

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

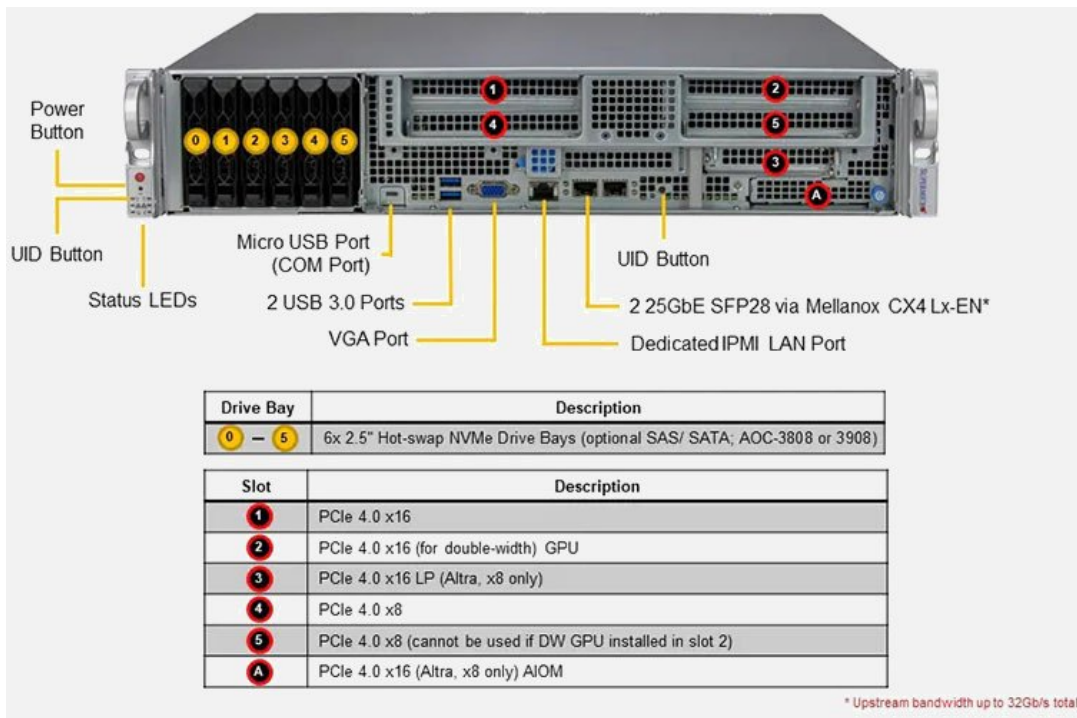
Supermicro MegaDC Server ARS-210ME-FNR

2U · Ampere Altra · 6x 2.5" hot-swap NVMe bays · up to 2 TB RAM

SKU ARS-210ME-FNR

2U

Supermicro



FORM FACTOR

2U

MAX POWER (BASE)

333 W

HEAT OUTPUT

1,136 BTU/h

PRICE

from €5,050



CONFIGURE & QUOTE ONLINE

serverinvest.com/product/ars-210me-fnr



01 Product overview

The Supermicro MegaDC Server ARS-210ME-FNR is a 2U single-socket platform built on Ampere Altra, supporting up to 2 TB of DDR5 memory.

It is designed for open-ran, telco edge, cloud service providers, artificial intelligence (AI) on edge.

Storage is provided by 6x 2.5" hot-swap NVMe drive bays.

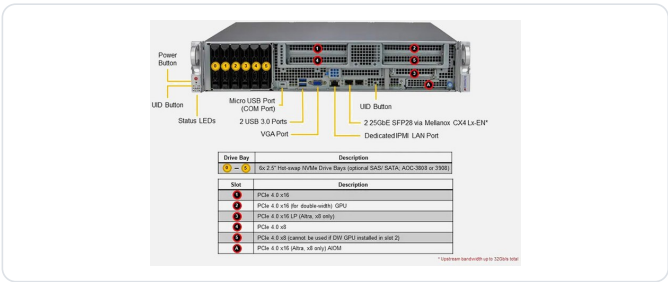
Every ServerInvest build is assembled to order, updated to the latest firmware and burn-in tested before shipping, and comes with a 3-year warranty.

