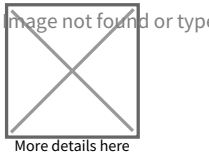


# MegaDC SuperServer ARS-520M-NRL



## 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 10GbE LAN SFP28 Ports via Mellanox ConnectX®-4 Lx EN Controller (or 1x 25GbE LAN SFP28 Port w/Redundancy);
- 12x 2.5" U.2 NVMe Hot-Swap Drive Bays;
- 750W Redundant Power Supplies Platinum Level High-efficiency;
- 1 VGA, 1 (Serial) Micro USB Port, 2 USB3.0 (2 Rear);



<b>Form Factor</b>	2U Rackmount Enclosure: 436.88 x 88.9 x 647.7mm (17.2" x 3.5" x 25.5") Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")
<b>Processor</b>	Ampere® Altra® (Up to 80 Cores and 3.3Ghz) / Altra® Max (Up to 128 Cores and 3.0Ghz) Processor Single Socket 4926-Pin FCLGA supported TDP up to 250W;
<b>System Memory</b>	16 DIMM slots Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz
<b>Drive Bays</b>	12x 3.5" hot-swap NVME drive bays (12x 3.5" NVMe dedicated) 1 M.2 NVMe M-Key, 22110
<b>Expansion Slots</b>	3 PCIe 4.0 x16 LP slot(s) 1 PCIe 4.0 x16 AIOM slot(s)
<b>On-Board Devices</b>	Chipset: System on Chip Network Connectivity: 2x 10GbE SFP28 with Mellanox IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Input / Output</b>	LAN: 1 RJ45 Dedicated IPMI LAN port 2x 10GbE SFP28 Ethernet LAN Ports (or 1x 25GbE) USB: 2 USB 3.0 port(s) (2 Rear_USB) Video: 1 VGA port(s) Serial Port: 1 Serial (Micro USB) Port

System Cooling	3x 8cm heavy duty fan(s)
Power Supply	750W Redundant Power Supplies with PMBus Dimension (W x H x L): 73.5 x 40 x 203 mm Output Type: Gold Finger Connector
System BIOS	BIOS Type: 256MB SPI Flash EEPROM
Management	IPMI 2.0; KVM with dedicated LAN
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Height: 3.5" (88.9 mm) Width: 17.2" (436.88 mm) Depth: 25.5" (647.7 mm) Gross Weight: 59 lbs (26.76 kg) Net Weight: 35.3 lbs (16 kg) Packaging: 11" (H) x 26.5" (W) x 34" (D) Available Color: Black
Operating Environment	ROHS: RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 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	<a href="#">Super R12SPD-A</a>
Chassis	CSE-LA26TS-R751AMAP