

GPU A+ Server AS -4124GS-TNR+

DP AMD, Dual-Root System with 8 GPUs



Key Applications

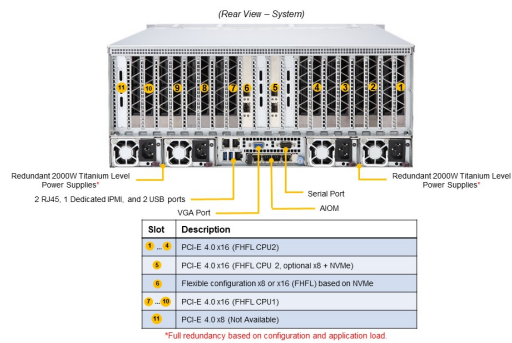
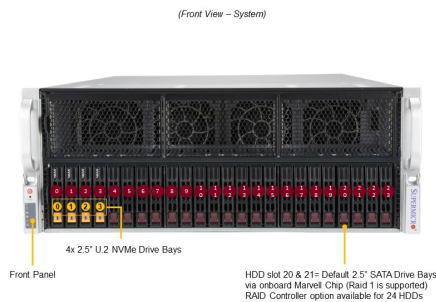
HPC, AI / Deep Learning, Cloud Gaming, Molecular Dynamics Simulation,

Key Features

- Supports up to 8 double-width GPUs Direct connect for maximum performance;
- Dual AMD EPYC™ 7003/7002 Series Processors;
- 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs;
- 9 PCIe 4.0 x16 (option: 10 PCIe 4.0 x16 slots without NVMe devices);
- Up to 24 hot-swap 2.5" drive bays
Dual 2.5" SATA in RAID 1 via onboard Marvell 9230
Quad 2.5" PCIe4.0 NVMe (depends on PCIe quantity based on #4) RAID controller, option available for 24 HDDs;



Form Factor	4U Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: 685 x 675 x 1041mm (27" x 26.57" x 41")
Processor	Dual Socket SP3 AMD EPYC™ 7002/7003 Series Processors
GPU	Max GPU Count: Up to 8 double-width or 8 single-width GPUs Supported GPU: NVIDIA PCIe: H100, A10, A100, A16, A2, A30, A40, L40, L40S, RTX 4000, RTX 6000, RTX 6000 Ada Generation, RTX A4500, RTX A6000, T4, V100 AMD PCIe: Instinct™ MI150 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect 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 24 bays • 20 front hot-swap 2.5" SATA drive bays • 4 front hot-swap 2.5" NVMe drive bays Option A: Total 24 bays • 24 front hot-swap 2.5" SATA drive bays
Expansion Slots	Default • 9 PCIe 4.0 x16 FHFL slots Option A • 10 PCIe 4.0 x16 FHFL slots
On-Board Devices	2 RJ45 1GbE
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 1 GbE LAN ports USB: 2 USB 3.0 ports(front) Video: 1 VGA port



System Cooling	Fans: Up to 8x 11.5K RPM 92mm Fan(s)
Power Supply	4x 2000W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
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: Gross Weight: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg) Available Color: Black
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-O-CPU
Chassis	CSE-418GTS-R4016BP