

GPU SuperServer ARS-222GL-NR

2U air-cooled system with dual NVIDIA Vera CPUs



Key Applications

High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) Natural Language Processing,

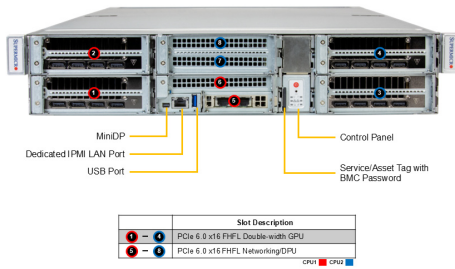
Key Features

- NVIDIA Vera C2 CPU featuring 176 cores, 352 threads with spatial multithreading;
- Support for up to 4 double-width GPU accelerator cards. Support for up to 4 NVIDIA RTX PRO™ 6000 Blackwell Server Edition or up to 6 NVIDIA RTX PRO™ 4500 Blackwell Server Edition GPUs;
- Supports up to 1.5TB SOCAMM2 LPDDR5X per CPU;
- Up to 3 PCIe 6.0;
- Up to 8 hot-swap E1.S drive bays +2 M.2 NVMe;
- 4 Redundant 3000W (3+1) Titanium Power Supply;
- 2U Rackmount chassis with 35.43" (900mm) depth;



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| Form Factor | 2U Rackmount Enclosure: 438.4 x 87 x 900mm (17.3" x 3.43" x 35.43") Package: 700 x 280 x 1200mm (27.56" x 11.02" x 47.24") |
| Processor | Dual processor(s) NVIDIA Vera CPU C2 (88-core) |
| GPU | Max GPU Count: Up to 4 double-width GPUs Supported GPU: NVIDIA PCIe: NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional) |
| System Memory | Slot Count: Onboard Memory Max Memory: Up to 1.5TB ECC LPDDR5X |
| Drive Bays Configuration | Default: Total 8 bays • 8 front hot-swap E1.S NVMe drive bays M.2: 2 M.2 NVMe/SATA slots (M-key) |
| Expansion Slots | PCI-Express (PCIe) Configuration: Default • 3 PCIe 6.0 x16 FHFL double-width slots CXL Support: Up to 1 CXL 2.0 x16 devices |
| On-Board Devices | Chipset: System on Chip 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: 1 port(Rear) Video: 1 mini-DP port |

(Front View – System)



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|-----------------------|---|
| System Cooling | Fans: Up to 5x 8cm heavy duty fans with optimal fan speed control |
| Power Supply | 4x 3000W Redundant (3 + 1) Titanium Level (96%) power supplies |
| System BIOS | BIOS Type: AMI 32MB SPI Flash EEPROM |
| Management | Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro SuperDoctor® 5 (SD5); KVM with dedicated LAN ; IPMI 2.0; OOB Management Package (SFT-OOB-LIC); SMCIPMITool; IPMIView |
| PC Health Monitoring | CPU: 8+4 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: 103 lbs (46.8 kg) Net Weight: 88 lbs (40 kg) Available Color: Silver |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing) |
| Motherboard | Super G3DBV |
| Chassis | CSE-MG204-R000NDFP |