meeting high-speed transmission and data storage needs

Technical Specifications

Product Model	MPS4108GRD12R-G3
Form Factor	CPU-GPU Direct Connection 8-GPU, 12-Bay AI Server
External Hard Drive	Support 12*hot-swappable 3.5/2.5-inch SAS/SATA/NVMe hard drives
System Size	850mm*444.4mm*176.4mm (Depth*Width*Height)
Processor	Supports 2 AMD EPYC 7003/7002 series processors
Memory	Supports 32 DDR4 slots, up to 3200MHz
Internal Storage Interface	2*Mini SAS HD interfaces, 1*NVMe PCIe 3.0*4 interfaces
External Ports & Buttons	Front: 2*USB3.0, Rear: 1*VGA, 2*RJ45 Gigabit Ethernet ports, 1*RJ45 Gigabit Management port, 2*USB3.0
PCIe Expansion	Onboard 19 PCIe4.0 MCIOs (X8), 2 Simline 4i; Supports up to 8 PCIe 4.0 dual-width, full-height, full-length slots and 5 PCIe 4.0 single-width, full-height, full-length slots, with an optional OCP 3.0 slot
Security	Support TPM Module (Optional)
Power Supply	Optional AC 2000W/2200W/2600W CRPS 3+1 Redundant Power (adapted to actual power requirements)
FAN	12* 6056 hot-swappable N+1 redundant fans (23000±10% RPM)
BMC	ASPEED AST2500
IPMI	IPMI 2.0
Management	1*DC0 RJ45 Management Port
Temperature	Working Temperature 5°C–35°C Short-term storage (≤72 hours): -40°C ~ 70°C Long-term storage (>72 hours): 20°C ~ 28°C
Humidity	Working Humidity 20%–80%RH non-condensing Short-term storage (≤72 hours): 20% ~ 90% RH (non-condensing, including packaging) Long-term storage (>72 hours): 30% ~ 70% RH (non-condensing, including packaging)

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Maipu Communication Technology Co., Ltd
No.16, Jiuxing avenue
Hi-Tech Zone
Chengdu, Sichuan Province
P. R. China
610041
Tel: (86) 28-65544850,
Fax: (86) 28-65544948,
URL: http:// www.maipu.com
Email: overseas@maipu.com

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