

# IoT SuperServer SYS-220HE-TNRD

X12 DP 2U Short-depth rear I/O System with 6 NVMe/SATA bays and redundant DC PSU



More details here

## Key Applications

5G Core and Edge, Telecom Micro Data Center, AI Inference and Machine Learning, Network Function Virtualization, Cloud Computing,

## Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 3 PCIe 4.0 x16 slots with GPU/Accelerator support (Default); 1 PCIe 4.0 x16 expansion slots (Optional);
- Flexible networking options with 2 AIOM networking slots (OCP NIC 3.0 compatible);
- Up to 6x 2.5" hot-swap drive bays with options to support NVMe/SATA drives;
- 6 heavy duty hot-swap fans with optimal fan speed control Rear I/O, tool-less design;
- 1300W DC power supplies;



<b>Form Factor</b>	2U Rackmount Enclosure: 436.88 x 88.9 x 574mm (17.2" x 3.5" x 22.6") Package: 598 x 247 x 938mm (23.5" x 9.7" x 36.9")
<b>Processor</b>	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors
<b>GPU</b>	Max GPU Count: Up to 3 double-width or 3 single-width GPUs Supported GPU: NVIDIA PCIe: T4, A40, A100, A10 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
<b>System Memory</b>	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
<b>Drive Bays Configuration</b>	Default: Total 6 bays <ul style="list-style-type: none"> <li>• 6 front hot-swap 2.5" NVMe/SAS*/SATA drive bays</li> </ul> (*SAS support may require additional storage controller and/or cables) M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110)
<b>Expansion Slots</b>	Default <ul style="list-style-type: none"> <li>• 2 PCIe 4.0 x8 FH/10.5"L slots</li> <li>• 2 PCIe 4.0 x8 FHHL slots</li> <li>• 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> Option A <ul style="list-style-type: none"> <li>• 1 PCIe 4.0 x16 FH/10.5"L slot</li> <li>• 1 PCIe 4.0 x16 FHHL slot</li> <li>• 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> Option B <ul style="list-style-type: none"> <li>• 6 PCIe 4.0 x8 FH/10.5"L slots</li> <li>• 2 PCIe 4.0 x8 FHHL slots</li> <li>• 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> Option C <ul style="list-style-type: none"> <li>• 3 PCIe 4.0 x16 FH/10.5"L slots</li> <li>• 1 PCIe 4.0 x16 FHHL slot</li> <li>• 2 PCIe 4.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul>
<b>On-Board Devices</b>	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Chipset: Intel® C621A Network Connectivity: Via AIOM

## Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port

USB: 2 USB 2.0 ports(front)

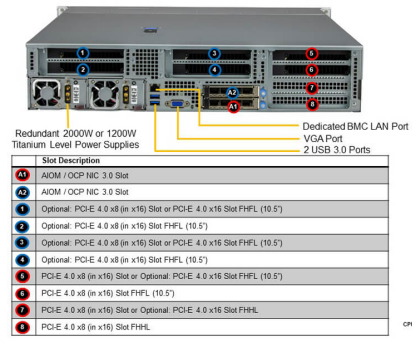
Video: 1 VGA port

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Slot	Description
1 – 2	2.5" Hot-swap NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU1)**
3 – 6	2.5" Hot-swap NVMe/SAS3/SATA3 Drive Bays (NVMe from CPU2)**

\*\*SAS3 support requires additional parts in optional parts list



System Cooling	Fans: 6 Hot-swappable 60x60x56mm Fan(s) Air Shroud: 4 Air Shrouds
Power Supply	1x 1300W Redundant power supply
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 47.4 lbs (21.5 kg) Net Weight: 34.4 lbs (15.6 kg) Available Color: Silver
Operating Environment	Operating Temperature: 5°C to 35°C (41°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	<a href="#">Super X12DHM-6</a>
Chassis	CSE-HE211-R000NFP