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

More details here

Key Applications

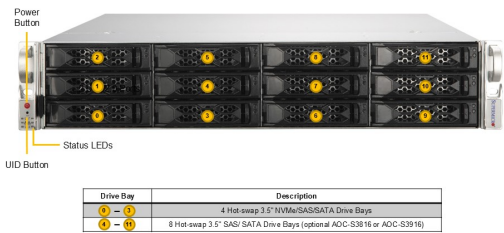Hyperscale Data Center, Object Storage, Database Processing,

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;
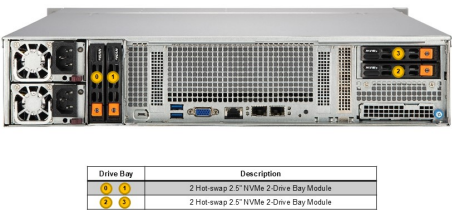- 1 VGA, 1 (Serial) Micro USB Port, 2 USB3.0 (2 Rear);

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 • 4 front hot-swap 3.5"/2.5" NVMe/SAS/SATA drive bays • 8 front hot-swap 3.5"/2.5" SAS/SATA drive bays M.2: 1 M.2 NVMe slot (M-key 22110)
Expansion Slots	Default • 3 PCIe 4.0 x16 LP slots • 1 PCIe 4.0 x16 AIOM slot (OCP 3.0 compatible)
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)

Power
Button

Status LEDs

UID Button

Drive Bay	Description
0 – 3	4 Hot-swap 3.5" NVMe/SAS/SATA Drive Bays
4 – 11	8 Hot-swap 3.5" SAS/ SATA Drive Bays (optional AOC-S3816 or AOC-S3916)

Drive Bay	Description
0 1	2 Hot-swap 2.5" NVMe 2-Drive Bay Module
2 3	2 Hot-swap 2.5" NVMe 2-Drive Bay Module

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 　　　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	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