IoT SuperServer SYS-211E-FRN13P

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

More details here

Key Applications

Network Function Virtualization, Cloud Computing, 5G CU/DU Edge Server, Flex RAN, Open RAN vBBU,

Key Features

- Design with compliance to NEBS-Level 3
  IEEE1588 v2 & Synchronous Ethernet support
  DPLL/OCXO design, Up to 8 hours hold-over;
- 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;
- Redundant 800W AC 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 188 x 590mm (19.3" x 7.4" 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(s)
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 bay(s) • 2 internal fixed 2.5" SATA drive bay(s) M.2: 1 M.2 NVMe slot(s) (M-key 2280)
Expansion Slots	Default • 2 PCIe 5.0 x8 FHHL slot(s)

On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1 support(Intel® VROC RAID key required)
	Chipset: Intel® C741
	Network Connectivity: 1 RJ45 1GbE with Intel® I210-AT
	                          12 QSFP28 25GbE with Intel® E810-CAM1
	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 1 GbE LAN port(s) (IPMI shared on LAN port 1)
	     12 SFP28 25 GbE LAN port(s) (IPMI shared on LAN port 10)
	USB: 2 USB 3.0 port(s) (front)
	Video: 1 VGA port(s)
	Others: 5 SMA (1 GNSS/4 1PPS) port(s)
	       1 Dry contact (4 sets) port(s)

(Front View – System)

(Rear View – System)

Redundant 800W Platinum Level
Power Supplies

Shared IPMI LAN Port

Power Button

UID Button

UID Switch

Dry Contact

1 GNSS + 4 1PPS

2 USB 3.0 Ports

VGA Port

12 SFP28 25GbE
LAN Ports

Shared IPMI
LAN Port

4 Internal Fans

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

*Adjustments to the BIOS and cables are required.

System Cooling	Fans: 4x 4-PIN PWM 8cm Fan(s)
Power Supply	2x 800W Redundant (1 + 1) power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0

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: 0°C ~ 40°C (32°F ~ 104°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 X13SEVR-SP13F**
Chassis	**CSE-221M-R000NDP**