# 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;
- Reduntant Titanium 1600W Power Supplies;

| | |
|---|---|
| Form Factor | 1U Rackmount<br>Enclosure: 438.4 x 43.6 x 784.85mm (17.2" x 1.7" x 30.9")<br>Package: 680 x 242 x 1108mm (26.77" x 9.52" x 43.62") |
| Processor | Dual processor(s)<br>NVIDIA Dual 72-core CPUs on a Grace™ CPU Superchip |
| System Memory | Onboard Memory<br>Up to 960GB ECC LPDDR5X |
| Drive Bays Configuration | Default: Total 16 bays<br>• 16 front hot-swap E3.S 1T NVMe drive bays<br>M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default)) |
| Expansion Slots | Default<br>• 2 PCIe 5.0 x16 (in x16) FHHL slots<br>Option A<br>• 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 1 USB 3.0 Type-A port (Rear)<br>Video: 1 mini-DP port |

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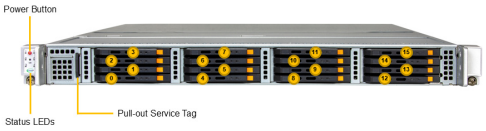
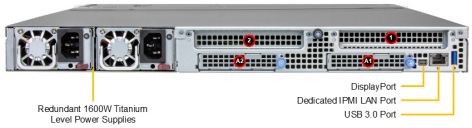
*(Front View – System)*




| Drive Bay | Description |
|---|---|
| 0 – 15 | 16 Hot-swap E3.S (7.5mm) NVMe Drive Bays |

*(Rear View – System)*




| | Slot Description |
|---|---|
| 1 2 | PCIe 5.0 x16 FHHL |
| A1 A2 | PCIe 5.0 x16 AIOM |

| | |
|---|---|
| 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<br>Fan: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 66.8 lbs (30.3 kg)<br>Net Weight: 43.6 lbs (19.8 kg)<br>Available Color: Silver |
| Operating Environment | 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) |
| Motherboard | **Super G1SMP** |
| Chassis | **CSE-SG101E3-R000NDP** |

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