

Storage SuperServer ARS-121L-NE316R

1U NVIDIA Grace CPU Superchip system supporting NVIDIA BlueField®-3 or NVIDIA Connect®X-7



More details here

Key Applications

Software-defined Storage, In-Memory Computing, Data Intensive HPC, Private & Hybrid Cloud, NVMe Over Fabrics Solution,

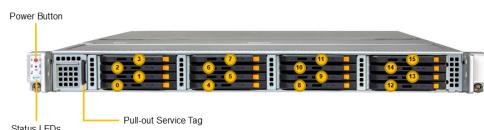
Key Features

- NVIDIA Grace™ CPU Superchip (Dual-Core), 144 ARM v9 cores, TDP 500W;
- Up to 960GB LPDDR onboard memory;
- 2 PCIe 5.0 x16 FHHL slots & 2 AIOM connector (OCP 3.0 SFF Compliant);
- 16 Front Hot-Swap E3.S (7.5mm) NVMe drive bays;
- Redundant Titanium 1600W Power Supplies;



Form Factor	1U Rackmount Enclosure: 438.4 x 43.6 x 784.85mm (17.2" x 1.7" x 30.9") Package: 680 x 242 x 1108mm (26.77" x 9.52" x 43.62")
Processor	Dual processor(s) NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip
System Memory	Slot Count: Onboard Memory Max Memory: Up to 960GB ECC LPDDR5X
Drive Bays Configuration	Default: Total 16 bays <ul style="list-style-type: none">• 16 front hot-swap E3.S 1T NVMe drive baysM.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default))
Expansion Slots	Default <ul style="list-style-type: none">• 2 PCIe 5.0 x16 (in x16) FHHL slots Option A <ul style="list-style-type: none">• 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)
On-Board Devices	System on Chip
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 1 USB 3.0 Type-A port(Rear) Video: 1 mini-DP port

(Front View – System)



Drive Bay	Description
1 - 16	16 Hot-swap E3.5 (7.5mm) NVMe Drive Bays

(Rear View – System)



Slot	Slot Description
PCIe 5.0 x16 FHHL	PCIe 5.0 x16 FHHL
PCIe 5.0 x16 AIO/M	PCIe 5.0 x16 AIO/M

System Cooling

Fans: Up to 8 Removable heavy-duty 4cm Fan(s)

Power Supply

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

System BIOS

BIOS Type: AMI 64MB SPI Flash EEPROM

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

Dimensions and Weight

Weight: Gross Weight: 66.8 lbs (30.3 kg)

Net Weight: 43.6 lbs (19.8 kg)

Available Color: Silver

Operating Environment

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)

Motherboard

[Super G1SMP](#)

Chassis

[CSE-SG101E3-R000NDP](#)