GPU A+ Server AS -4124GO-NART+

DP AMD System with NVIDIA HGX A100 8-GPU and 3000W Power Supply

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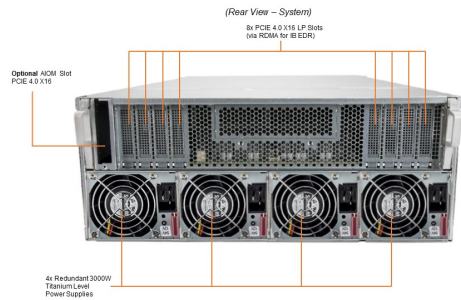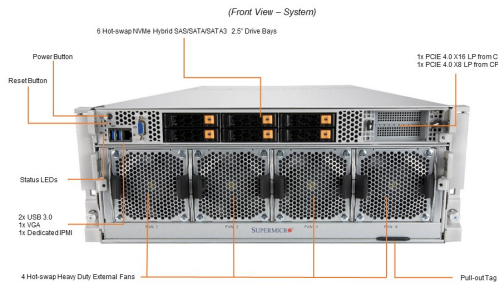More details here
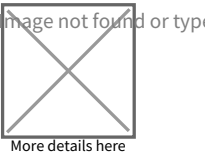
Key Applications

HPC, AI / Deep Learning,

Key Features

- Supports NVIDIA® HGX™ A100 8-GPU
  Highest GPU communication using NVIDIA® NVLINK™ v3.0 + NVIDIA® NVSwitch™
  NICs for GPUDirect RDMA (1:1 GPU Ratio)
  Supports HGX A100 8-GPU 40GB (HBM2) or 80GB (HBM2e);
- 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);
- 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs;
- 8 PCIe 4.0 x16 via PCIe switch
  1 PCIe 4.0 x 16 LP and 1 PCIe 4.0 x8 LP via CPUs
  AIOM Support;
- 6 Hot-swap 2.5" NVMe drive bays
  (4 via PCIe switch, 2 via CPU)
  Up to 10 NVMe 2.5" drives available with an optional 4 drive bays at rear of system;

Form Factor	4U Rackmount Enclosure: 446 x 174 x 900mm (17.6" x 6.9" x 35.4") Package: 695 x 750 x 1140mm (27.4" x 29.5" x 44.9")
Processor	Dual Socket SP3 AMD EPYC™ 7002/7003 Series Processors
GPU	Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX A100 8-GPU (80GB) GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM

Drive Bays Configuration	Default: Total 6 bays
	  • 6 front hot-swap 2.5" NVMe drive bays
	Option A: Total 10 bays
	  • 6 front hot-swap 2.5" NVMe drive bays
	  • 4 rear hot-swap 2.5" NVMe drive bays
	M.2: 2 M.2 NVMe slots (M-key)

Expansion Slots	PCI-Express (PCIe) Configuration: Default
	  • 1 PCIe 4.0 x16 LP slot
	  • 1 PCIe 4.0 x8 LP slot
	M.2: 2 M.2 PCIe 4.0 x4 slots (M-key 22110)

On-Board Devices	Chipset: System on Chip Network Connectivity: Ethernet 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)

(Front View – System)

6 Hot-swap NVMe Hybrid SAS/SATA/SATA3 2.5" Drive Bays

Power Button
Reset Button

1x PCIE 4.0 X16 LP from CPU
1x PCIE 4.0 X8 LP from CPU

Status LEDs

2x USB 3.0
1x VGA
1x Dedicated IPMI

4 Hot-swap Heavy Duty External Fans

Pull-out Tag

(Rear View – System)

8x PCIE 4.0 X16 LP Slots
(via RDMA for IB EDR)

Optional AIOM Slot
PCIE 4.0 X16

4x Redundant 3000W
Titanium Level
Power Supplies

System Cooling	Fans: Up to 4 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: Monitors for CPU Cores, Chipset Voltages, Memory
	    4+1 Phase-switching voltage regulator
	FAN: Fans with tachometer monitoring
	    Status monitor for speed control
	    Pulse Width Modulated (PWM) fan connectors
	Temperature: Monitoring for CPU and chassis environment
	        Thermal Control for fan connectors

Dimensions and Weight	Weight: Gross Weight: 225 lbs (102.1 kg) Net Weight: 166 lbs (75.3 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 H12DGO-6**
Chassis	**CSE-438G**