

# IoT SuperServer SYS-222HE-FTN

X14 DP 2U short-depth front I/O system with 6 hot-swap 2.5" NVMe/SAS/SATA bays and 4 PCIe 5.0 x16 slots + 2 PCIe 5.0 x16 AIOM slots



More details here

## Key Applications

Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server, 5G Networking,

## 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 (6FHFL + 2 FHHL) or 4 PCIe 5.0 x16 (3 FHFL + 1 FHHL) slots with support for double-width GPU/Accelerator cards;
- Flexible networking options with up to 2 AIOM networking slots (OCP NIC 3.0 compatible);
- 6 Rear hot-swap 2.5" NVMe/SAS/SATA drive bays with optional configurations for additional 2 or 4 front hot-swap 2.5" NVMe drive bays (space share with PCIe slots); 2x internal M.2 NVMe drive slots; Optional RAID support via storage add-on card;



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 E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
GPU	Max GPU Count: Up to 3 double-width or 4 single-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 32 DIMM slots/16 Channels Max Memory (1DPC): Up to 4 TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8 TB 5200MT/s ECC DDR5 RDIMM
Drive Bays Configuration	<p>Default: Total 6 bays</p> <ul style="list-style-type: none"> <li>• 6 rear hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> <p>Option A: Total 8 bays</p> <ul style="list-style-type: none"> <li>• 6 rear hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> <li>• 2 front hot-swap 2.5" NVMe* drive bays</li> </ul> <p>Option B: Total 10 bays</p> <ul style="list-style-type: none"> <li>• 6 rear hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> <li>• 4 front hot-swap 2.5" NVMe* drive bays</li> </ul> <p>(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110/25110)</p>
Expansion Slots	<p>PCI-Express (PCIe) Configuration: Option A*</p> <ul style="list-style-type: none"> <li>• 3 PCIe 5.0 x16 FH/10.5" L double-width slots</li> <li>• 1 PCIe 5.0 x16 FHHL slot</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> <p>Option B*</p> <ul style="list-style-type: none"> <li>• 6 PCIe 5.0 x8 (in x16) FH/10.5" L slots</li> <li>• 2 PCIe 5.0 x8 (in x16) FHHL slots</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> <p>CXL Support: Up to 4 CXL 2.0 x16/x8 devices</p> <p>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)</p>
On-Board Devices	NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)

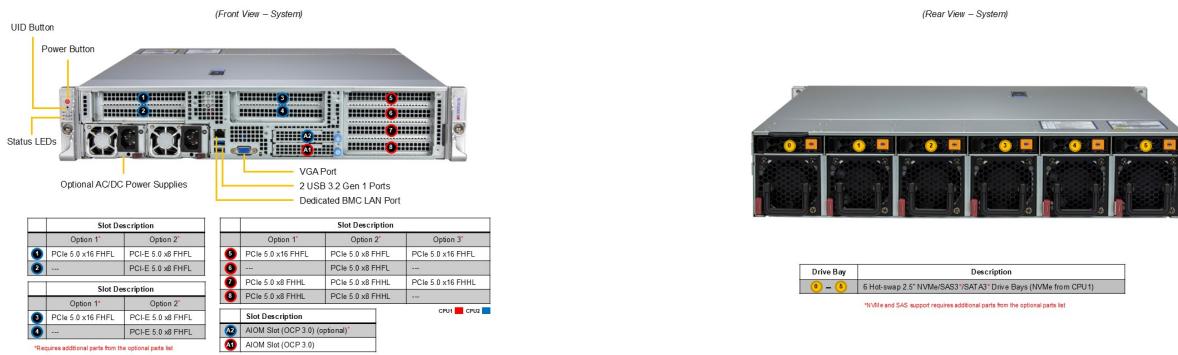
**Input / Output**

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port

USB: 2 USB 3.0 ports(front)

Video: 1 VGA port

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#### System Cooling

Fans: Up to 6 counter-rotating 60x60x56mm Fan(s)

Air Shroud: 4 Air Shrouds

Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)

#### Power Supply

2x 2000W Redundant (1 + 1) Titanium (certification pending) Level (96%) Hot-plug power supplies

#### System BIOS

BIOS Type: AMI 64MB SPI Flash

#### Management

SuperCloud Composer®; Supermicro Server Manager (SSM); 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

Pulse Width Modulated (PWM) fan connectors

Status monitor for speed control

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: 10°C to 35°C (50°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

[Super X14DBM-SP](#)

#### Chassis

[CSE-HE211-R000NFP](#)