HIGHLIGHTS

- Ampere Altra (on-board)
- Up to 2 TB DDR5 memory in 8 DIMM slots
- 6x 2.5" hot-swap NVMe drive bays
- On-board networking: Dual 10GbE Lan with SFP+
- Dual Redundant 1600W power supplies

KEY SPECIFICATIONS

Form factor	2U
Processor	Ampere Altra
Memory	8 DIMM slots, up to 2 TB
Drive bays	6 (6 NVMe)
Power supply	2× 1600 W
Typical power draw	530 W
Networking	Dual 10GbE Lan with SFP+
Dimensions (W×H×D)	437 × 89 mm



02 Base configuration

Components included in the listed base price — every part can be changed in the online configurator

COMPONENT	DESCRIPTION	QTY
Base system	Supermicro MegaDC Server ARS-210ME-FNR	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from

€5,050
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
86 W	210 W	333 W	1,136 BTU/h	0.3 kW	21%

Typical 210 W · max 333 W · single PSU rating 1600 W

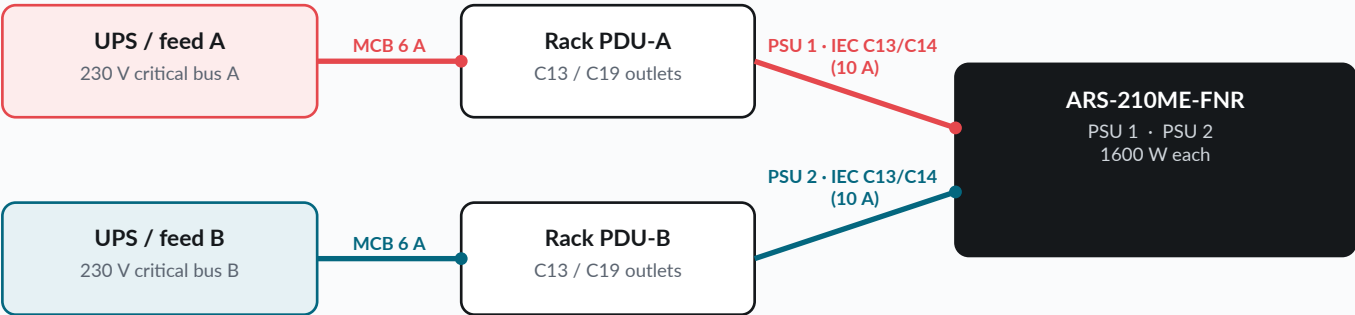
Annual IT energy (24/7)	1,514 kWh
Annual facility energy (PUE 1.5)	2,271 kWh
Annual energy cost	€303 IT · €454 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.59 t (grid factor 0.26 kg/kWh)
Power supplies	2× 1600 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	110 W
2× Memory 16 GB DIMM	6 W	10 W	18 W
CPU (base configuration)	25 W	110 W	185 W

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

04 Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C13/C14 (10 A) power cords.
- Maximum current per feed: 1.5 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 333 W = 1,136 BTU/h (0.3 kW).

05 Full specifications

PROCESSOR & MEMORY	
Processor family	Ampere Altra
Sockets	1
Max memory	2 TB

STORAGE

Drive bays	6x 2.5" hot-swap NVMe drive bays
Drive size	2.5" Drives
Bay type	Hot-Swap Drives

CHASSIS & POWER

Form factor	2U
Power supply	Dual Redundant 1600W

NETWORKING

On-board	Dual 10GbE Lan with SFP+
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OPTIMISED FOR

Workload 1	Open-RAN
Workload 2	Telco Edge
Workload 3	Cloud Service Providers
Workload 4	Artificial Intelligence (AI) on Edge

06 Built, tested & supported by ServerInvest

Engineered configuration

Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in

Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty

Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery

Rails, cable management and labelling included — delivered across Europe.



Ready to order or need changes?

Configure this system online or talk to a solutions engineer — we reply within one business day.

office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/ars-210me-fnr/datasheet/manufacture

