

IoT SuperServer SYS-210SE-31A

X12 SuperEdge 2U3-Node UP front I/O short-depth server



Key Applications

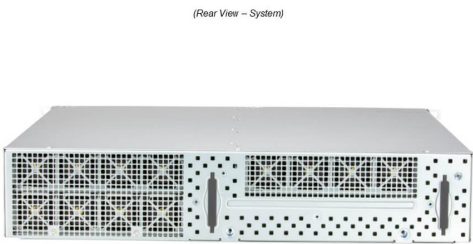
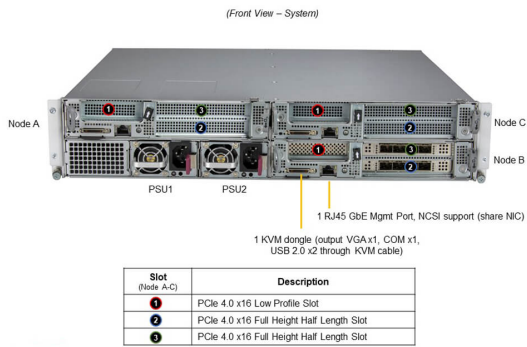
Multi-Access Edge Computing (MEC), VRAN/ORAN for Telecom, Enterprise Edge,

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 2000W AC Redundant 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 NVMe slots (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> • 1 PCIe 4.0 x16 HHHL slot • 2 PCIe 4.0 x16 FHHL slots
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



System Cooling	<p>Fans: Up to 12x 4cm heavy duty fans with optimal fan speed control 40x40x56mm Fan(s)</p> <p>Air Shroud: 3 Air Shrouds</p>
Power Supply	2x 2000W Redundant (1 + 1) power supplies
System BIOS	<p>BIOS Type: AMI 32MB UEFI</p> <p>BIOS Features: SMBIOS 2.8</p> <p>Plug and Play (PnP)</p> <p>PCI FW 3.2</p> <p>ACPI 6.4</p> <p>UEFI 2.8A</p> <p>SMBIOS 2.8/3.5</p>
Management	<p>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!</p>
PC Health Monitoring	<p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Status monitor for speed control</p> <p>Temperature: CPU thermal trip support, PEPI</p> <p>Monitoring for CPU and chassis environment</p>
Dimensions and Weight	<p>Weight: Gross Weight: 70.6 lbs (32 kg)</p> <p>Net Weight: 55.1 lbs (25 kg)</p> <p>Available Color: Silver</p>
Operating Environment	<p>RoHS Compliant</p> <p>Operating Temperature: 0°C to 35°C (32°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>
Motherboard	Super X12SPED-F
Chassis	CSE-SE201-R2K07P