

# IoT SuperServer SYS-212B-FN4TP

X14 2U Short-depth Front I/O System with 4x 10G ports, 2x 2.5" NVMe and redundant AC/DC PSU



## Key Applications

5G Core and Edge, AI Inference and Machine Learning, Network Function Virtualization, Cloud Computing,

## Key Features

- Design with compliance to NEBS-Level 3;
- Single Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores;
- Up to 2TB ECC RDIMM DDR5-6400MT/s or up to 512GB MRDIMM DDR5-8000MT/s in 8 DIMM slots;
- Up to 4 PCIe 5.0 x16 (3 FHHL + 1 HHHL) & 1 PCIe 5.0 x8 FHHL expansion slots for Accelerator Add-On-Cards;
- Onboard 2x 10GbE, 2X 10G SFP+;
- Optional 2 front hot-swap 2.5" NVMe drive bays;

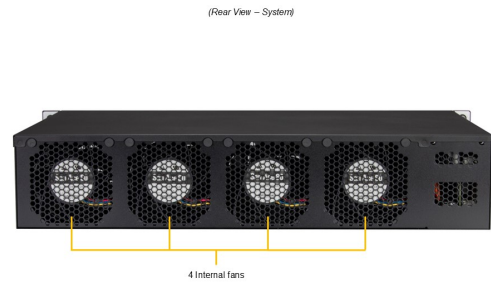
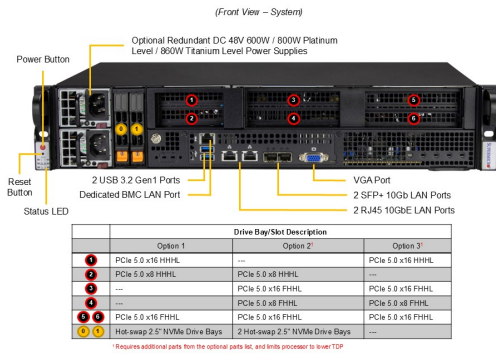


<b>Form Factor</b>	2U Rackmount Enclosure: 436.88 x 88.9 x 298.8mm (17.2" x 3.5" x 11.8") Package: 490 x 188 x 590mm (19.3" x 7.4" x 23.3")
<b>Processor</b>	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
<b>GPU</b>	Max GPU Count: Up to 3 single-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
<b>System Memory</b>	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 512GB 8000MT/s ECC DDR5 MRDIMM (P-core only)
<b>Drive Bays Configuration</b>	Default: Total 2 bays <ul style="list-style-type: none"> <li>• 2 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays</li> </ul> (*NVMe support may require additional storage controller and/or cables) M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)
<b>Expansion Slots</b>	PCI-Express (PCIe) Configuration: Default* <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHHL slots</li> <li>• 1 PCIe 5.0 x16 HHHL slot</li> <li>• 1 PCIe 5.0 x8 HHHL slot</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 3 PCIe 5.0 x16 FHHL slots</li> <li>• 1 PCIe 5.0 x8 FHHL slot</li> <li>• 1 PCIe 5.0 x8 HHHL slot</li> </ul> Option B* <ul style="list-style-type: none"> <li>• 3 PCIe 5.0 x16 FHHL slots</li> <li>• 1 PCIe 5.0 x8 FHHL slot</li> <li>• 1 PCIe 5.0 x16 HHHL slot</li> </ul> (*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.) M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key)
<b>On-Board Devices</b>	NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required) Chipset: System on Chip Network Connectivity: 2 RJ45 10GBASE-T with Intel® X710-TM4 2 SFP+ 10GbE with Intel® X710-TM4

## Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  
2 SFP+ 10 GbE LAN ports  
2 RJ45 10 GbE LAN ports (Intel® X550-AT2)  
USB: 2 USB 3.2 Gen1 Type-A ports(front)  
Video: 1 VGA port

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System Cooling	Fans: 4x 4-PIN PWM 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 800W Redundant (1 + 1) Platinum Level (94%) power supplies
System BIOS	BIOS Type: AMI 256MB 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 Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment CPU thermal trip support, PEPI
Dimensions and Weight	Weight: Gross Weight: 22 lbs (10 kg) Net Weight: 17 lbs (7.7 kg) Available Color: Silver/Black
Operating Environment	Operating Temperature: 5°C to 45°C (41°F to 113°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 X14SBM-TP4F</a>
Chassis	<b>CSE-211M-R000NDP</b>