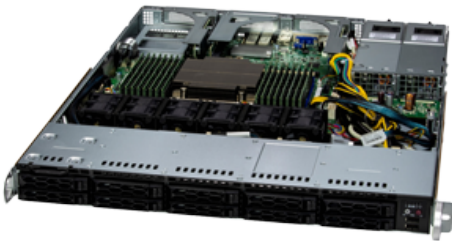# MegaDC SuperServer ARS-110M-NR

1U UP MegaDC with 10 hot-swap 2.5" NVMe drives
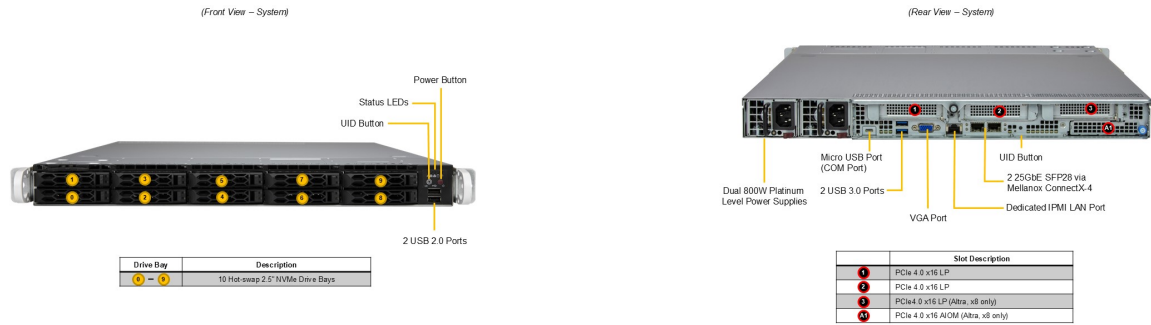
Key Applications

Enterprise Server, Hyperscale Data Center, Front End Server, Infrastructure,

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;
- 10x 2.5" U.2 NVMe Hot-Swap Drive Bays;
- 800W Redundant Platinum Level High-efficiency Power Supplies;
- 1 VGA, 1 (Serial) Micro USB Port, 2 USB3.0 (2 Rear);

Form Factor	1U Rackmount Enclosure: 436.88 x 43.18 x 596.9mm (17.2" x 1.7" x 23.5") Package: 596.9 x 190.5 x 800.1mm (23.5" x 7.5" x 31.5")
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 10 bays • 10 front hot-swap 2.5" NVMe 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)
	    2 USB 2.0 ports(front)
	Video: 1 VGA port
	Serial: 1 port

(Front View – System)

(Rear View – System)

Power Button
Status LEDs
UID Button

2 USB 2.0 Ports

Drive Bay	Description
0 — 9	10 Hot-swap 2.5" NVMe Drive Bays

Micro USB Port (COM Port)
2 USB 3.0 Ports
VGA Port
Dual 800W Platinum Level Power Supplies
UID Button
2 25GbE SFP28 via Mellanox ConnectX-4
Dedicated IPMI LAN Port

Slot Description	
1	PCIe 4.0 x16 LP
2	PCIe 4.0 x16 LP
3	PCIe4.0 x16 LP (Altra, x8 only)
A1	PCIe 4.0 x16 AIOM (Altra, x8 only)

System Cooling

Fans: Up to 6 Heavy Duty 4cm Fan(s)
Air Shroud: 1 Air Shroud

Power Supply

2x 800W Redundant (1 + 1) Platinum Level (94%) power supplies

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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: 46 lbs (20.9 kg)
     Net Weight: 25 lbs (11.3 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-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Motherboard

Super R12SPD-A

Chassis

CSE-LB16TS-R804AMP2