



# IoT SuperServer SYS-211E-FRDN13P

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

## Key Applications

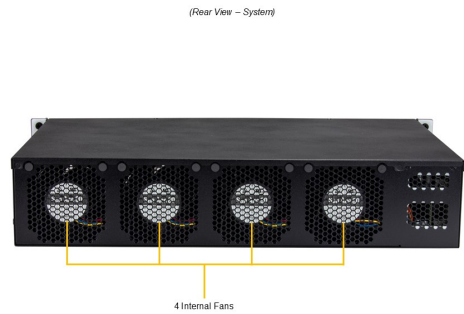
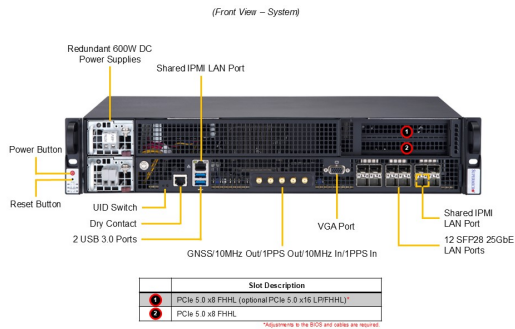
Cloud Computing, Network Function Virtualization (NFV), VRAN/ORAN for Telecom,

## 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<br>Enclosure: 436.88 x 88.9 x 298.8mm (17.2" x 3.5" x 11.8")<br>Package: 490 x 188 x 590mm (19.3" x 7.4" x 23.3")                                                                                                                                                 |
| Processor                | Single Socket E (LGA-4677)<br>5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors<br>Up to 32C/64T; Up to 82.5MB Cache                                                                                                                                               |
| GPU                      | Up to 1 double-width GPU                                                                                                                                                                                                                                                       |
| System Memory            | Slot Count: 8 DIMM slots<br>Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM                                                                                                                                                                                        |
| Drive Bays Configuration | Default: Total 2 bays <ul style="list-style-type: none"> <li>• 2 internal fixed 2.5" SATA drive bays</li> </ul> M.2: 1 M.2 NVMe slot (M-key 2280)                                                                                                                              |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x8 FHHL slots</li> </ul>                                                                                                                                                                                           |
| On-Board Devices         | SATA: SATA (6Gbps) ; RAID 0/1 support(Intel® VROC RAID key required)<br>Network Connectivity: 1 RJ45 1GbE with Intel® I210-AT<br>12 QSFP28 25GbE with Intel® E810-CAM1                                                                                                         |
| Input / Output           | LAN: 1 RJ45 1 GbE LAN port (IPMI shared on LAN port 1)<br>12 SFP28 25 GbE LAN ports (IPMI shared on LAN port 10)<br>USB: 2 USB 3.0 ports (front)<br>Video: 1 VGA port<br>Others: 1 Dry contact (4 sets) port<br>5 SMA (GNSS / 10MHz out / 1PPS out / 10MHz in / 1PPS in) ports |



|                       |                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 4x 4-PIN PWM 8cm Fan(s)<br>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<br>Fan: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: CPU thermal trip support, PEPI<br>Monitoring for CPU and chassis environment |
| Dimensions and Weight | Weight: Gross Weight: 22 lbs (10 kg)<br>Net Weight: 17 lbs (7.7 kg)<br>Available Color: Silver/Black                                                                                                                                                                         |
| Operating Environment | Operating Temperature: 0°C to 40°C (32°F to 104°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 80% (non-condensing)<br>Non-operating Relative Humidity: 8% to 90% (non-condensing)                                    |
| Motherboard           | <a href="#">Super X13SEVR-SP13F</a>                                                                                                                                                                                                                                          |
| Chassis               | CSE-221M-R000NDP                                                                                                                                                                                                                                                             |