

TECHNICAL DATASHEET

SUPERMICRO • EDGE & EMBEDDED

Supermicro IoT SuperServer SYS-E100-13AD-C

Fanless Box PC with Intel Celeron 7305E supporting 2x 2.5GbE LAN ports and 2 HDMI ports

SKU SYS-E100-13AD-C

1U

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

from €610**CONFIGURE & QUOTE ONLINE**serverinvest.com/product/sys-e100-13ad-c

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

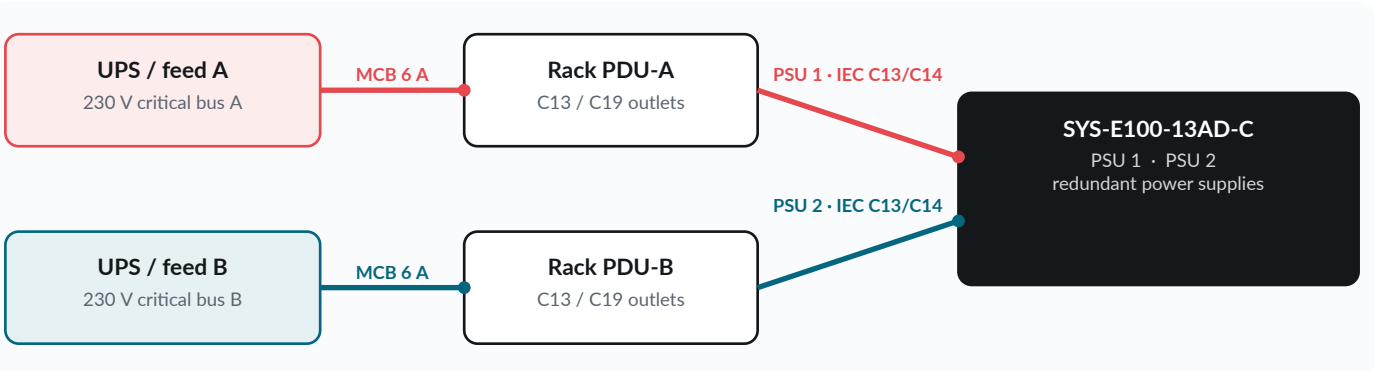
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

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

MOTHERBOARD	
	Super X13SAN-C-WOHS
PROCESSOR	
CPU	Single FCBGA-1744 Intel Celeron Processor 7305E
Core Count	Up to 5C/10T; Up to 8MB Cache

Note Supports up to 15W TDP CPUs (Air Cooled)

SYSTEM MEMORY

Memory	Slot Count: 2 DIMM slots/2 Channels Max Memory (2DPC): Up to 64GB 4800MT/s non-ECC DDR5 SO-DIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

Network Connectivity	2 RJ45 2.5GbE with Intel I225-IT View AOC Options
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INPUT / OUTPUT

LAN	2 RJ45 2.5 GbE LAN ports (Intel I225-IT)
USB	2 USB 3.2 Gen1 Type-C ports (front) 2 USB 3.2 Gen1 Type-A ports (front) 4 USB 2.0 Type-A ports (Rear)
Video	1 HDMI 2.0b port(s) (Front) 1 HDMI 1.4b port(s) (Front) 1 Mini-DP 1.4 port (Front)
Serial	4 COM ports (Rear)
TPM	1 TPM Onboard/port 80

SYSTEM BIOS

BIOS Type	AMiUEFI
BIOS Features	ACPI 6.4 SMBIOS 3.5 or later UEFI 2.8 PCI F/W 3.0

MANAGEMENT

Software	Supermicro SuperDoctor 5 (SD5)
Power configurations	ACPI Power Management CPU thermal trip support for processor protection Control of power-on for recovery from AC power loss DC 12V~24V Wide power range input Force power-on by jumper

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0
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CERTIFICATIONS

Operating Systems	RHEL 9.0, Windows 10 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	Fanless Embedded
Model	CSE-E101-04

DIMENSIONS AND WEIGHT

Height	1.73" (44 mm)
Width	7.68" (195 mm)
Depth	5.94" (150 mm)
Package	5.12" (H) x 11.81" (W) x 11" (D)
Weight	Gross Weight: 4.3 lbs (1.95 kg) Net Weight: 2.16 lbs (0.98 kg)
Palletized Packing (W x H x L)	54.3" (1380 mm) x 78.5" (1993 mm) x 35" (890 mm)
Available Color	Black

FRONT PANEL

Buttons	Power On/Off Power On/Off
LED	HDD Status HDD Status LAN1 activity LAN1 activity LAN2 activity LAN2 activity Power status Power status

EXPANSION SLOTS

M.2	1 M.2 SATA slot (B-key 2242/2280; USB 3.0) 1 M.2 slot (E-key 2230; USB 2.0)
PCI-Express (PCIe) Configuration	View AOC Options

DRIVE BAYS / STORAGE

M.2	1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2242/2280) 1 M.2 SATA slot (B-key 2242/2280; USB 3.0) View M.2 Options
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SYSTEM COOLING

Fans	N/A
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POWER SUPPLY

1x 84W
1x 84W power supply
Dimension (WxHxL)
160 x 32.2 x 58 mm

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 0°C to 50°C (32°F to 122°F) 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)

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/sys-e100-13ad-c/datasheet/manufacture

