

GPU A+ Server AS -2124GQ-NART-LCC

DP AMD System with NVIDIA HGX A100 4-GPU and Liquid Cooling



Key Applications

High Performance Computing, Cloud Computing, Research Lab/National Lab, AI/Deep Learning Training and Inference, Autonomous Vehicle Technologies, Molecular Dynamics Simulation,

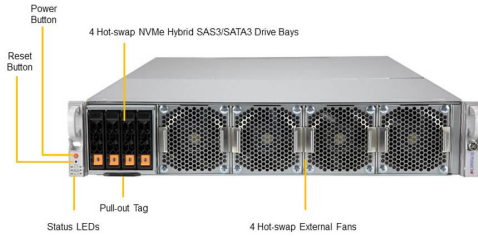
Key Features

- Dual AMD EPYC™ 7003/7002 Series Processors
(The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer);
- High Density 2U System with NVIDIA® HGX™ A100 4-GPU;
Highest GPU communication using NVIDIA® NVLINK™, 4 NICs for GPUDirect RDMA (1:1 GPU Ratio)
Supports HGX A100 4-GPU 40GB (HBM2) or 80GB (HBM2e);
- 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs;
- 4 PCI4 4.0 x16 LP + 1 PCIe 4.0 x8 LP;
- 4 Hot-swap 2.5" drive bays (SAS/SATA/NVMe Hybrid);

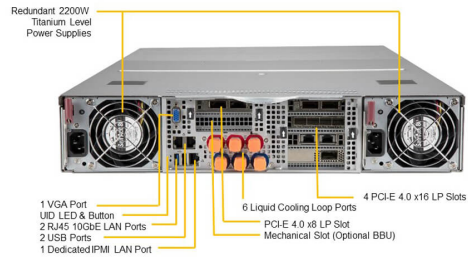


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| Form Factor | 2U Rackmount Enclosure: 437 x 89 x 830.3mm (17.2" x 3.5" x 32.7") Package: 672 x 250 x 1100mm (22.5" x 11" x 45.5") |
| Processor | Dual Socket SP3 AMD EPYC™ 7002/7003 Series Processors |
| System Memory | Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM |
| Drive Bays Configuration | Default: Total 4 bays • 4 front hot-swap 2.5" NVMe/SAS/SATA drive bays |
| Expansion Slots | Default • 4 PCIe 4.0 x16 LP slots • 1 PCIe 4.0 x8 LP slot |
| On-Board Devices | Network Connectivity: 2 RJ45 10GbE 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 2 RJ45 10 GbE LAN ports USB: 2 USB 3.0 ports(rear) Video: 1 VGA port(Rear) |

(Front View – System)



(Rear View – System)



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| System Cooling | Fans: Up to 4 Hot-swap heavy duty Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate |
| Power Supply | 2x 2200W Redundant (1 + 1) Platinum Level (94%) 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 Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors |
| Dimensions and Weight | Weight: N/A Available Color: 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 H12DSG-Q-CPU6 |
| Chassis | CSE-228GTS-R2K21P |