Intel Xeon (X14) | 1U Rackmount | Server

Supermicro SYS-112C-TN

Intel Xeon (X14) · 1U Rackmount 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 2 single-width GPUs	**Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- All-in-one platform for cloud data centers, based on the OCP Data Center Modular Hardware System (DC-MHS) with flexible I/O and storage configurationsBased on Modular Scalable DeNsity Optimized HPM Form Factor (M-SDNO)Support DC-SCM module with OpenBMC
- Single Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
- 16 DIMM slots supporting DDR5 RDIMM(2DPC/1DPC) or MRDIMM(1DPC)
- Support FH DPU and single slot GPU
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible).
- Breeze through high throughput workloads with PCIe 5.0 NVMe drive support
- Trusted Platform Module (TPM) 2.0 9672 onboard

Form Factor	1U Rackmount
Platform	Intel Xeon (X14)
CPU	Single 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 2 single-width GPUs
Supported GPU	NVIDIA PCIe: L4
Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays

Fans	Up to 6 Counter-Rotating PWM 40x40x56mm Fan(s)
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-112C-TN

Product SKUs

Part numbers	SYS-112C-TN

Motherboard

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

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
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 8.0U3, 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

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	Default2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x16 FHHL 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" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays 4 front hot-swap 2.5" SAS*/SATA* drive 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 bays12 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive 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 Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	800W: 100-127Vac / 50-60Hz 1000W: 200-240Vac / 50-60Hz
+12V	Max: 66.7A (100Vac-127Vac) Max: 83A (200Vac-240Vac)
12V SB	Max: 2.1A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

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)