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# GPU SuperServer ARS-221GL-NR

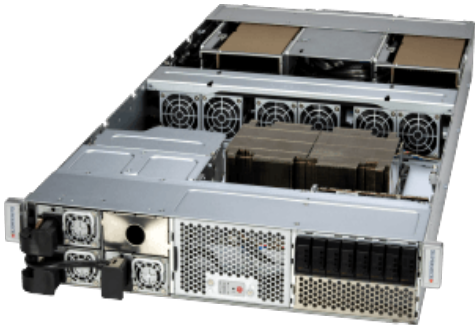
2U NVIDIA Grace Super Chip with Support for 4 PCIe based GPUs

## 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;



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|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor      | 2U Rackmount<br>Enclosure: 438.4 x 88 x 900mm (17.25" x 3.46" x 35.43")<br>Package: (22.5" x 11" x 45.5")                                                                                                                                         |
| Processor        | Dual C2<br>NVIDIA Grace™ CPU Superchip<br>Up to 144C/288T                                                                                                                                                                                         |
| GPU              | Supported GPU: NVIDIA PCIe: A100, H100, H100 NVL, L40, L40S<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: NVIDIA® NVLink® Bridge (optional)                                                              |
| System Memory    | Up to 480GB: Onboard LPDDR5X DRAM<br>Memory Type: 4800MHz ECC DDR5 DRAM (LPDDR5X)                                                                                                                                                                 |
| Drive Bays       | 8x E1.S hot-swap NVMe drive slots                                                                                                                                                                                                                 |
| Expansion Slots  | 7 PCIe 5.0 x16 FHFL slot(s)                                                                                                                                                                                                                       |
| On-Board Devices | Chipset: System on Chip<br>Network Connectivity: 1x 10GbE BaseT with NVIDIA ConnectX®-7 or Bluefield®-3 DPU<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Input / Output   | Video: 1 VGA port(s)                                                                                                                                                                                                                              |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: 6 heavy duty fans with optimal fan speed control                                                                                                                                                                                                                                                                    |
| 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<br>8+4 Phase-switching voltage regulator<br>FAN: Fans with tachometer monitoring<br>Status monitor for speed control<br>Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Height: 3.46" (88 mm)<br>Width: 17.25" (438.4 mm)<br>Depth: 35.43" (900 mm)<br>Gross Weight: 86.5 lbs (39.2 kg)<br>Net Weight: 67.5 lbs (30.6 kg)<br>Packaging: 11" x 22.5" x 45.5"<br>Available Color: Black front & silver body                                                                                         |
| Operating Environment | Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)                                                                                   |
| Motherboard           | <a href="#">Super G1SMH</a>                                                                                                                                                                                                                                                                                               |
| Chassis               | CSE-GP201TS-R000NP                                                                                                                                                                                                                                                                                                        |