TECHNICAL DATASHEET

SUPERMICRO · EDGE & EMBEDDED

# Supermicro IoT SuperServer SYS-E100-12T-C

1U · Intel Xeon D / Atom (embedded)

SKU SYS-E100-12T-C | 1U | Supermicro

| FORM FACTOR | MAX POWER (BASE) | HEAT OUTPUT | PRICE |
|---|---|---|---|
| 1U | 306 W | 1,044 BTU/h | from €790 |

ISO 9001 · ISO 14001 · ISO 27001

CONFIGURE & QUOTE ONLINE
serverinvest.com/product/sys-e100-12t-c

## 01 Product overview

The Supermicro IoT SuperServer SYS-E100-12T-C is a 1U single-socket platform built on Intel Xeon D / Atom (embedded).

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)
- On-board networking: Dual 2.5GbE BaseT with Intel I225-IT

### KEY SPECIFICATIONS

| | |
|---|---|
| Form factor | **1U** |
| Processor | **Intel Xeon D / Atom (embedded)** |
| Memory | **8 DIMM slots** |
| Typical power draw | **490 W** |
| Networking | **Dual 2.5GbE BaseT with Intel I225-IT** |
| 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 IoT SuperServer SYS-E100-12T-C** | 1 |
| Memory | 16GB 5600MT/s DDR5 ECC Registered DIMM Module | 2 |
| Warranty & support | 3-year return-to-base warranty (included) | 1 |

**Base configuration from** **€790** 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

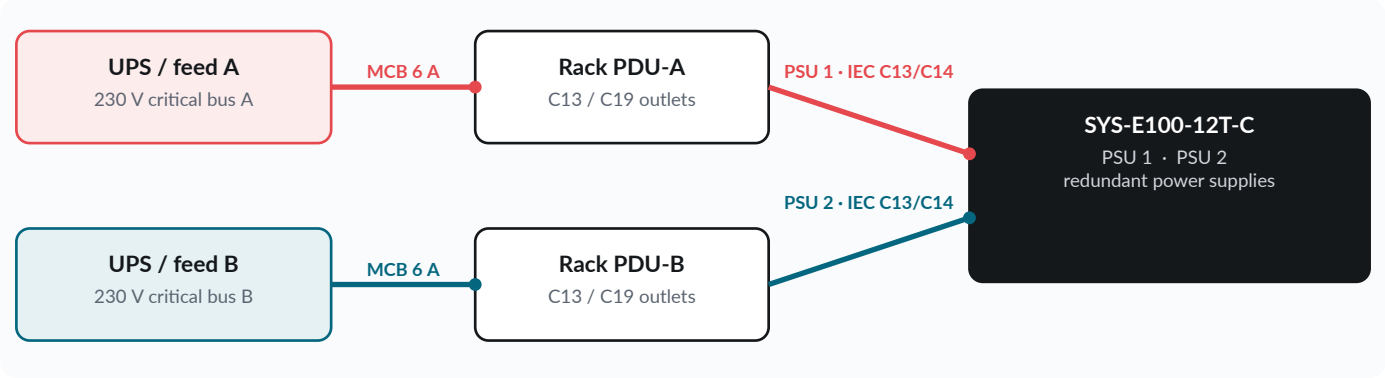
| | |
|---|---|
| Annual IT energy (24/7) | 1,357 kWh |
| Annual facility energy (PUE 1.5) | 2,036 kWh |
| Annual energy cost | €271 IT · €407 incl. cooling (at 0.20 €/kWh) |
| $CO_2$ emissions / year | 0.53 t (grid factor 0.26 kg/kWh) |
| Power supplies | Redundant hot-swap PSUs — rating depends on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

| STORAGE | |
|---|---|
| Bay type | Fixed Drives |

| CHASSIS & POWER | |
|---|---|
| Form factor | 1U |

| NETWORKING | |
|---|---|
| On-board | Dual 2.5GbE BaseT with Intel I225-IT |

## 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.

NATCERT ISO 9001 · NATCERT ISO 14001 · NATCERT ISO 27001 · cisco · tp-link · Omada by tp-link

## 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