Intel Xeon (X14) | 1U Rackmount | Server

Supermicro SYS-122H-TN

Intel Xeon (X14) · 1U Rackmount · Liquid Cooling Server

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Form Factor	CPU
1U Rackmount	**Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores**
GPU	**Memory**
Up to 1 double-width or 3 single-width GPUs	**Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
- 32 DIMM slots supporting up to 8TB of memory
- 3 PCIe 5.0 x16 slots with support for Network/Storage/GPU/Accelerator cards
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible)
- 8x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional 4x 2.5" hot-swap NVMe/SAS/SATA drive bays; 2x internal M.2 NVMe drive slots; Optional RAID support via storage add-on card

Form Factor	1U Rackmount
Platform	Intel Xeon (X14)
CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Max GPU Count	Up to 1 double-width or 3 single-width GPUs
Supported GPU	NVIDIA PCIe: A1000, L4, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, RTX 2000 Ada, RTX 4000 Ada Generation
Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays
Fans	Up to 8 counter-rotating 40x40x56mm Fan(s)
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Full Specifications — SYS-122H-TN

Product SKUs

Part numbers	SYS-122H-TN

Motherboard

Motherboard	Super X14DBM-SP

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)* Supports up to 350W TDP CPUs (Liquid 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 1 double-width or 3 single-width GPUs
Supported GPU	NVIDIA PCIe: A1000, L4, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, RTX 2000 Ada, RTX 4000 Ada Generation 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 (P-core only) 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(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

USB	2 USB 3.2 Gen1 ports (Rear) 1 USB 3.2 Gen1 port (Front)
Video	1 VGA port

System BIOS

BIOS Type	AMI 64MB SPI Flash

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	Power-on mode for AC power recovery ACPI Power Management

Security

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

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 8.0 U3, ESXi 9.0, Oracle Linux 9.4, RHEL 9.4, RHEL 10.0, SAP HANA 2.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	SAP HANA

Chassis

Form Factor	1U Rackmount
Model	CSE-HS119-R000NP2

Dimensions and Weight

Height	1.71" (43.6 mm)
Width	17.3" (438.4 mm)
Depth	29.27" (743.38 mm)
Package	7.99" (H) x 23.81" (W) x 37.4" (D)
Weight	Gross Weight: 41 lbs (18.6 kg) Net Weight: 18.7 lbs (8.5 kg)
Available Color	Silver

Front Panel

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

Expansion Slots

PCI-Express (PCIe) Configuration	Default1 PCIe 5.0 x16 FHHL slot 2 PCIe 5.0 x16 FH/10.5"L slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 FHHL slot 2 PCIe 5.0 x16 FH/10.5"L slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays12 front hot-swap 2.5" NVMe*/SAS*/SATA* drive 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
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110) View M.2 Options

System Cooling

Fans	Up to 8 counter-rotating 40x40x56mm Fan(s)
Air Shroud	2 Air Shrouds
Liquid Cooling	Direct to Chip (D2C) Cold Plate (optional)

Power Supply

2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	800W: 100-127Vac / 50-60Hz 1200W: 200-240Vac / 50-60Hz 1200W: 230-240Vdc / 50-60Hz (for CCC only)
+12V	Max: 66.7A / Min: 0A (100Vac-127Vac) Max: 100A / Min: 0A (200Vac-240Vac) Max: 100A / Min: 0A (230Vdc-240Vdc) (for CCC only)
12V SB	Max: 2.1A / Min: 0A
Output Type	Backplanes (gold finger)

2x 2000W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-120Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 200-240Vac / 50-60Hz (for UL/cUL only)
+12V	Max: 83.3A / Min: 0A (100Vac-120Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166.7A / Min: 0A (200Vac-240Vac) (for UL/cUL only) Max: 166.7A / Min: 0A (230Vac-240Vac)
12V SB	Max: 2.1A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

2x 1600W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1600W: 200-240Vac / 50-60Hz 1600W: 200-240Vdc / 50-60Hz (for CQC only)

+12V	Max: 83.3A / Min: 0A (100Vac-127Vac) Max: 133.3A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

2x 2600W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2600W: 200-240Vac / 50-60Hz 2600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 216A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

Operating Environment

Environmental Spec.	Name: A2 Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)

Environmental / Recycling

Recycle	Return Server-End of Life Product