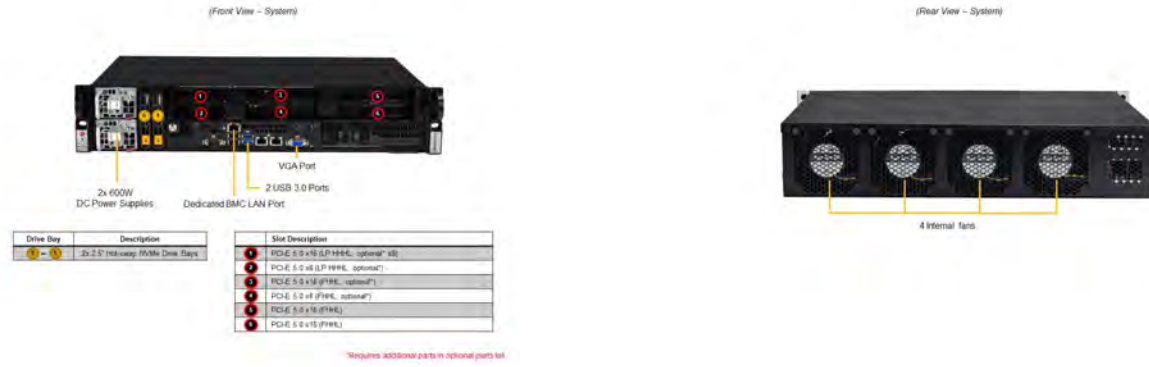# IoT SuperServer SYS-211E-FRDN2T

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) 4th Gen Intel® Xeon® Scalable processors;
- 8 DIMM slots; Up to 2TB 3DS ECC DDR5-4800: RDIMM/LRDIMM;
- 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;
- Onboard 2x 10GbE ports;
- 2x 2.5" drive bays for NVMe drives;
- 2x 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	4th Gen Intel® Xeon® Scalable processors Single Socket LGA-4677 (Socket E) supported (CPUs (air cooled) with TDP over 225W are only supported under specific conditions. Contact customer support for details., Supports up to 270W TDP CPUs (Air Cooled))
System Memory	8 DIMM slots Up to 2TB ECC RDIMM/LRDIMM, DDR5-4800MHz
Drive Bays	2x 2.5" hot-swap NVMe drive bays (2x 2.5" NVMe dedicated) 2 M.2 NVMe M-Key, 2280/22110
Expansion Slots	1 PCIe 5.0 x16 HHHL slot(s) 1 PCIe 5.0 x8 HHHL slot(s) 2 PCIe 5.0 x16 FHHL slot(s)
On-Board Devices	NVMe: NVMe; RAID 0/1 support (Intel® VROC RAID Key required) Chipset: Intel® C741 Network Connectivity: 2x 100GbE QSFP28 with Intel® E810-CAM2 (optional) 2x 25GbE QSFP28 with Intel® XXV710 (optional) 2x 25GbE QSFP28 with Intel® E810-CAM1 (optional) 2x 40GbE QSFP+ with Intel® XL710-BM2 (optional) 2x 10GbE SFP+ with Intel® X710-BM2 (optional) 4x 1GbE BaseT with Intel® i350 (optional) 2x 200GbE QSFP56 with Mellanox® MT28908A0-XCCF-HVM (optional) 2x 10GbE BaseT with Intel® X550 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: 2 RJ45 10GbE (Intel® X550-AT2) 1 RJ45 Dedicated BMC LAN port USB: 2 USB 3.0 port(s) (2 front) 2 USB 2.0 port(s) (2 front) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 front COM port)

System Cooling	4 heavy duty fan(s)
Power Supply	1U 600W Redundant short depth DC48V input redundant power supply Dimension (W x H x L): 54.5 x 40 x 220 mm
System BIOS	BIOS Type: AMI 256MB SPI Flash
Management	IPMI 2.0; SuperDoctor® 5; Watch Dog; NMI; KVM with dedicated LAN; SPM; Intel® Node Manager; IPMI 2.0; Redfish API; SSM; SUM

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	Height: 3.5" (88.9 mm) Width: 17.2" (436.88 mm) Depth: 11.8" (298.8 mm) Gross Weight: 22 lbs (10 kg) Net Weight: 17 lbs (7.7 kg) Packaging: 7.4" (H) x 19.3" (W) x 23.3" (D) Available Color: Silver/Black
Operating Environment	Operating Temperature: 0°C ~ 35°C (32°F ~ 95°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