

GPU A+ Server AS -4124GQ-TNMI

DP AMD Universal GPU System with AMD Instinct MI250 OAM

Key Applications

High Performance Computing, AI/Deep Learning Training,

Key Features

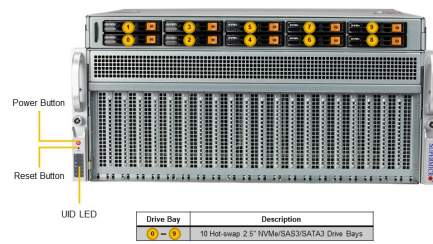
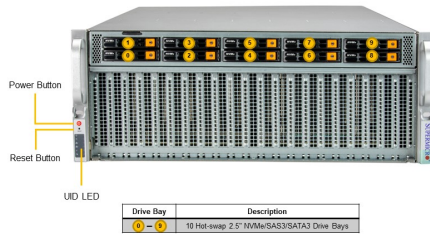
- Supports AMD Instinct™ MI200 Series Accelerators with AMD Infinity™ Fabric™ GPU-GPU Interconnect, 1:1 GPU-to-NIC ratio;
- Dual AMD EPYC™ 7003 Series Processors;
- 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs;
- 8 PCIe 4.0 x16 via PLX
2 PCIe 4.0 x16 LP via CPUs (for 5U SKU);



Form Factor	4U Rackmount Enclosure: 449 x 175.6 x 833mm (17.67" x 7" x 32.79") Package: 700 x 370 x 1260mm (27.55" x 14.57" x 49.6")
Processor	Dual Socket SP3 AMD EPYC™ 7003 Series Up to 128C/256T
GPU	Max GPU Count: 4 onboard GPUs CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: AMD Infinity Fabric™ Link
System Memory	Slot Count: 32 DIMM slots/8 Channels Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 10 bays • 10 front hot-swap 2.5" NVMe/SAS/SATA drive bays
Expansion Slots	Default • 8 PCIe 4.0 x16 via PLX slots Option A* • 8 PCIe 4.0 x16 via PLX slots • 2 PCIe 4.0 x16 LP slots
On-Board Devices	Network Connectivity: Via AIOM IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(front) Video: 1 VGA port(Front) Serial: 1 COM port

(Front View – System in 4U Configuration)

(Front View – System in 5U Configuration)



System Cooling	Fans: Up to 5 x hot-swap 11.5K RPM heavy duty Fan(s)
Power Supply	4x 3000W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash ROM
Management	Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); KVM with dedicated LAN ; IPMI 2.0; Watch Dog
PC Health Monitoring	CPU: 4+1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory Fan: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Dimensions and Weight	Weight: Gross Weight: 140 lbs (64 kg) Net Weight: 105 lbs (48 kg) Available Color: Black Front & Silver Body
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
Motherboard	Super H12DGQ-NT6
Chassis	CSE-458GTS-R3K06P