

IoT SuperServer SYS-221HE-FTNRD



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 E (LGA-4677) 4th Gen Intel® Xeon® Scalable processors;
- 32 DIMM Slots; Up to 8TB: 32x 256GB DRAM;
- Configurable PCIe slot options up to 8 PCIe 5.0 x8 (6 FHFL+ 2 FHHL) or 4 PCIe 5.0 x16 (3 FHFL + 1 FHHL);
- 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;
- 2x 1300W DC 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

4th Gen Intel® Xeon® Scalable processors
Dual Socket LGA-4677 (Socket E) supported
4 UPI Intel Xeon CPU Max Series with high bandwidth memory (HBM)
(Supports up to 350W TDP CPUs (Aircooled), Supports up to 350W TDP CPUs (Liquid Cooled))

System Memory

32 DIMM slots
Up to 8TB ECC RDIMM/LRDIMM, DDR5-4800MHz

Drive Bays

6x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe hybrid;
Optional RAID support via RAID Controller AOC

Expansion Slots

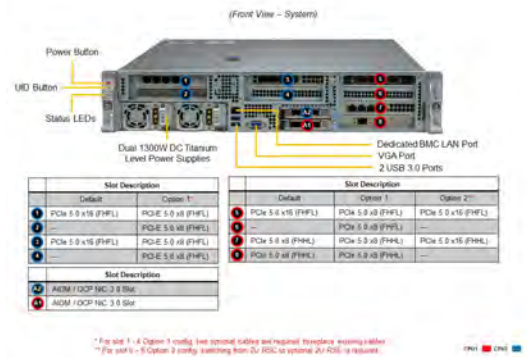
6 PCIe 4.0 x16 FHFL slot(s)
2 PCIe 4.0 x16 FHHL slot(s)
Note:
If Slot 1 is configured as PCIe x16, Slot 2 will be disabled; If Slot 3 is configured as PCIe x16, Slot 4 will be disabled;
If Slot 5 is configured as PCIe x16, Slot 6 will be disabled; (Optional) If Slot 7 is configured as PCIe x16, Slot 8 will be disabled.

On-Board Devices

SATA: SATA3 (6Gbps); RAID 0/1/5/10 support
NVMe: NVMe; RAID 0/1/5/10 support (Intel® VROC RAID Key required)
Chipset: Intel® C741
Network Connectivity: 2x 25GbE SFP28 with Broadcom® BCM57414 (optional)
2x 100GbE QSFP28 with Broadcom® BCM57508 (optional)
2x 100GbE QSFP28 with Intel® E810-CAM2 (optional)
2x 100GbE QSFP28 with Mellanox® CX-6 DX (optional)
4x 10GbE SFP+ with Intel® X710-BM2 (optional)
4x 10GbE BaseT with Intel® X550 (optional)
IPMI: Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

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



System Cooling	6 heavy duty fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 1300W -48Vdc single output power supply Dimension (W x H x L): 73.5 x 40 x 203 mm
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	IPMI 2.0; SuperDoctor® 5; Watch Dog; NMI; KVM with dedicated LAN; Intel® Node Manager; Redfish API; SPM; SUM; SSM
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	Height: 3.5" (88.9 mm) Width: 17.2" (436.88 mm) Depth: 22.6" (574 mm) Gross Weight: 47.4 lbs (21.5 kg) Net Weight: 34.4 lbs (15.6 kg) Packaging: 9.7" (H) x 23.5" (W) x 36.9" (D) 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 X13DEM
Chassis	CSE-HE211-R000NFP