

# IoT SuperServer SYS-210SE-31D

X12 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,

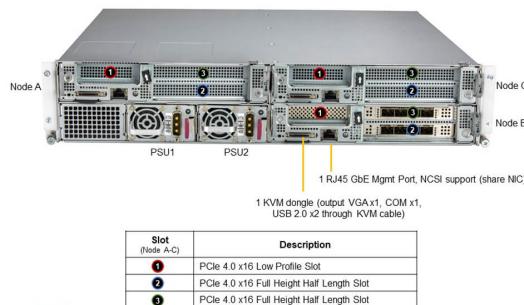
## Key Features

- Three **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following:;
- Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processor (per node);
- 8 DIMMs; Up to 2TB 3DS ECC DDR4-3200: RDIMM/LRDIMM (per node);
- 2 PCIe Gen4 x16 FHHL slot and 1 PCIe Gen4 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);



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 P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 32C/64T; Up to 48MB Cache
System Memory	Slot Count: 8 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110; VROC required for RAID)
Expansion Slots	Default <ul style="list-style-type: none"><li>• 1 PCIe 4.0 x16 HHHL slot</li><li>• 2 PCIe 4.0 x16 FHHL slots</li></ul>
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 1 RJ45 1GbE with Intel® I210-AT
Input / Output	LAN: 1 RJ45 1 GbE LAN port (Intel® I210-AT) (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

(Front View – System)



(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 32MB UEFI  
BIOS Features: SMBIOS 2.8  
Plug and Play (PnP)  
PCI FW 3.2  
ACPI 6.4  
UEFI 2.8A  
SMBIOS 2.8/3.5

**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: 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 X12SPEF](#)

**Chassis** CSE-SE201-R2K06P