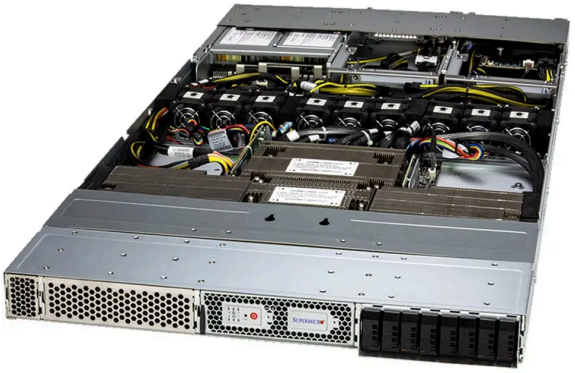
Arm-based (ARS) | 1U Rackmount | GPU Server

Supermicro ARS-111GL-SHR

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

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

Key Features

- NVIDIA GH200 Grace Hopper™ Superchip, up to 72 cores
- Up to 480GB ECC LPDDR5X embedded on the NVIDIA Superchip
- Up to 3 PCIe 5.0 x16 FHFL slots
- Up to 8 front hot-swap E1.S NVMe drive baysSupports 8 E1.S Drives as opposed to NHR version which supports 2.
- 2 Redundant 2000W Titanium Level power supplies
- Support for up to 1 embedded on the NVIDIA Grace Hopper Superchip:qty string GPU accelerator cardsSupports 8 E1.S DrivesDC-SCM Support
- 1U Rackmount chassis with 37" (940mm) depth

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
Memory	Onboard Memory Up to 480GB ECC LPDDR5X
Drive Bays	Default: Total 8 bays8 front hot-swap 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-SHR

Motherboard

Motherboard	ARS-111GL-SHR 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
CPU-GPU Interconnect	NVIDIA NVLink®-C2C

System Memory

Memory	Onboard Memory Up to 480GB ECC LPDDR5X 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 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 9.2 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) Net Weight: 33.84 lbs (15.35 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off button

Expansion Slots

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

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap E1.S NVMe drive bays
M.2	2 M.2 NVMe slots (M-key) 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 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)