IoT SuperServer SYS-211SE-31DS

X13 SuperEdge 2U3-Node UP front I/O short-depth server

More details here

Key Applications

Multi-Access Edge Computing (MEC), VRAN/ORAN for Telecom, Enterprise Edge,

Key Features

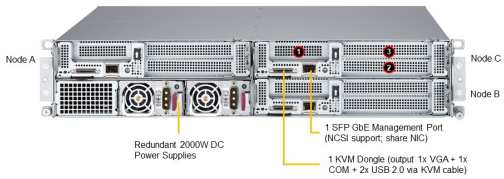
- Three hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:;
- Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon Scalable processors (per node);
- 8 DIMMs; Up to 2TB 3DS ECC DDR5-5600MT/s RDIMM/LRDIMM (per node);
- 2 PCIe Gen5 x16 FHHL slot and 1 PCIe Gen5 x16 HHHL slot (per node);
- 2 NVMe M.2 2280/22110 (per node);
- 4 counter-rotated fan speed control (per node); 1 Air Shroud (per node);
- Front-access 1+1 Redundant 2000W DC Power Supplies (per system);
- Operating Temperature 0°C to 35°C (32°F to 95°F) CPU TDP max 300W
  Operating Temperature 0°C to 55°C (32°F to 131°F) CPU TDP max 205W
  Operating Temperature -5°C to 55°C (23°F to 131°F) CPU TDP max 205W (Short Term);



Form Factor	2U Rackmount Enclosure: 449 x 88 x 430mm (17.7" x 3.5" x 16.9") Package: 750 x 240 x 590mm (29.5" x 9.5" x 23.2")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®4th Gen Intel® Xeon® Scalable processors Up to 52C/104T; Up to 97.5MB Cache
System Memory	Slot Count: 8 DIMM slots/1 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	2 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280/22110; VROC required for RAID)
Expansion Slots	Default • 1 PCIe 5.0 x16 HHHL slot • 2 PCIe 5.0 x16 FHHL slots
On-Board Devices	1 SFP 1GbE with Intel® I210-IS
Input / Output	LAN: 1 SFP 1 GbE LAN port (Intel® I210-IS) (IPMI shared on LAN port 1) TPM: 1 TPM header Others: 1 KVM dongle (output 1x VGA/1x COM/2x USB 2.0 via KVM cable) port

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(Front View – System)



Slot (Node A-C)	Description
1	PCIe 5.0 x16 (LP) slot
2	PCIe 5.0 x16 (FHHL) slot
3	PCIe 5.0 x16 (FHHL) slot

(Rear View – System)



System Cooling	Fans: Up to 12x 4cm heavy duty fans with optimal fan speed control 40x40x56mm Fan(s) Air Shroud: 3 Air Shrouds
Power Supply	2x 2000W Redundant (1 + 1) 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: 70.6 lbs (32 kg) Net Weight: 55.1 lbs (25 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 0°C to 35°C (32°F to 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 X13SEED-SF**
Chassis	**CSE-SE201-R2K06P**

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