

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-E302-9A

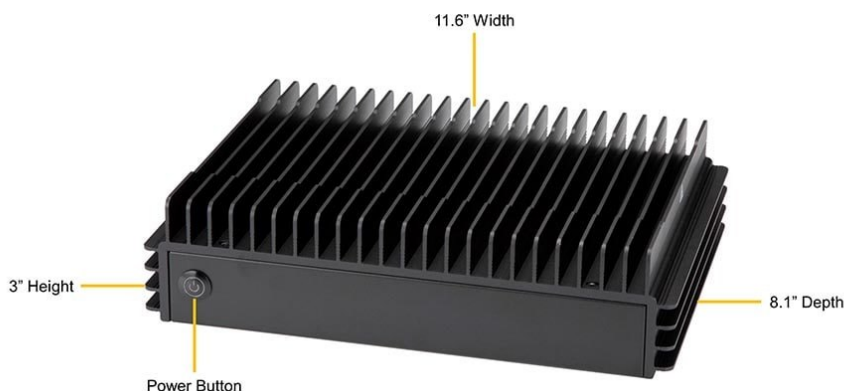
SKU SYS-E302-9A

Compact

Supermicro

SuperServer SYS-E302-9A

(Angled View – System)



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FORM FACTOR

Compact

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request



REQUEST A QUOTATION ONLINE

serverinvest.com/product/sys-e302-9a



01 **Product overview**

The Supermicro SYS-E302-9A is a server built on Intel Atom with up to 256 GB of memory.

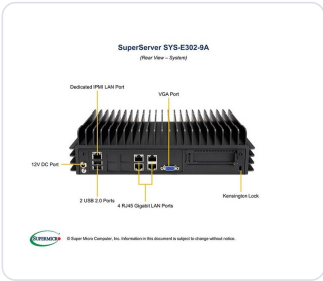
ServerInvest configures every SYS-E302-9A to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Atom
- Up to 256 GB memory
- 2x 2.5" 7mm fixed drive bay
- Networking: Quad Gigabit Ethernet LAN via Intel C3000 SoC

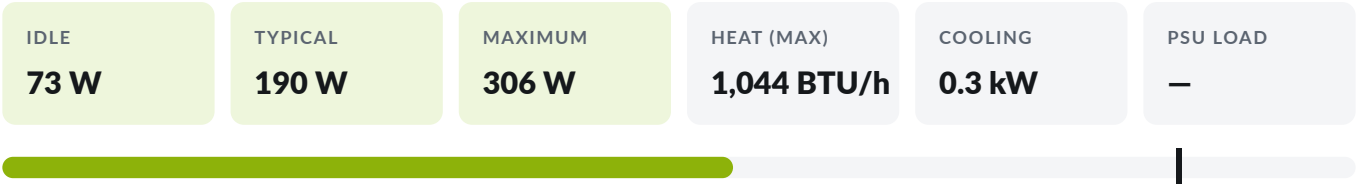
KEY SPECIFICATIONS

Form factor	Compact
Processor	Intel Atom
Memory	up to 256 GB
Drive bays	2
Typical power draw	450 W
Networking	Quad Gigabit Ethernet LAN via Intel C3000 SoC



02 **Power & thermal**

Calculated for the base configuration



Typical 190 W · max 306 W

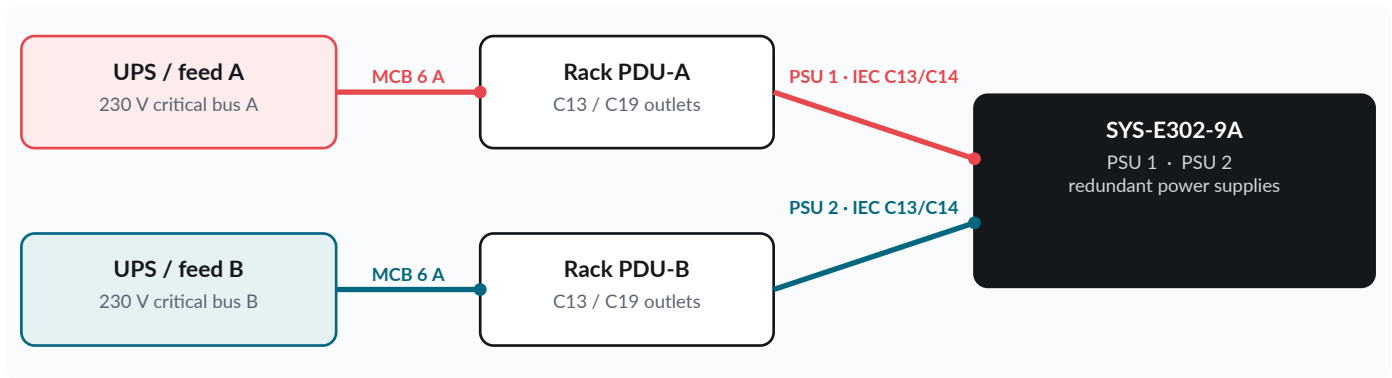
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU (base configuration)	25 W	110 W	185 W
2× Memory (base configuration)	6 W	10 W	18 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.

03 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).

04 Full specifications

PROCESSOR/CACHE

CPU	Intel Atom processor C3558 4 Cores, 2.2GHz CPU TDP support 16W FCBGA 1310
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SYSTEM MEMORY

Memory Capacity	4x DDR4 DIMM sockets Supports up to 256GB DDR4 ECC RDIMM Supports up to 64GB DDR4 ECC/non-ECC UDIMM
Memory Type	2133/1866MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
DIMM Sizes	64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

ON-BOARD DEVICES

Chipset	System on Chip
SATA	SoC controller for SATA3 (6Gbps) ports
Network Controllers	Quad Gigabit Ethernet LAN via Intel C3000 SoC
Graphics	Aspeed AST2400 BMC

INPUT / OUTPUT

SATA	2 SATA3 (6Gbps) ports
LAN	4 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port

USB	2 USB 2.0 ports (rear)
Display	1 VGA port
TPM	TPM header

CHASSIS

Form Factor	Compact
Model	CSE-E302IL

DIMENSIONS

Width	11.6" (295mm)
Height	3" (76mm)
Depth	8.1" (206mm)
Weight	Gross Weight: 7.5 lbs (3.4 kg) Net Weight: 3.45 lbs (1.56 kg)
Available Colors	Black

FRONT PANEL

Buttons	Power On/Off button
LEDs	Power LED (Hard drive activity LED)

EXPANSION SLOTS

PCI-Express	1x M.2 M Key 2242/2280 (PCI-E 3.0 x2)
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DRIVE BAYS / STORAGE

Internal	2x 2.5" 7mm fixed drive bay
M.2	Interface: PCI-E 3.0 x2 & SATA Form Factor: 2242, 2280 Key: M-Key

SYSTEM COOLING

Fanless

SYSTEM BIOS

BIOS Type	AMI UEFI
BIOS Features	UEFI 2.4 SMBIOS 2.7.1

MANAGEMENT

Software	OOB IPMI 2.0 KVM with dedicated LAN NMI SuperDoctor 5 Watch Dog
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Power Configurations	ACPI / APM Power Management CPU thermal trip support for processor protection Power-on mode for AC power recovery
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OPERATING ENVIRONMENT / COMPLIANCE

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 0°C to 40°C (32°F to 104°F) with 0.7 m/s air flow with wide temperature M.2 or SSD (0°C to 85°C) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

05 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.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

