IoT SuperServer SYS-211E-FRDN2T

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

More details here

Key Applications

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



Key Features

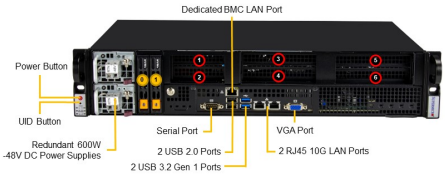
- Design with compliance to NEBS-Level 3;
- Single Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 8 DIMM slots; Up to 2TB 3DS ECC DDR5-5600; R-DIMM/R-DIMM 3DS;
- Up to 3 PCIe 5.0 x16 FHHL, 1 PCIe 5.0 X16 HHHL & 1 PCIe 5.0 x8 FHHL expansion slots for Accelerator Add-On-Cards
  Up to 6 Configurable PCIe 5.0 slots (4 standard + 2 optional);
- Onboard 2x 10GbE ports;
- 2x 2.5" NVMe drive bays;
- Redundant 600W DC -48V 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 338 x 590mm (19.3" x 13.3" 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
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) BMC: ASPEED AST2600 BMC
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

©2026 Copyright Super Micro Computer, Inc. All rights reserved. *Product specifications may change without notice

(Front View – System)



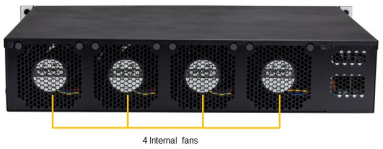
Drive Bay	Description
0 – 1	Hot-swap 2.5" NVMe Drive Bays

	Slot Description
5 6	PCIe 5.0 x16 FHHL

	Slot Description		
	Config 1 (Default)	Config 2 (Optional)*	Config 3 (Optional)*
1	PCIe 5.0 x16 HHHL	PCIe 5.0 x16 HHHL	PCIe 5.0 x8 HHHL
2	PCIe 5.0 x8 HHHL	---	PCIe 5.0 x8 HHHL
3	---	PCIe 5.0 x16 FHHL	PCIe 5.0 x16 FHHL
4	---	PCIe 5.0 x8 FHHL	PCIe 5.0 x8 FHHL

* Config 2 and config 3 require an optional riser card, cables and 1U heatsink; CPU TDP is limited to 225W; and drive bays only support up to PCIe 3.0.

(Rear View – System)



System Cooling	Fans: Up to 4x 4-PIN PWM 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 600W Redundant 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 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	**Super X13SEM-TF**
Chassis	**CSE-211M**

©2026 Copyright Super Micro Computer, Inc. All rights reserved. *Product specifications may change without notice