IoT SuperServer SYS-220HE-TNR

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

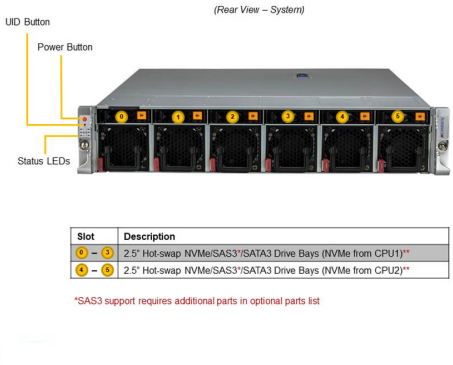
- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM;RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 3 PCIe 4.0 x16 slots with GPU/Accelerator support (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;
- Redundant 2000W redundant AC power supplies;

Form Factor	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")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors
GPU	Max GPU Count: Up to 3 double-width or 3 single-width GPU(s) Supported GPU: NVIDIA PCIe: T4, A40, A100, A10 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 6 bay(s) • 6 front hot-swap 2.5" NVMe/SAS*/SATA drive bay(s) (*SAS support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)
Expansion Slots	Default • 2 PCIe 4.0 x8 FH/10.5"L slot(s) • 2 PCIe 4.0 x8 FHHL slot(s) • 2 PCIe 4.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option A • 1 PCIe 4.0 x16 FH/10.5"L slot(s) • 1 PCIe 4.0 x16 FHHL slot(s) • 2 PCIe 4.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B • 6 PCIe 4.0 x8 FH/10.5"L slot(s) • 2 PCIe 4.0 x8 FHHL slot(s) • 2 PCIe 4.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option C • 3 PCIe 4.0 x16 FH/10.5"L slot(s) • 1 PCIe 4.0 x16 FHHL slot(s) • 2 PCIe 4.0 x16 AIOM slot(s) (OCP 3.0 compatible)
On-Board Devices	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

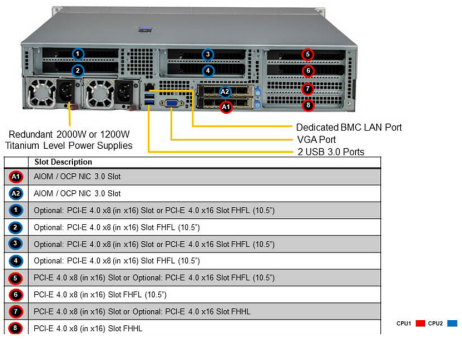
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port(s) USB: 2 USB 2.0 port(s) (front) Video: 1 VGA port(s)

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Slot	Description
0 – 3	2.5" Hot-swap NVMe/SAS3*/SATA3 Drive Bays (NVMe from CPU1)**
4 – 5	2.5" Hot-swap NVMe/SAS3*/SATA3 Drive Bays (NVMe from CPU2)**

*SAS3 support requires additional parts in optional parts list



	Slot Description
A1	AIOM / OCP NIC 3.0 Slot
A2	AIOM / OCP NIC 3.0 Slot
1	Optional: PCI-E 4.0 x8 (in x16) Slot or PCI-E 4.0 x16 Slot FHFL (10.5")
2	Optional: PCI-E 4.0 x8 (in x16) Slot FHFL (10.5")
3	Optional: PCI-E 4.0 x8 (in x16) Slot or PCI-E 4.0 x16 Slot FHFL (10.5")
4	Optional: PCI-E 4.0 x8 (in x16) Slot FHFL (10.5")
5	PCI-E 4.0 x8 (in x16) Slot or Optional: PCI-E 4.0 x16 Slot FHFL (10.5")
6	PCI-E 4.0 x8 (in x16) Slot FHFL (10.5")
7	PCI-E 4.0 x8 (in x16) Slot or Optional: PCI-E 4.0 x16 Slot FHHL
8	PCI-E 4.0 x8 (in x16) Slot FHHL

CPU1 CPU2

System Cooling	Fans: 6 Hot-swappable 60x60x56mm Fan(s)
Power Supply	1x 2000W Redundant Titanium Level (96%) 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 ~ 35°C (41°F ~ 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	**Super X12DHM-6**
Chassis	**CSE-HE211-R000NFP**

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