IoT SuperServer SYS-211E-FRDN13P

2U Short-depth front I/O System with 12 x 25G ports, time sync function and DC redundant PSU

More details here

Key Applications

Cloud Computing, Network Function Virtualization (NFV), VRAN/ORAN for Telecom,



Key Features

- Design with compliance to NEBS-Level 3
  Onboard DPLL/OCXO, Up to 8 hours hold-over
  IEEE 1588 PTP, SyncE and integrated GNSS / 1PPS / 10MHz design for high-precision timing sync;
- Single Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 8 DIMM slots, Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM;
- 2x PCIe 5.0 x8 FHHL expansion slots for Accelerator Add-On-Cards;
- Onboard 12x 25GbE SFP28 ports;
- 2x 2.5" drive bays for SSD drives;
- 2x 600W DC -48V Power Supplies;
- Ultra short depth, 2U Front I/O Edge Server
  1 x RJ45 for dry contact;

Form Factor	2U Rackmount Enclosure: 436.88 x 88.9 x 298.8mm (17.2" x 3.5" x 11.8") Package: 490 x 338 x 590mm (19.3" x 13.31" x 23.3")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®4th Gen Intel® Xeon® Scalable processors Up to 32C/64T; Up to 82.5MB Cache
GPU	Up to 1 double-width GPU
System Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 internal fixed 2.5" SATA drive bays M.2: 1 M.2 NVMe slot (M-key 2280)
Expansion Slots	Default • 2 PCIe 5.0 x8 FHHL slots
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1 support(Intel® VROC RAID key required) Network Connectivity: 1 RJ45 1GbE with Intel® I210-AT 12 QSFP28 25GbE with Intel® E810-CAM1
Input / Output	LAN: 1 RJ45 1 GbE LAN port (IPMI shared on LAN port 1) 12 SFP28 25 GbE LAN ports (IPMI shared on LAN port 10) USB: 2 USB 3.0 ports (front) Video: 1 VGA port Others: 1 Dry contact (4 sets) port 5 SMA (GNSS / 10MHz out / 1PPS out / 10MHz in / 1PPS in) ports

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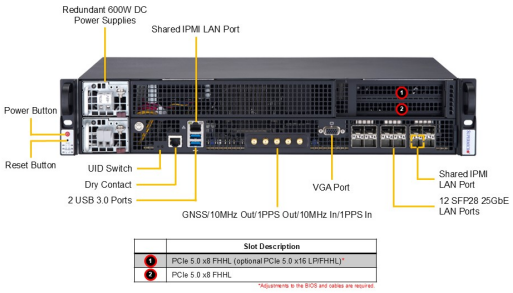
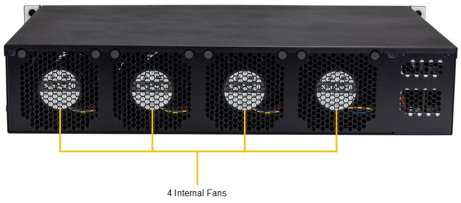
(Front View – System)



	Slot Description
1	PCIe 5.0 x8 FHHL (optional PCIe 5.0 x16 LP/FHHL)*
2	PCIe 5.0 x8 FHHL

*Adjustments to the BIOS and cables are required.

(Rear View – System)



System Cooling	Fans: Up to 4x 4-PIN PWM 8cm Fan(s) Air Shroud: 2 Air Shrouds
Power Supply	2x 600W Redundant (1 + 1) Typical 90%+ Level (96%) power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	SuperCloud Composer® (SCC); 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 Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: CPU thermal trip support, PEPI Monitoring for CPU and chassis environment
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: 0°C to 40°C (32°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	**Super X13SEVR-SP13F**
Chassis	**CSE-221M-R000NDP**

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