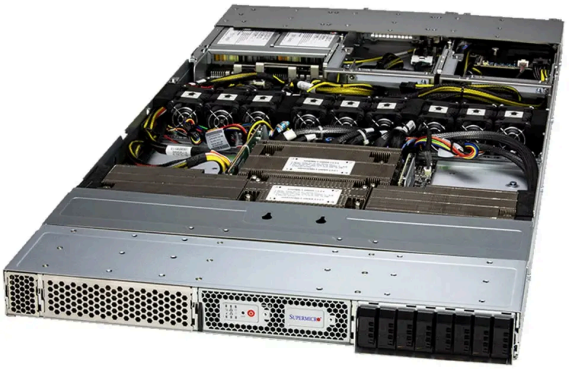
Arm-based (ARS) | 1U Rackmount | GPU Server

# Supermicro ARS-111GL-NHR

## Arm-based (ARS) · 1U Rackmount · GPU Server Server

Specifications reproduced from the official Supermicro product page, as of 17 Nov 2026. Taknet Systems (Thailand) is a Supermicro Authorized Distributor.



| Form Factor | CPU |
|---|---|
| 1U Rackmount | NVIDIA 72-core NVIDIA Grace CPU on GH200 Grace Hopper™ Superchip |
| **GPU** | **Memory** |
| 1 onboard GPU | Onboard Memory |

## Key Features

- High density 1U GPU system with Integrated NVIDIA® H100 GPU
- NVIDIA Grace Hopper™ Superchip (Grace CPU and H100 GPU)
- NVLink® Chip-2-Chip (C2C) high-bandwidth, low-latency interconnect between CPU and GPU at 900GB/s
- Up to 576GB of coherent memory per node including 480GB LPDDR5X and 96GB of HBM3 for LLM applications
- 2x PCIe 5.0 x16 slots supporting NVIDIA BlueField®-3 or ConnectX®-7
- 9 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control
- This system supports two E1.S drives directly from the processor only.

| | |
|---|---|
| **Form Factor** | 1U Rackmount |
| **Platform** | Arm-based (ARS) |
| **CPU** | NVIDIA 72-core NVIDIA Grace CPU on GH200 Grace Hopper™ Superchip |
| **Max GPU Count** | 1 onboard GPU |
| **Supported GPU** | NVIDIA: H100 Tensor Core GPU on GH200 Grace Hopper™ Superchip (Air-cooled) |
| **Memory** | Onboard Memory<br>Up to 480GB ECC LPDDR5X |
| **Drive Bays** | Default: Total 8 bays8 front fixed E1.S NVMe drive bays |
| **Fans** | Up to 9 Removable heavy-duty 4cm Fan(s) |
| **Power Supply** | 2x 2000W Redundant Titanium Level (96%) power supplies |

# Full Specifications — ARS-111GL-NHR

## Motherboard

| | |
|---|---|
| **Motherboard** | ARS-111GL-NHR<br>Super G1SMH-G |

## Processor

| | |
|---|---|
| **CPU** | NVIDIA 72-core NVIDIA Grace CPU on GH200 Grace Hopper™ Superchip |
| **Core Count** | Up to 72C/72T; Up to 117MB Cache |
| **Note** | Supports up to 1000W TDP CPUs (Air Cooled) |

## GPU

| | |
|---|---|
| **Max GPU Count** | 1 onboard GPU |
| **Supported GPU** | NVIDIA: H100 Tensor Core GPU on GH200 Grace Hopper™ Superchip (Air-cooled)<br>View GPU Options |
| **CPU-GPU Interconnect** | NVIDIA NVLink®-C2C |

## System Memory

| | |
|---|---|
| **Memory** | Onboard Memory<br>Up to 480GB ECC LPDDR5X<br>Additional GPU Memory: Up to 96GB ECC HBM3 |

## On-Board Devices

| | |
|---|---|
| **Chipset** | NVIDIA System on Chip |
| **Network Connectivity** | View AOC Options |

## Input / Output

| | |
|---|---|
| **LAN** | 1 RJ45 1 GbE Dedicated BMC LAN port |
| **USB** | 1 USB 3.0 port (Rear) |
| **Video** | 1 mini-DP port |
| **TPM** | 1 TPM Onboard/port 80 |

## System BIOS

| | |
|---|---|
| **BIOS Type** | AMI 64MB SPI Flash EEPROM |

## Management

| | |
|---|---|
| **Power configurations** | Power-on mode for AC power recovery<br>ACPI Power Management |

## PC Health Monitoring

| | |
|---|---|
| **CPU** | Monitors for CPU Cores, Chipset Voltages, Memory |
| **Fan** | Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control |
| **Temperature** | Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |

## Certifications

| | |
|---|---|
| **Operating Systems** | RHEL 9.2, RHEL 10.0, SystemReady 2.5<br>View all OS Compatibility and Certification Matrix |

## Chassis

| | |
|---|---|
| **Form Factor** | 1U Rackmount |
| **Model** | CSE-MG102TS-R000NDFP |

## Dimensions and Weight

| | |
|---|---|
| **Height** | 1.7" (43.6 mm) |
| **Width** | 17.26" (438.4 mm) |
| **Depth** | 35.4" (900 mm) |
| **Package** | 9.05" (H) x 27.36" (W) x 46.06" (D) |
| **Weight** | Gross Weight: 49.49 lbs (22.45 kg)<br>Net Weight: 33.84 lbs (15.35 kg) |
| **Available Color** | Silver |

## Front Panel

| | |
|---|---|
| **Buttons** | Power On/Off button |

## Expansion Slots

| | |
|---|---|
| **PCI-Express (PCIe) Configuration** | Default2 PCIe 5.0 x16 FHFL slots<br>View AOC Options |

## Drive Bays / Storage

| | |
|---|---|
| **Drive Bays Configuration** | Default: Total 8 bays8 front fixed E1.S NVMe drive bays |
| **M.2** | 2 M.2 NVMe slots (M-key)<br>View M.2 Options |

## System Cooling

| | |
|---|---|
| **Fans** | Up to 9 Removable heavy-duty 4cm Fan(s) |

## Power Supply

### 2x 2000W Redundant Titanium Level (96%) power supplies

| | |
|---|---|
| **Dimension (WxHxL)** | 73.5 x 40 x 185 mm |
| **Input** | 1000W: 100-127Vac / 50-60Hz<br>1800W: 200-220Vac / 50-60Hz<br>1980W: 220-230Vac / 50-60Hz<br>2000W: 230-240Vac / 50-60Hz<br>2000W: 220-240Vac / 50-60Hz (for UL only)<br>2000W: 230-240Vdc / 50-60Hz (for CQC only) |
| **+12V** | Max: 83A / Min: 0A (100Vac-127Vac)<br>Max: 150A / Min: 0A (200Vac-220Vac)<br>Max: 165A / Min: 0A (220Vac-230Vac)<br>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)<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) |