



# Storage SuperServer ARS-121L-NE316R

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

## Key Applications

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

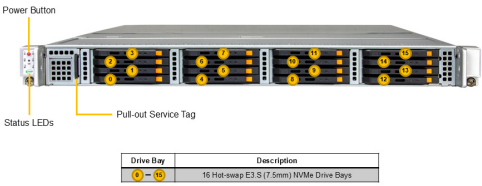
## Key Features

- 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;

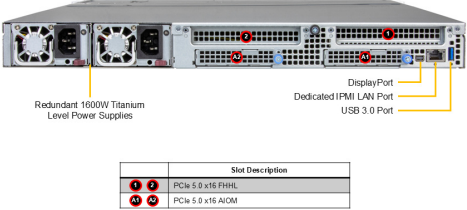


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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form 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            | Slot Count: Onboard Memory<br>Max Memory: Up to 960GB ECC LPDDR5X                                                                                                                                                   |
| Drive Bays Configuration | Default: Total 16 bays <ul style="list-style-type: none"> <li>• 16 front hot-swap E3.S 1T NVMe drive bays</li> </ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default))                                       |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 (in x16) FHHL slots</li> </ul> Option A <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)</li> </ul> |
| On-Board Devices         | System on Chip                                                                                                                                                                                                      |
| 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                                                                                                               |

(Front View – System)



(Rear View – System)



|                       |                                                                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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           | <a href="#">Super G1SMP</a>                                                                                                                                                                                                                                                      |
| Chassis               | CSE-SG101E3-R000NDP                                                                                                                                                                                                                                                              |