

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

AI Inference and Machine Learning, Cloud Computing, Network Function Virtualization (NFV), 5G Networking,

Key Features

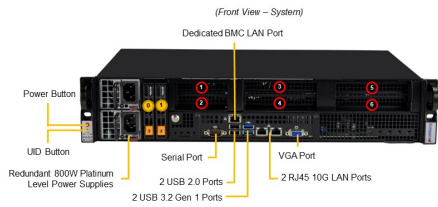
- Design with compliance to NEBS-Level 3;
- Single Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 8 DIMM slots; Up to 2TB 3DS ECC DDR5-5600; R-DIMM/R-DIMM 3DS;
- Up to 3 PCIe 5.0 x16 FHHL, 1 PCIe 5.0 X16 HHHL & 1 PCIe 5.0 x8 FHHL expansion slots for Accelerator Add-On-Cards
Up to 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;



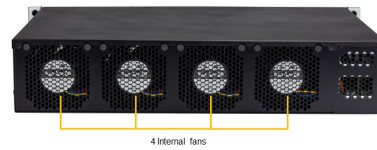
Form Factor	2U Rackmount Enclosure: 436.88 x 88.9 x 298.8mm (17.2" x 3.5" x 11.8") Package: 490 x 188 x 590mm (19.3" x 7.4" x 23.3")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 60C/120T; Up to 112.5MB Cache
GPU	Max GPU Count: Up to 3 single-width GPUs 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 bays • 2 front hot-swap 2.5" NVMe drive bays M.2: 2 M.2 NVMe slots (M-key 2280/22110)
Expansion Slots	Default • 2 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x16 HHHL slot • 1 PCIe 5.0 x8 HHHL slot Option A* • 3 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x16 HHHL slot • 1 PCIe 5.0 x8 FHHL slot Option B* • 3 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x8 HHHL slots • 1 PCIe 5.0 x8 HHHL slot
On-Board Devices	NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required) 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)

Input / Output

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



(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 FHFL	---	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/5A CPU TDP is limited to 225W and drive bays only support up to PCIe 3.0

System Cooling	Fans: Up to 4x 4-PIN PWM 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 800W Redundant Platinum Level (94%) power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	SuperCloud Composer®; 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 45°C (32°F to 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	<u>Super X13SEM-TF</u>
Chassis	CSE-211M