MegaDC SuperServer ARS-211ME-FNR

2U UP MegaDC with 6 hot-swap 2.5" NVMe drives
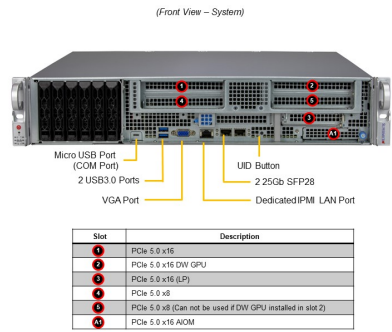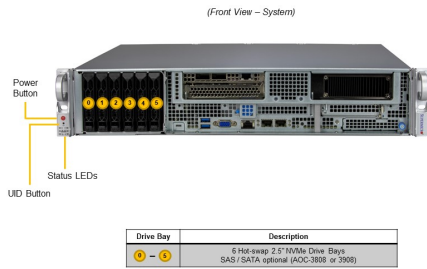
Key Applications

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

Key Features

- Single Socket Ampere® AmpereOne® Processor (Up to 192 Cores; Up to 3.2Ghz) ; Up to 400W TDP;
- 16 DIMMs; Up to 4TB ECC Registered DDR5-5600/ 4800MHz RDIMM/LRDIMM;
- Supports 1 PCIe 5.0 x16 Double Wide FPFL GPU Card (or 1 PCIe 5.0 x16 FPFL Single Slot and 1 PCIe 5.0 x8 FPFL Single Slot), 1 PCIe 5.0 x16 FPHL Slot, 1 PCIe 5.0 x8 FPHL Slot, 1 PCIe 5.0 x16 LP Slot, 1 AIOM Slot (OCP3.0 Mezzanine Compatible);
- 2x 25Gb LAN SFP28 Ports via BCM57414 Controller w/NC-SI;
- 6x 2.5" U.2 NVMe Hot-Swap Drive Bays;
- 1600W 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 processor(s) Ampere® AmpereOne® processor
GPU	Up to 1 double-width GPU
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM/LRDIMM Max Memory (2DPC): Up to 4TB 4400MT/s ECC DDR5 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 5.0 x8 FHFL slots • 2 PCIe 5.0 x16 FHFL slots • 1 PCIe 5.0 x16 LP slot • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
On-Board Devices	Chipset: System on Chip Network Connectivity: 2 SFP28 25GbE with Broadcom®
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

Status LEDs

UID Button

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

(Front View – System)

Micro USB Port
(COM Port)

2 USB3.0 Ports

VGA Port

UID Button

2 25Gb SFP28

Dedicated IPMI LAN Port

Slot	Description
1	PCIe 5.0 x16
2	PCIe 5.0 x16 DW GPU
3	PCIe 5.0 x16 (LP)
4	PCIe 5.0 x8
5	PCIe 5.0 x8 (Can not be used if DW GPU installed in slot 2)
A1	PCIe 5.0 x16 AIOM

System Cooling

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

Power Supply

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

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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-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Motherboard

Super R13SPD

Chassis

CSE-LB23MTS-R000NDP