

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro 1U CloudDC Server SYS-112C-TN

1U UP CloudDC with DC-MHS, up to 12 hot-swap 2.5" NVMe/SAS/SATA bays and
2 PCIe 5.0 x16 slots + 1 PCIe 5.0 x16 AIOM slot

SKU SYS-112C-TN

1U

LGA4710

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

269 W

HEAT OUTPUT

918 BTU/h

PRICE

from €6,210**CONFIGURE & QUOTE ONLINE**serverinvest.com/product/sys-112c-tn

01 Product overview

The Supermicro SYS-112C-TN is a 1U CloudDC Server built on Intel Xeon 6 with up to 4 TB of memory in 16 DIMM slots.

1U UP CloudDC with DC-MHS, up to 12 hot-swap 2.5" NVMe/SAS/SATA bays and 2 PCIe 5.0 x16 slots + 1 PCIe 5.0 x16 AIOM slot.

The chassis accepts up to 2 GPU accelerators for AI, rendering and HPC workloads.

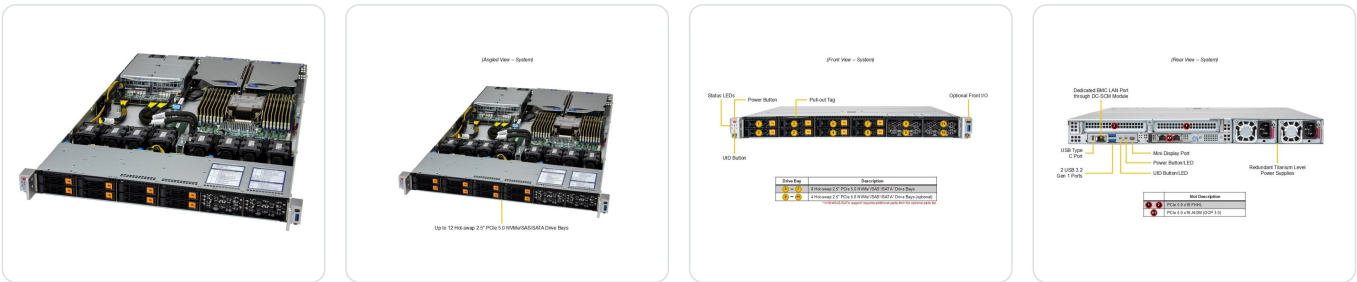
ServerInvest configures every SYS-112C-TN to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Xeon 6
- Up to 4 TB memory · 16 DIMM slots
- Total 8 bays 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays
- Up to 2 GPUs
- Power: 2x 1000W
- Networking: Via AIOM

KEY SPECIFICATIONS

Form factor	1U
Processor	Intel Xeon 6
Socket	LGA4710
Memory	16 DIMM slots, up to 4 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	36 (36 NVMe)
GPU	Up to 2 GPUs
Power supply	2× 1000 W
Typical power draw	1350 W
Networking	Via AIOM
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 1U CloudDC Server SYS-112C-TN	1
Processor	Intel Xeon 6505P Processor 12 Cores (48M Cache, 2.20Ghz) 150W	1
Memory	16GB 6400MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

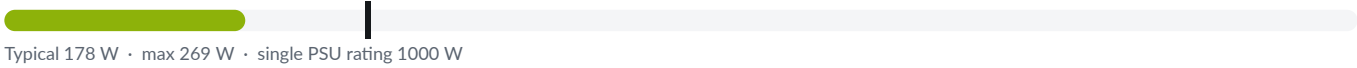
Base configuration from

€6,210
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
71 W	178 W	269 W	918 BTU/h	0.3 kW	27%



