

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro 1U CloudDC Server SYS-122C-TN

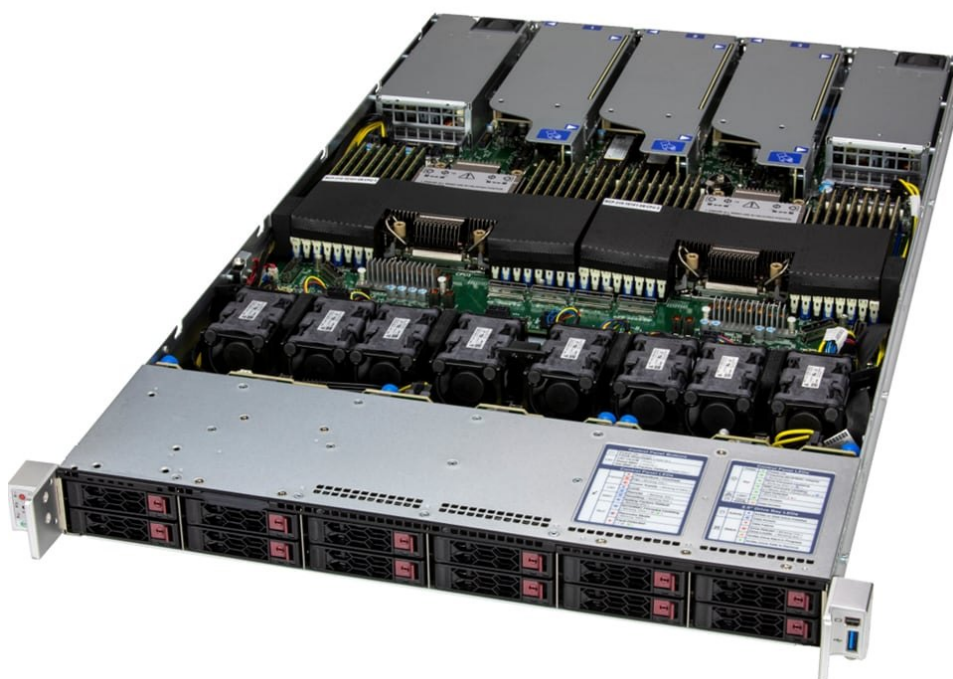
1U CloudDC with DC-MHS, 12 hot-swap 2.5" NVMe/SATA/SAS bays, 3 PCIe 5.0 x16/x8 slots and 2 PCIe 5.0 x16 AIOM slots

SKU SYS-122C-TN

1U

LGA4710

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

565 W

HEAT OUTPUT

1,928 BTU/h

PRICE

from €8,010**CONFIGURE & QUOTE ONLINE**serverinvest.com/product/sys-122c-tn

01 Product overview

The Supermicro SYS-122C-TN is a 1U CloudDC Server built on dual Intel Xeon 6 processors with up to 8 TB of memory in 32 DIMM slots.

1U CloudDC with DC-MHS, 12 hot-swap 2.5" NVMe/SATA/SAS bays, 3 PCIe 5.0 x16/x8 slots and 2 PCIe 5.0 x16 AIOM slots.

The chassis accepts up to 3 GPU accelerators for AI, rendering and HPC workloads.

ServerInvest configures every SYS-122C-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

- Dual Intel Xeon 6
- Up to 8 TB memory · 32 DIMM slots
- Total 12 bays 12 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays
- Up to 3 GPUs
- Power: 2x 1000W
- Networking: Via AIOM

KEY SPECIFICATIONS

Form factor	1U
Processor	2× Intel Xeon 6
Socket	LGA4710
Memory	32 DIMM slots, up to 8 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	12 (12 NVMe)
GPU	Up to 3 GPUs
Power supply	2× 1000 W
Typical power draw	2100 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-122C-TN	1
Processor	Intel Xeon 6710E Processor 64 Cores (96M Cache, 2.40Ghz) 205W	2
Memory	16GB 6400MT/s DDR5 ECC Registered DIMM Module	4
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from

€8,010
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
119 W	367 W	565 W	1,928 BTU/h	0.6 kW	56%

