MegaDC SuperServer ARS-210ME-FNR

2U UP MegaDC with double-width GPU support + 6 hot-swap 2.5" NVMe drives
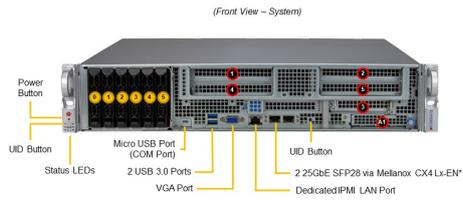
Key Applications

Telco Edge, Cloud Service Providers, Open-RAN, Edge AI,

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;
- Supports 1 PCIe 4.0 x16 Double Wide FPFL GPU Card (or 1 PCIe 4.0 x16 FPFL Single Slot and 1 PCIe 4.0 x8 FPFL Single Slot), 1 PCIe 4.0 x16 FPHL Slot, 1 PCIe 4.0 x8 FPHL Slot, 1 PCIe 4.0 x16 LP Slot, 1 AIOM Slot (OCP3.0 Mezzanine Compatible);
- 2x 25Gb LAN SFP28 Ports via Mellanox ConnectX®-4 Lx EN Controller;
- 6x 2.5" U.2 NVMe Hot-Swap Drive Bays;
- 1000W Redundant Titanium Level High-efficiency Power Supplies;
- 1 VGA, 1 (Serial) Micro USB Port, 2 USB3.0 (2 Rear);

Form Factor	2U Rackmount Enclosure: 436.88 x 88.9 x 431.8mm (17.2" x 3.5" x 17") Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")
Processor	Single FCLGA-4926 Ampere® Altra® / Altra® Max processor
GPU	Max GPU Count: Up to 1 double-width GPU Supported GPU: NVIDIA PCIe: A16
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 6 bays • 6 front hot-swap 2.5" NVMe drive bays M.2: 1 M.2 NVMe slot (M-key 22110)
Expansion Slots	Default • 2 PCIe 4.0 x8 FHFL slots • 1 PCIe 4.0 x16 FHFL slot • 1 PCIe 4.0 x16 LP slot • 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(front) Video: 1 VGA port Serial: 1 port

(Front View – System)

Power
Button

UID Button

Status LEDs

Micro USB Port
(COM Port)

2 USB 3.0 Ports

VGA Port

UID Button

2 25GbE SFP28 via Mellanox CX4 Lx-EN*

Dedicated IPMI LAN Port

(Rear View – System)

4 Hot-Swap Fans

1000W Titanium Level
Power Supplies

Drive Bay	Description
0 — 5	6 Hot-swap 2.5" NVMe Drive Bays (optional SAS/ SATA, AOC-3808 or 3908)

Slot	Description
1	PCIe 4.0 x16
2	PCIe 4.0 x16 (for double-width) GPU
3	PCIe 4.0 x16 LP (Altra, x8 only)
4	PCIe 4.0 x8
5	PCIe 4.0 x8 (cannot be used if DW GPU installed in slot 2)
A1	PCIe 4.0 x16 (Altra, x8 only) AIOM

* Upstream bandwidth up to 32Gb/s total

System Cooling

Fans: Up to 4 Heavy Duty 8cm Fan(s)
Air Shroud: 1 Air Shroud

Power Supply

2x 1000W Redundant (1 + 1) Titanium Level (96%) 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: 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-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Motherboard

[Super R12SPD-A](#)

Chassis

CSE-LB23MTS-R000NDP