Intel Xeon (X14) | 1U Rackmount | Server

Supermicro SYS-122HA-TN-LCC

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

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Form Factor
1U Rackmount

CPU
Intel® Xeon® 6900 Series processors with P-cores and Intel Xeon 6+ processors

Memory
Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM (P-core only)

Key Features

- Dual Intel® Xeon® 6900-Series Processors with P-cores and Xeon 6+ processors up to 500W with D2C liquid cooling
- Up to 24 DIMMs supporting up to 6TB 6400MT/s DDR5 RDIMM or 6TB 8800MT/s DDR5 MRDIMM with P-cores, Or up to 3TB 8000MT/s ECC DDR5 RDIMM with E-cores
- 12 2.5" hot-swap NVMe drive bays
- 2 PCIe 5.0 x16 slots (full-height, 10.5" length)
- 1 AIOM/OCP 3.0 NIC slot for flexible networking options
- Redundant titanium level power supplies with options from 1600W to 2600W
- 1U Rackmount chassis with 30.66" (778.7mm) depth

Form Factor	1U Rackmount
Platform	Intel Xeon (X14)
CPU	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 Series processors with P-cores and Intel Xeon 6+ processors
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM (P-core only)
Drive Bays	Default: Total 12 bays12 front hot-swap 2.5" NVMe drive bays
Fans	Up to 8 counter-rotating 40x40x56mm Fan(s)
Power Supply	2x 1600W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Full Specifications — SYS-122HA-TN-LCC

Product SKUs

Part numbers	SYS-122HA-TN-LCC

Motherboard

Motherboard	Super X14DBM-APL

Processor

CPU	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 Series processors with P-cores and Intel Xeon 6+ processors
Core Count	P-cores: Up to 128C/256T; Up to 504MB Cache per CPU E-cores: Up to 288C/288T; Up to 576MB Cache per CPU
Note	Supports up to 500W TDP CPUs (Liquid Cooled)

System Memory

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM (P-core only) Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (P-core) Max Memory (1DPC): Up to 3TB 8000MT/s ECC DDR5 RDIMM (E-core) 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	Oracle Linux 9.6, RHEL 10.0, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	1U Rackmount
Model	CSE-HS101-R000NFP

Dimensions and Weight

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	30.66" (778.7 mm)

Package	8.82" (H) x 26.46" (W) x 43.31" (D)
Weight	Gross Weight: 41.4 lbs (18.8 kg) Net Weight: 19.2 lbs (8.7 kg)
Available Color	Silver

Front Panel

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

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 FH/10.5"L slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 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 12 bays12 front hot-swap 2.5" NVMe drive bays 12 front hot-swap 2.5" NVMe drive bays 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)
Liquid Cooling	Direct to Chip (D2C) Cold Plate

Power Supply

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)

2x 2000W 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 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac)
12V SB	Max: 3.5A / Min: 0A
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)