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

5G Core and Edge, AI Inference and Machine Learning, Network Function Virtualization, Cloud Computing,



Key Features

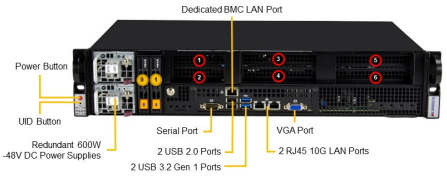
- Design with compliance to NEBS-Level 3;
- Single Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- 8 DIMM slots; Up to 2TB 3DS ECC DDR5-5600; R-DIMM/R-DIMM 3DS;
- Up to 3 PCIe 5.0 x16 FHHL, 1 PCIe 5.0 X16 HHHL & 1 PCIe 5.0 x8 FHHL expansion slots for Accelerator Add-On-Cards
  Up to 6 Configurable PCIe 5.0 slots (4 standard + 2 optional);
- Onboard 2x 10GbE ports;
- 2x 2.5" NVMe drive bays;
- Redundant 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 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
Expansion Slots	Default • 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* • 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* • 3 PCIe 5.0 x16 FHHL slot(s) • 2 PCIe 5.0 x8 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)
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)

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(Front View – System)



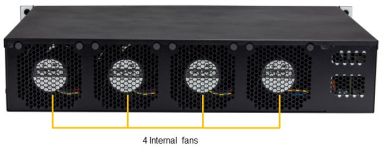
Drive Bay	Description
0 – 1	Hot-swap 2.5" NVMe Drive Bays

	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: 4x 4-PIN PWM 8cm Fan(s)
Power Supply	2x 600W Redundant Typical 90%+ Level (92%) 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 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**

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