Intel Xeon (X14) | 2U Rackmount | Server

# Supermicro SYS-222H-TN

## Intel Xeon (X14) · 2U Rackmount · Liquid Cooling Server

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| | |
|---|---|
| Form Factor<br>**2U Rackmount** | CPU<br>**Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores** |
| GPU<br>**Up to 4 double-width or 8 single-width GPUs** | Memory<br>**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
- Optional PCIe slot configurations up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 slots with support for double-width GPU/Accelerator cards
- Flexible networking options with up to 2 AIOM networking slots (OCP NIC 3.0 compatible)
- 8x 2.5" hot-swap NVMe/SATA/SAS drive bays with optional configurations for 16x/24x 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** | 2U Rackmount |
| **Platform** | Intel Xeon (X14) |
| **CPU** | Dual Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores |
| **Max GPU Count** | Up to 4 double-width or 8 single-width GPUs |
| **Supported GPU** | NVIDIA PCIe: H100 NVL, A1000, A16, L4, L40S, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition, RTX 2000 Ada, RTX 4000 Ada Generation, RTX 5000 Ada, RTX 6000 Ada Generation |
| **Memory** | Slot Count: 32 DIMM slots<br>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 4x 8cm heavy duty fans with optimal fan speed control |
| **Power Supply** | 2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies |

# Full Specifications — SYS-222H-TN

## Product SKUs

| | |
|---|---|
| **Part numbers** | SYS-222H-TN<br>SYS-222H-TN-01-G3 Gold Series version with pre-configured components<br>SYS-222H-TN-01-G2 Gold Series version with pre-configured components |

## Motherboard

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|---|---|
| **Motherboard** | Super X14DBM-SP |

## Processor

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|---|---|
| **CPU** | Dual Socket E2 (LGA-4710)<br>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<br>E-cores: Up to 144C/144T; Up to 108MB Cache per CPU |
| **Note** | Supports up to 350W TDP CPUs (Air Cooled)<br>Supports up to 350W TDP CPUs (Liquid Cooled) |

## GPU

| | |
|---|---|
| **Max GPU Count** | Up to 4 double-width or 8 single-width GPUs |
| **Supported GPU** | NVIDIA PCIe: H100 NVL, A1000, A16, L4, L40S, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition, RTX 2000 Ada, RTX 4000 Ada Generation, RTX 5000 Ada, RTX 6000 Ada Generation<br>View GPU Options |

## System Memory

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|---|---|
| **Memory** | Slot Count: 32 DIMM slots<br>Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM<br>Max Memory (1DPC): Up to 1TB 8000MT/s ECC DDR5 MRDIMM (P-core only)<br>Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM<br>View Memory Options |
| **Memory Voltage** | 1.1V |

## On-Board Devices

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|---|---|
| **NVMe** | NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)<br>View NVMe Options |
| **Network Connectivity** | Via AIOM<br>View AIOM Options<br>View AOC Options |

## Input / Output

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|---|---|
| **LAN** | 1 RJ45 1 GbE Dedicated BMC LAN port |
| **USB** | 2 USB 3.2 Gen1 ports (Header)<br>2 USB 3.2 Gen1 ports (Rear) |
| **Video** | 1 VGA port |

## System BIOS

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|---|---|
| **BIOS Type** | AMI 64MB SPI Flash |

## Management

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|---|---|
| **Software** | SuperCloud Composer® (SCC)<br>Supermicro Server Manager (SSM)<br>Super Diagnostics Offline (SDO)<br>Supermicro Thin-Agent Service (TAS)<br>SuperServer Automation Assistant (SAA) New! |
| **Power configurations** | Power-on mode for AC power recovery<br>ACPI Power Management |

## Security

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

## PC Health Monitoring

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

## Certifications

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|---|---|
| **Operating Systems** | ESXi 8.0 U3, ESXi 9.0, Oracle Linux 9.4, Oracle Linux 9.6, RHEL 9.4, RHEL 10.0, SLES 16.0, Ubuntu 24.04 LTS, Windows Server 2022, Windows Server 2025<br>View all OS Compatibility and Certification Matrix |

## Chassis

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|---|---|
| **Form Factor** | 2U Rackmount |
| **Model** | CSE-HS219-R000NP |

## Dimensions and Weight

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|---|---|
| **Height** | 3.5" (88 mm) |
| **Width** | 17.3" (438.4 mm) |
| **Depth** | 29.73" (755.2 mm) |
| **Package** | 10.12" (H) x 23.82" (W) x 37.28" (D) |
| **Weight** | Gross Weight: 66 lbs (30 kg)<br>Net Weight: 40 lbs (18.2 kg) |
| **Available Color** | Silver |

## Front Panel

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|---|---|
| **Buttons** | Power On/Off<br>UID button |
| **LED** | HDD activity<br>LAN1 activity<br>LAN2 acticity<br>Power Fail<br>Power status<br>System information (overheat/UID) |

## Expansion Slots

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|---|---|
| **PCI-Express (PCIe) Configuration** | Option A*4 PCIe 5.0 x16 FH/10.5"L double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)<br>4 PCIe 5.0 x16 FH/10.5"L double-width slots<br>1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)<br>1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)<br>Option B*8 PCIe 5.0 x8 (in x16) FH/10.5"L slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)<br>8 PCIe 5.0 x8 (in x16) FH/10.5"L slots<br>1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)<br>1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)<br>(*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.)<br>View AOC Options |
| **CXL Support** | Up to 4 CXL 2.0 x16/x8 devices |

## Drive Bays / Storage

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|---|---|
| **Drive Bays Configuration** | Default: Total 8 bays8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays<br>8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays<br>Option A: Total 16 bays16 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays<br>16 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays<br>Option B: Total 24 bays24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays<br>24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays<br>(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)<br>View NVMe Options |
| **M.2** | 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)<br>View M.2 Options |

## System Cooling

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|---|---|
| **Fans** | Up to 4x 8cm heavy duty fans with optimal fan speed control |
| **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<br>1200W: 200-240Vac / 50-60Hz<br>1200W: 230-240Vdc / 50-60Hz (for CCC only) |
| **+12V** | Max: 66.7A / Min: 0A (100Vac-127Vac)<br>Max: 100A / Min: 0A (200Vac-240Vac)<br>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<br>1800W: 200-220Vac / 50-60Hz<br>1980W: 220-230Vac / 50-60Hz<br>2000W: 230-240Vac / 50-60Hz<br>2000W: 200-240Vac / 50-60Hz (for UL/cUL only) |

| | |
|---|---|
| **+12V** | Max: 83.3A / Min: 0A (100Vac-120Vac)<br>Max: 150A / Min: 0A (200Vac-220Vac)<br>Max: 165A / Min: 0A (220Vac-230Vac)<br>Max: 166.7A / Min: 0A (200Vac-240Vac) (for UL/cUL only)<br>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<br>1600W: 200-240Vac / 50-60Hz<br>1600W: 200-240Vdc / 50-60Hz (for CQC only) |
| **+12V** | Max: 83.3A / Min: 0A (100Vac-127Vac)<br>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<br>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

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

## Environmental / Recycling

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|---|---|
| **Recycle** | Return Server-End of Life Product |