

IoT SuperServer SYS-211E-FRN2T

X13 2U Short-depth front I/O System with 2 x 10G ports, 2x 2.5" NVMe drive bays and redundant AC PSU



More details here

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 Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 8 DIMM slots; Up to 2TB 3DS ECC DDR5-5600; R-DIMM/R-DIMM 3DS;
- Up to 3 PCIe 5.0 x16 FHHL, 1 PCIe 5.0 X16 HHHL & 1 PCIe 5.0 x8 FHHL expansion slots for Accelerator Add-On-Cards
Up to 6 Configurable PCIe 5.0 slots (4 standard + 2 optional);
- Onboard 2x 10GbE ports;
- 2x 2.5" NVMe drive bays;
- Redundant 800W AC Power Supplies;
- Ultra short depth, 2U Front I/O Edge Server;



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 60C/120T; Up to 112.5MB Cache
GPU	Max GPU Count: Up to 3 single-width GPU(s) Supported GPU: NVIDIA PCIe: A2 Intel PCIe: Intel Data Center GPU Flex 140 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 8 DIMM slots Max Memory (2DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 2 bay(s) <ul style="list-style-type: none"> • 2 front hot-swap 2.5" NVMe drive bay(s) M.2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x16 HHHL slot(s) • 1 PCIe 5.0 x8 HHHL slot(s) Option A* <ul style="list-style-type: none"> • 3 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x16 HHHL slot(s) • 1 PCIe 5.0 x8 FHHL slot(s) Option B* <ul style="list-style-type: none"> • 3 PCIe 5.0 x16 FHHL slot(s) • 2 PCIe 5.0 x16 HHHL slot(s) • 1 PCIe 5.0 x8 HHHL slot(s)
On-Board Devices	NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required) Chipset: Intel® C741 Network Connectivity: 2 QSFP28 25GbE with Intel® XXV710 (optional) 2 QSFP+ 40GbE with Intel® X710-BM2 (optional) 4 RJ45 1GbE with Intel® I350 (optional) 2 QSFP28 100GbE with Intel® E810-CAM2 (optional) 2 RJ45 10GBASE-T with Intel® X550 2 SFP+ 10GbE with Intel® X710-BM2 (optional) 2 QSFP56 100GbE (optional) 4 QSFP28 25GbE with Intel® E810-CAM1 (optional)

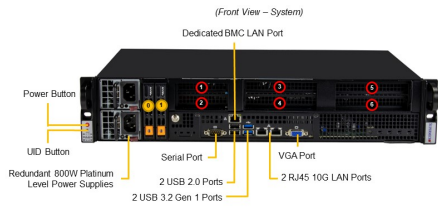
2 QSFP56 200GbE (optional)

IPMI: Support for Intelligent Platform Management Interface v.2.0

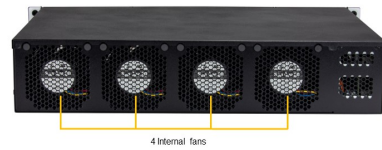
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port(s)
2 RJ45 10 GbE LAN port(s) (Intel® X550-AT2)
USB: 2 USB 2.0 port(s) (front)
2 USB 3.2 Gen1 port(s) (front)
Video: 1 VGA port(s)
Serial: 1 port(s)



(Rear View - System)



Drive Bay	Description	Slot Description		
1-4	Hot-swap 2.5"/3.5" SATA Drive Bays	Config 1 (Default)	Config 2 (Optional)	Config 3 (Optional)
1		PCIe 5.0 x16 FHFL	PCIe 5.0 x16 FHFL	PCIe 5.0 x8 FHFL
2		PCIe 5.0 x8 HHFL	---	PCIe 5.0 x8 FHFL
3		---	PCIe 5.0 x16 FHFL	PCIe 5.0 x16 FHFL
4		---	PCIe 5.0 x8 FHFL	PCIe 5.0 x8 FHFL
Slot Description				
1	PCIe 5.0 x16 FHFL			
2	PCIe 5.0 x8 FHFL			

*Config 2 and Config 3 require an optional rear card, cables and 12V/5V CPU IOP is limited to 22W, and drive bays only support up to PCIe 3.0

System Cooling	Fans: 4x 4-PIN PWM 8cm Fan(s)
Power Supply	2x 800W Redundant 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 ~ 45°C (32°F ~ 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	Super X13SEM-TF
Chassis	CSE-211M