

# 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,

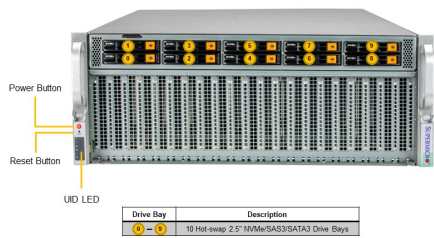
## Key Features

- 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);

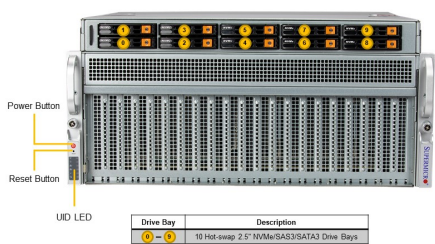


|                          |                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 4U Rackmount<br>Enclosure: 449 x 175.6 x 833mm (17.67" x 7" x 32.79")<br>Package: 700 x 370 x 1260mm (27.55" x 14.57" x 49.6")                                                                                         |
| Processor                | Dual Socket SP3<br>AMD EPYC™ 7003 Series<br>Up to 128C/256T                                                                                                                                                            |
| GPU                      | Max GPU Count: 4 onboard GPUs<br>CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: AMD Infinity Fabric™ Link                                                                         |
| System Memory            | Slot Count: 32 DIMM slots/8 Channels<br>Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM                                                                                                                    |
| Drive Bays Configuration | Default: Total 10 bays <ul style="list-style-type: none"> <li>• 10 front hot-swap 2.5" NVMe/SAS/SATA drive bays</li> </ul>                                                                                             |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 8 PCIe 4.0 x16 via PLX slots</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 8 PCIe 4.0 x16 via PLX slots</li> <li>• 2 PCIe 4.0 x16 LP slots</li> </ul> |
| On-Board Devices         | Network Connectivity: Via AIOM<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support                                                   |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(front)<br>Video: 1 VGA port(Front)<br>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<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>Fan: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control                                    |
| Dimensions and Weight | Weight: Gross Weight: 140 lbs (64 kg)<br>Net Weight: 105 lbs (48 kg)<br>Available Color: Black Front & Silver Body                                                                                                                                          |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing) |
| Motherboard           | <a href="#">Super H12DGQ-NT6</a>                                                                                                                                                                                                                            |
| Chassis               | CSE-458GTS-R3K06P                                                                                                                                                                                                                                           |