TECHNICAL DATASHEET

SUPERMICRO · EDGE & EMBEDDED

Supermicro SuperServer SYS-E300-12C

1U · Intel Xeon D / Atom (embedded) · up to 64 GB RAM

SKU SYS-E300-12C | 1U | Supermicro

FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
1U	306 W	1,044 BTU/h	from €850

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CONFIGURE & QUOTE ONLINE
serverinvest.com/product/sys-e300-12c

01 Product overview

The Supermicro SuperServer SYS-E300-12C is a 1U single-socket platform built on Intel Xeon D / Atom (embedded), supporting up to 64 GB of DDR5 memory.

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

- Intel Xeon D / Atom (embedded) (on-board)
- Up to 64 GB DDR5 memory in 2 DIMM slots
- On-board networking: Integrated Dual Gigabit LAN

KEY SPECIFICATIONS

Form factor	**1U**
Processor	**Intel Xeon D / Atom (embedded)**
Memory	**2 DIMM slots, up to 64 GB**
Typical power draw	**490 W**
Networking	**Integrated Dual Gigabit LAN**
Dimensions (W×H×D)	**437 × 44 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 SuperServer SYS-E300-12C**	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from **€850** excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
73 W	**190 W**	**306 W**	**1,044 BTU/h**	**0.3 kW**	**—**

Typical 190 W · max 306 W

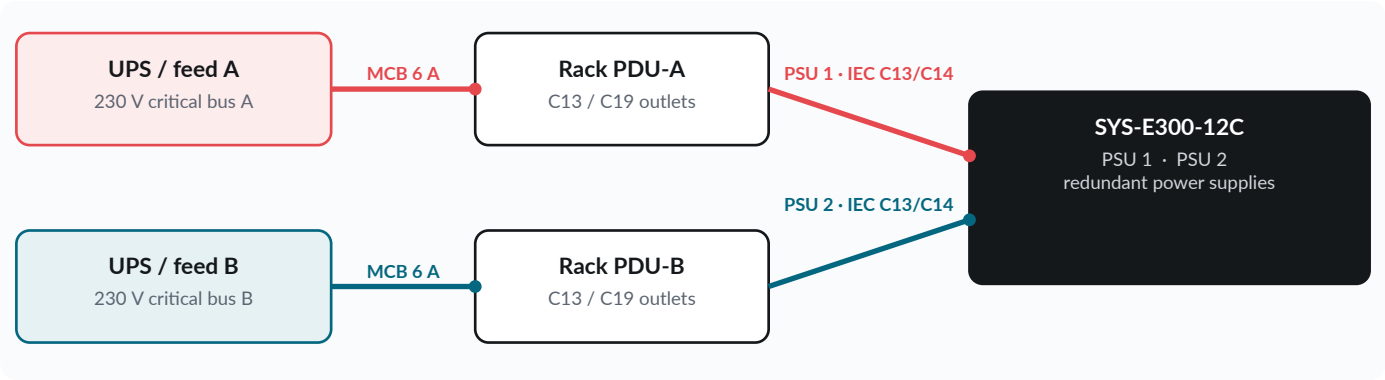
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	**85 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 power cords.
- Maximum current per feed: 1.4 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: 306 W = 1,044 BTU/h (0.3 kW).

05 Full specifications

PROCESSOR & MEMORY	
Processor family	Intel Xeon D / Atom (embedded)
Sockets	1
Max memory	64 GB

STORAGE	
Drive size	2.5" Drives
Bay type	Fixed Drives

CHASSIS & POWER	
Form factor	1U

NETWORKING	
On-board	Integrated Dual Gigabit LAN

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.

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Ready to order or need changes?
Configure this system online or talk to a solutions engineer — we reply within one business day.
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