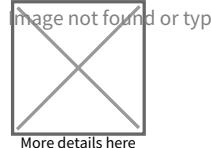


# MegaDC SuperServer ARS-520M-NRL

2U UP MegaDC with 4 hot-swap 3.5"/2.5" NVMe/SAS/SATA drives + 8 hot-swap 3.5"/2.5" SAS/SATA drives



## Key Applications

Hyperscale Data Center, Object Storage, Database Processing,

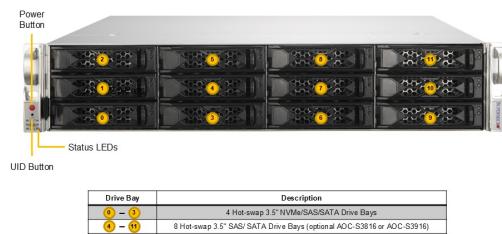
## Key Features

- Single Socket Ampere® Altra® Processor (Up to 80 Cores; Up to 3.3Ghz) / Single Socket Ampere® Altra® Max Processor (Up to 128 Cores; Up to 3.0Ghz) ; Up to 250W TDP;
- 16 DIMMs; Up to 4TB ECC Registered DDR4-3200MHz RDIMM/LRDIMM;
- 3 PCIe 4.0 x16 (LP) Slots, 1 AIOM Slot (OCP3.0 Mezzanine Compatible);
- 2x 25Gb LAN SFP28 Ports via Mellanox ConnectX®-4 Lx EN Controller;
- 12x 3.5" Hot-Swap Drive Bays (4x Hybrid +8x SAS/SATA). Optional up to 4x 2.5" drive bay at the rear;
- 1 VGA, 1 (Serial) Micro USB Port, 2 USB3.0 (2 Rear);

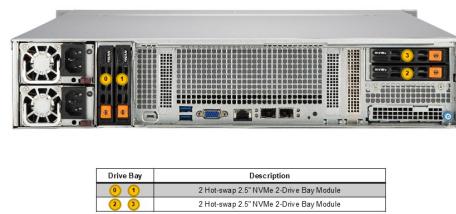


Form Factor	2U Rackmount Enclosure: 437 x 88.9 x 648mm (17.2" x 3.5" x 25.5") Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5")
Processor	Single FCLGA-4926 Ampere® Altra® / Altra® Max processor
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 12 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5"/2.5" NVMe/SAS/SATA drive bays</li> <li>• 8 front hot-swap 3.5"/2.5" SAS/SATA drive bays</li> </ul> M.2: 1 M.2 NVMe slot (M-key 22110)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 3 PCIe 4.0 x16 LP slots</li> <li>• 1 PCIe 4.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul>
On-Board Devices	Chipset: System on Chip Network Connectivity: 2 SFP28 25GbE IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 2 SFP28 25 GbE LAN ports 1 RJ45 1 GBASE-T Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port Serial: 1 port

(Front View – System)



(Rear View – Optional SKU)



**System Cooling** Fans: Up to 3 Heavy Duty 8cm Fan(s)  
Air Shroud: 1 Air Shroud

**Power Supply** 2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

**Management** KVM with dedicated LAN ; IPMI 2.0

**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: 59 lbs (26.76 kg)  
Net Weight: 35.3 lbs (16 kg)  
Available Color: Black

**Operating Environment** RoHS Compliant  
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-operating Relative Humidity: 5% to 95% ()

**Motherboard** [Super R12SPD-A](#)

**Chassis** CSE-LA26TS-R0AMANP