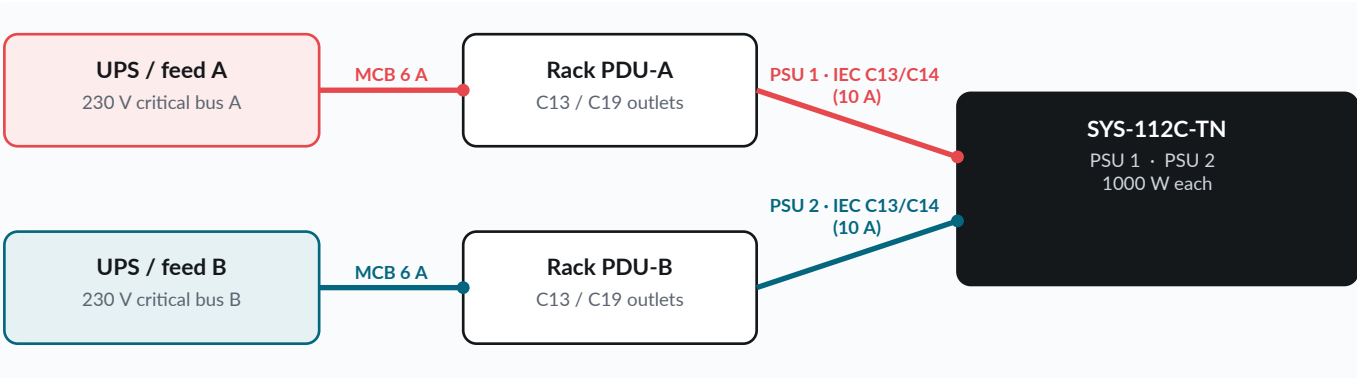
Annual IT energy (24/7)	1,278 kWh
Annual facility energy (PUE 1.5)	1,917 kWh
Annual energy cost	€256 IT · €383 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.50 t (grid factor 0.26 kg/kWh)
Power supplies	2× 1000 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU — Intel Xeon 6505P Processor 12 Cores	23 W	98 W	150 W
2× Memory 16 GB DIMM	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.

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: 1.2 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: 269 W = 918 BTU/h (0.3 kW).

05 Full specifications

MOTHERBOARD

Super X14SBHM

PROCESSOR

CPU Single Socket E2 (LGA-4710)
Intel Xeon 6700/6500 series processors with P-cores or 6700 series processors with E-cores

Core Count	P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
Note	Supports up to 350W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 single-width GPUs
Supported GPU	NVIDIA PCIe: L4 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect

SYSTEM MEMORY

Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 512GB 8000MT/s ECC DDR5 MRDIMM (P-core only) Max Memory (2DPC): Up to 4TB 6000MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

NVMe	NVMe; RAID 0/1/5/10 support(Intel VROC RAID key required) View NVMe Options
Network Connectivity	Via AIOM View AIOM Options View AOC Options

INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port (via DC-SCM)
USB	2 USB 3.2 Gen1 Type-A ports (Rear) (via DC-SCM)
Video	1 Mini-DP port (Rear) (via DC-SCM)
TPM	1 TPM header

SYSTEM BIOS

BIOS Type	AMI 64MB UEFI
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MANAGEMENT

Software	SuperCloud Composer (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Power configurations	ACPI/APM Power Management

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
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Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown
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PC HEALTH MONITORING

CPU	Monitors for CPU Cores, Chipset Voltages, Memory
Fan	Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors

CERTIFICATIONS

Operating Systems	ESXi 8.0U3, ESXi 9.0, Oracle Linux 9.4, RHEL 9.4, RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	1U Rackmount
Model	CSE-MD101TS-R000NDP

DIMENSIONS AND WEIGHT

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	29.4" (747 mm)
Package	8.1" (H) x 23.8" (W) x 40.6" (D)
Weight	Gross Weight: 47 lbs (21.3 kg) Net Weight: 31 lbs (14.1 kg)
Available Color	Black

FRONT PANEL

Buttons	Power On/Off button UID button
LED	HDD activity LAN1 activity LAN2 activity Power Failed LED Power status System information

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration

Default: Total 8 bays 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays
Option A: Total 12 bays 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays
4 front hot-swap 2.5" SAS*/SATA* drive bays
Option B: Total 12 bays 12 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays
(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)
[View NVMe Options](#)

M.2

2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280(default)/22110; optional configuration)
[View M.2 Options](#)

SYSTEM COOLING

Fans

Up to 6 Counter-Rotating PWM 40x40x56mm Fan(s)
Up to 2 Counter-Rotating PWM 40x40x56mm Fan(s) (optional)

Air Shroud

1 CPU Air Shroud
1 M.2 Side Air Shroud

POWER SUPPLY

2x 1000W
2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)
73.5 x 40 x 185 mm

OPERATING ENVIRONMENT

Environmental Spec.

Operating Temperature: 10°C to 35°C (50°F to 95°F)
Non-operating Temperature: -30°C to 60°C (-22°F to 140°F)
Operating Relative Humidity: 8% to 80% (non-condensing)
Non-operating Relative Humidity: 8% to 90% (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-112c-tn/datasheet/manufacture

