

GPU A+ Server AS -4124GS-TNR+

DP AMD, Dual-Root System with 8 GPUs ;

[./files_SYS/images/System/AS -4124GS-TNR+ main.jpg](#)

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

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Specifications

Product SKUs A+ Server AS -4124GS-TNR+		Chassis Form Factor 4U	
Motherboard Super H12DSG-O-CPU (https://www.supermicro.com/en/products/motherboard/h12ds-g12-o-cpu)		Model CSE-418GTS-R4016BP	
Processor CPU Dual SP3 AMD EPYC™ 7002/7003 Series Processors (https://www.supermicro.com/en/support/resources/cpu-amd-epyc-9005-9004-7003)		Dimensions and Weight Height 7" (178 mm) Width 17.2" (437 mm) Depth 29" (737 mm) Package 26.57" (H) x 27" (W) x 41" (D) Weight Gross Weight: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg)	
Note Supports up to 280W TDP CPUs (Air Cooled)		Available Color Black	
GPU Max GPU Count Up to 8 double-width or 8 single-width GPUs Supported GPU NVIDIA PCIe: H100, A100, A2, A16, A30, A40, L4 A10, RTX 6000, RTX 6000 Ada Generation, RTX A6000, T4, V100, L40, RTX 4000 AMD PCIe: Instinct™ MI150 (https://www.supermicro.com/en/support/resources/gpu?rsc=fltr_sku%3DAS%20-4124GS)		Expansion Slots PCI-Express (PCIe) Configuration Default 9 PCIe 4.0 x16 FHFL slots Option A 10 PCIe 4.0 x16 FHFL slots View AOC Options	
CPU-GPU Interconnect PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect NVIDIA® NVLink® with NVSwitch™		Drive Bays / Storage 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 View NVMe Options View Drive Options	
System Memory Memory Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC RDIMM/LRDIMM (View Memory Options)		System Cooling Fans 8x 11.5K RPM 92mm Fan(s)	
Memory Voltage 1.2V		Power Supply	
On-Board Devices Chipset System on Chip Network Connectivity 2 RJ45 1GbE (View AOC Options)			
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 BIOS BIOS Type AMI 32MB SPI FLASH ROM			
Management			

Software	SuperCloud Composer® (https://www.supermicro.com/en/solutions/element-software/supercloud-composer), Supermicro Server Manager (SSM) , (https://www.supermicro.com/en/solutions/element-software/supermicro-server-manager) Supermicro Update Manager (SUM) , (https://www.supermicro.com/en/solutions/element-software/supermicro-update-manager) Supermicro SuperDoctor® 5 (SD5) , (https://www.supermicro.com/en/solutions/element-software/superdoctor), Super Diagnostics Offline (SDO) , (https://www.supermicro.com/en/solutions/element-software/superdiagnostics-offline), Supermicro Thin-Agent Service (TAS) , (https://www.supermicro.com/en/solutions/element-software/thin-agent-service), SuperServer Automation Assistant (SAA) New (https://www.supermicro.com/en/solutions/element-software/superserver-automation-assistant)		4x 2000W
		4x 2000W Redundant (2 + 2) Titanium Level (96%) power supplies	
		73.5 x 40 x 203 mm	
	Dimension (WxHxL)		
	Input	1000W: 100-127Vac 1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac 1980W: 220-230Vac / 50-60Hz 2000W: 220-240Vac 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc 2000W: 230-240Vac 2000W: 230-240Vac / 50-60Hz 2000W: 230-240Vdc / 50-60Hz (for China only)	
	+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac)	
	12V SB	Max: 3.5A / Min: 0A Max: 3.5A	
	Output Type	Backplanes (gold finger)	
	Operating Environment		
	ROHS	RoHS Compliant	
	Environmental Spec.	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)	
Security Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Con		
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery System Lockdown		
PC Health Monitoring			
CPU	Monitors for CPU Cores, Chipset Voltages, Mer 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		

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SCHEDULE ACCESS (<https://www.supermicro.com/JumpStart/Schedule/SKU/AS%20-4124GS-TNR+>).

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