

GPU SuperServer ARS-221GL-NR


[More details here](#)

Key Applications

High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) Natural Language Processing, General purpose CPU workloads, including analytics, data science, simulation, HPC, application servers, and more,

Key Features

- PCIe-based H100 NVL with NVLink Support; Highest GPU communication using NVIDIA® NVLINK™; High density 2U GPU system with up to 4 NVIDIA® H100 PCIe GPUs;
- Energy-Efficient NVIDIA Grace™ CPU Superchip with 144 Cores;
- 480GB or 240GB LPDDR5X onboard memory option for minimum latency and maximum power efficiency;
- 7 PCIe 5.0 x16 FHFL Slots;
- NVIDIA BlueField-3 Data Processing Unit Support for the most demanding accelerated computing workloads.;
- E1.S NVMe Storage Support;



Form Factor

2U Rackmount
Enclosure: 438.4 x 88 x 900mm (17.25" x 3.46" x 35.43")
Package: (22.5" x 11" x 45.5")

Processor

NVIDIA Grace™ CPU Superchip
Up to 144C/288T
Supports up to 500W TDP CPUs (Air Cooled)

System Memory

Memory Capacity: 0 DIMM slots
Up to 480GB: Onboard LPDDR5X DRAM
Memory Type: 4800MHz ECC DDR5 DRAM (LPDDR5X)

Drive Bays

16x E1.S hot-swap NVMe drive slots

Expansion Slots

7 PCIe 5.0 x16 FHFL slot(s)

On-Board Devices

Chipset: System on Chip
Network Connectivity: 1x 10GbE BaseT with NVIDIA ConnectX®-7 or Bluefield®-3 DPU
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

Video: 1 VGA port(s)

System Cooling	6 heavy duty fan(s)
Power Supply	2000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API; OOB Management Package (SFT-OOB-LIC)
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 8+4 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	Height: 3.46" (88 mm) Width: 17.25" (438.4 mm) Depth: 35.43" (900 mm) Gross Weight: 86.5 lbs (39.2 kg) Net Weight: 67.5 lbs (30.6 kg) Packaging: 11" x 22.5" x 45.5" Available Color: Black Front & Silver Body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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 G1SMH
Chassis	CSE-GP201TS-R000NP