

Maipu MPS102-G3 Series Rack Server Datasheet

Overview

Maipu MPS102-G3 is a high-end 1U dual-socket server, supporting 1 or 2 4th/5th generation Intel® Xeon® Scalable processors. It features 10 hard drive bays for flexible expansion. With 96% power efficiency and a standard operating temperature range of 0° C to 45° C, it delivers higher energy efficiency returns, suitable for diverse scenarios such as virtualization, cloud computing, and big data.



Key Features

- Open ecosystem design based on the OCSP standard
- Server management based on Open BMC
- Up to 32 memory slots
- Up to 12 hard drive slots
- Up to 5 PCIe slots
- Quick assembly and disassembly, with hot-swappable core components

Technical Specifications

Product Model	MPS102-G3
System Size	1U chassis 43mm (height) x 447.4mm (width) x 815mm (depth)
Processor	Supports 2 Intel Xeon 4th/5th generation processors, with maximum thermal design power of 385W (350W for air cooling), up to 64 cores supported
Memory	Supports up to 32 DDR5 memory slots, with a maximum speed of 5600MT/s, max 8TB. Support CXL 1.1(Optional)
Storage Controller	Optional high-performance RAID controller supporting RAID 0/1/10/5/6/50/60.
Storage Expansion	Front: · Supports up to 10 x 2.5" drives or 4 x 3.5" drives Rear: · Supports up to 2 x 2.5" drives or 4 x E1.S drives Internal: · Supports up to 2 x M.2 SSDs
PCIe Expansion	Up to 5 PCIe expansion slots (3 standard PCIe slots + 3 OCP 3.0 slots)
Management Software	Integrated BMC management chip AST2600, supports IPMI 2.0, Redfish, SOL, KVM, Virtual Media, and more.
I/O Interfaces	Rear: · Standard 1 x RJ45 management port, 1 x rear VGA port, 2 x USB ports, 1 x Type-C Front: · 10*SFF: 2*USB; 1*VGA+1*Type-C · 10*SFF: 2*USB; 1*VGA + 1*Type-C (supports only 9*SFF + IO board solution)
Security	Supports chassis intrusion detection, Intel PFR 3.0 and SGX 2.0 security technologies, and TCM/TPM security modules.
Power Supply	Optional 550W/800W/1300W/1600W/2000W/2600W/2700W/3200W CRPS standard power supplies, supporting 1+1 redundancy.
Operating Temperature	0°C to 45°C (operating temperature varies based on configuration, please refer to the product technical documentation for details).

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