Arm-based (ARS) | 2U Rackmount | GPU Server

Supermicro ARS-221GL-NR

Arm-based (ARS) · 2U Rackmount · GPU Server Server

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Form Factor **2U Rackmount**	CPU **NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip**
GPU **Up to 2 double-width GPUs**	Memory **Onboard Memory**

Key Features

- High density 2U GPU system with up to 2 NVIDIA® PCIe GPUsPCIe-based NVIDIA H100 NVL and NVIDIA L40s
- Energy-Efficient NVIDIA Grace™ CPU Superchip with 144 Cores
- Up to 960GB ECC LPDDR5X onboard memory option for minimum latency and maximum power efficiency
- 5 PCIe 5.0 x16 FHFL Slots
- 4 E1.S NVMe Storage Support

Form Factor	2U Rackmount
Platform	Arm-based (ARS)
CPU	Dual processor(s) NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip
Max GPU Count	Up to 2 double-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), L40S
Memory	Onboard Memory Up to 960GB ECC LPDDR5X
Drive Bays	Default: Total 4 bays4 front hot-swap E1.S NVMe drive bays
Fans	Up to 6 heavy duty fans with optimal fan speed control
Power Supply	3x 2000W Redundant Titanium Level (96%) power supplies

Full Specifications — ARS-221GL-NR

Product SKUs

Part numbers	ARS-221GL-NR

Motherboard

Motherboard	Super G1SMH

Processor

CPU	Dual processor(s) NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip
Note	Supports up to 600W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 double-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), L40S View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	PCIe

System Memory

Memory	Onboard Memory Up to 960GB ECC LPDDR5X

On-Board Devices

Network Connectivity	1 RJ45 1GbE View AOC Options
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	2 USB 3.0 Type-A ports (Rear)
Video	1 mini-DP port
TPM	1 TPM Onboard/port 80

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM

Management

Software	Redfish API Supermicro Update Manager (SUM) KVM with dedicated LAN IPMI 2.0 Watch Dog OOB Management Package (SFT-OOB-LIC)
Power configurations	Power-on mode for AC power recovery ACPI Power Management

PC Health Monitoring

CPU	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

Certifications

Operating Systems	RHEL 9.3, SLES 15 SP6, SystemReady 2.5 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-GP201TS-R000NP

Dimensions and Weight

Height	3.46" (88 mm)
Width	17.25" (438.4 mm)
Depth	35.43" (900 mm)
Package	11" (H) x 22.5" (W) x 45.5" (D)
Weight	Gross Weight: 86.5 lbs (39.2 kg) Net Weight: 67.5 lbs (30.6 kg)
Available Color	Black front & silver body

Front Panel

Buttons	Power On/Off button System Reset button

LED	Hard drive activity LED Network activity LEDs Power status LED System Overheat & Power Fail LED

Expansion Slots

PCI-Express (PCIe) Configuration	Default3 PCIe 5.0 x16 FHFL slots 2 PCIe 5.0 x16 FHFL double-width slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 4 bays4 front hot-swap E1.S NVMe drive bays
M.2	2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110) View M.2 Options

System Cooling

Fans	Up to 6 heavy duty fans with optimal fan speed control

Power Supply

3x 2000W Redundant Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc / 50-60Hz (for CQC 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
Output Type	Backplanes (gold finger)

Operating Environment

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)