

# IoT SuperServer SYS-211TP-HPTRD

X13 SuperEdge 2U4-Node UP rear I/O server with 24 SATA bays



## Key Applications

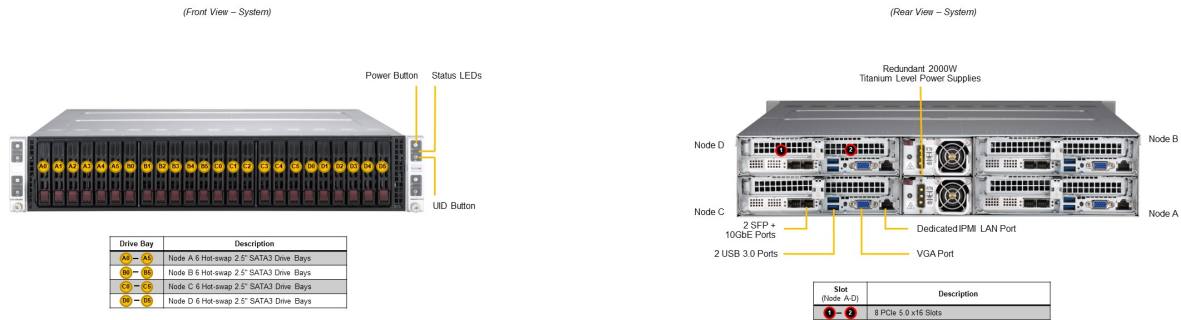
Multi-Access Edge Computing (MEC), VRAN/ORAN for Telecom, Enterprise Edge,

## Key Features

- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- Single Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors (per node);
- Intel® C741 Chipset;
- 8 DIMMs; Up to 2TB ECC DDR5-5600MT/s R-DIMM / R-DIMM 3DS (per node);
- 2 PCIe Gen5 x16 HHHL slot (per node);
- 2 NVMe M.2 2280 / 25110 (per node)
- Front hot-swappable 2.5” HDD/SSD tray (6 tray per node);
- 4 heavy duty 8cm PWM fans with optimal fan speed control (Per System);
- 1+1 Redundant 2000W DC Power Supplies (per system);
- Intel® X710 Dual port 10G SFP+ onboard;



|                          |                                                                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 438 x 88 x 730mm (17.25" x 3.5" x 28.75")<br>Package: 526 x 250 x 965mm (20.7" x 9.8" x 38")                                                                            |
| Processor                | Single Socket E (LGA-4677)<br>5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors<br>Up to 60C/120T; Up to 300MB Cache                                                                 |
| System Memory            | Slot Count: 8 DIMM slots/1 Channels<br>Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM                                                                                                        |
| Drive Bays Configuration | Default: Total 6 bays <ul style="list-style-type: none"> <li>• 6 front hot-swap 2.5" SATA drive bays</li> </ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280/22110/25110; VROC required for RAID) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 HHHL slots</li> </ul>                                                                                                              |
| On-Board Devices         | SATA: SATA (6Gbps)<br>Chipset: Intel® C741<br>Network Connectivity: 2 SFP+ 10GbE with Intel® X710-BM2                                                                                              |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>2 SFP+ 10 GbE LAN ports (IPMI shared on LAN port 1)<br>USB: 2 USB 3.2 Gen1 Type-A ports(rear)<br>Video: 1 VGA port(Rear)                               |



|                       |                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | <p>Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control 80x80x38mm Fan(s)</p> <p>Air Shroud: 4 Air Shrouds</p>                                                                                                                                                                             |
| Power Supply          | 2x 2000W Redundant (1 + 1) power supplies                                                                                                                                                                                                                                                               |
| System BIOS           | <p>BIOS Type: AMI 256MB SPI Flash</p> <p>BIOS Features: RTC (Real Time Clock) Wakeup</p> <p>UEFI 2.8</p> <p>SPI dual/quad speed support</p> <p>Riser Card audio detection support</p> <p>ACPI Power Management 6.4</p> <p>SMBIOS 3.5 or later</p> <p>PCI firmware 4.0</p>                               |
| 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  | <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: 90 lbs (40.8 kg)</p> <p>Net Weight: 70 lbs (31.8 kg)</p> <p>Available Color: Black front &amp; silver body</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: 0°C to 70°C (32°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>                          |
| Motherboard           | <a href="#">Super X13SET-PT</a>                                                                                                                                                                                                                                                                         |
| Chassis               | CSE-217HQ+-R2K03BP4                                                                                                                                                                                                                                                                                     |