Typical 367 W · max 565 W · single PSU rating 1000 W

Annual IT energy (24/7)	2,563 kWh
Annual facility energy (PUE 1.5)	3,845 kWh
Annual energy cost	€513 IT · €769 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	1.00 t (grid factor 0.26 kg/kWh)
Power supplies	2× 1000 W redundant (N+1)

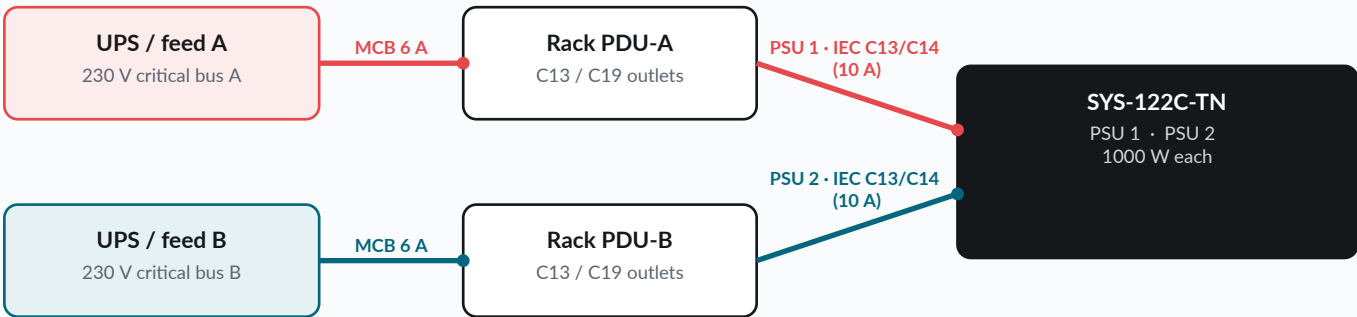
POWER BY COMPONENT

	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
2× CPU — Intel Xeon 6710E Processor 64 Cores	62 W	266 W	410 W
4× Memory 16 GB DIMM	12 W	20 W	36 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: 2.6 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: 565 W = 1,928 BTU/h (0.6 kW).

05 Full specifications

MOTHERBOARD

Super X14DBHM

PROCESSOR

CPU

Dual 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 per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
Note	Supports up to 350W TDP CPUs (Air Cooled)* *Air Cooled CPUs with TDP over 250W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 3 single-width GPUs
Supported GPU	NVIDIA PCIe: A1000, L4 View GPU Options

SYSTEM MEMORY

Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 1TB 8000MT/s ECC DDR5 MRDIMM Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

NVMe	NVMe; RAID 0/1/5/10 support(VROC HW 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
USB	1 USB 2.0 Type-A port (Rear) 1 USB 3.2 Gen1 Type-A port (Rear)
Video	1 VGA port (Rear)
TPM	1 TPM header

SYSTEM BIOS

BIOS Type	AMI 64MB SPI Flash ROM
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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 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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CERTIFICATIONS

Operating Systems	ESXi 8.0 U3, 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-DC101TS-R000NP

DIMENSIONS AND WEIGHT

Height	1.7" (43.6 mm)
Width	17.2" (438.4 mm)
Depth	29.7" (755.1 mm)
Package	7.28" (H) x 22.83" (W) x 42.5" (D)
Weight	Gross Weight: 41 lbs (18.6 kg) Net Weight: 31 lbs (14.1 kg)
Palletized Packing (W x H x L)	49.6" (1260 mm) x 4.7" (120 mm) x 44.5" (1130 mm)
Available Color	Silver

FRONT PANEL

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

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 2 PCIe 5.0 x16 LP slots 1 PCIe 5.0 x8 LP slot 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 12 bays 12 front hot-swap 2.5" 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
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M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default)/2280; VROC required for RAID) View M.2 Options
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SYSTEM COOLING

Fans	Up to 8x 4cm heavy duty fans with optimal fan speed control
Air Shroud	2 Air Shrouds

POWER SUPPLY

2x 1000W
 2x 1200W
 2x 1600W
 2x 1000W
 2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
 Dimension (WxHxL)
 73.5 x 40 x 185 mm

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-30°F to 140°F) Operating Relative Humidity: 8% to 80% (Non-Condensing) Non-operating Relative Humidity: 8% to 90% (Non-Condensing)

ENVIRONMENTAL / RECYCLING

Recycle	Return Server-End of Life Product
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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-122c-tn/datasheet/manufacture

