

IoT SuperServer SYS-E403-12P-IPA2-C

X12 IP65 designed server with 3rd Gen Intel Xeon Scalable processors

Key Applications

Multi-Access Edge Computing (MEC), Vehicle to Everything (C-V2X/V2X), Virtualized Functions and Services, VRAN/ORAN for Telecom, Edge AI,

Key Features

- IP65 enclosure for harsh outdoor environments;
- Operating Temperature -40°C ~ 46°C + Solar load;
- Cabinet intrusion detection and self-diagnosis;
- Single Socket Intel® Xeon-SP (Ice Lake) up to 32 Cores;
- 3 Hot swap fan;



Form Factor	Outdoor Enclosure: 319.4 x 786 x 300.4mm (12.58" x 30.95" x 11.83") Package: 650 x 1152 x 700mm (25.6" x 45.35" x 27.56")
Processor	Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors
System Memory	Slot Count: 8 DIMM slots Max Memory (2DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 4 bays • 4 internal fixed 2.5" SATA drive bays M.2: 1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280/22110)
Expansion Slots	Default • 3 PCIe 4.0 x16 FHFL slots
On-Board Devices	SATA: SATA (6Gbps) via Intel® C621A; RAID 0/1/5/10 support Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550-AT2
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports (Intel® X550-AT2) USB: 2 USB 2.0 Type-A ports(rear) 4 USB 3.0 Type-A ports(Rear) Video: 1 VGA port(Rear) TPM: 1 TPM header



System Cooling

Fans: Up to 3 heavy duty fans with optimal fan speed control(In server) 80x80x38mm Fan(s)
 Up to 1 Active Air Conditioner Module (On IP65 enclosure) with build-in Fan(s)
 Air Shroud: 1 Air Shroud

Power Supply

1x 680W Gold Level (92%) power supply

System BIOS

BIOS Type: AMI 32MB SPI Flash
 BIOS Features: ACPI 6.0
 Plug and Play (PnP)
 Riser Card audio detection support
 SMBIOS 3.0 or later

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!

Dimensions and Weight

Weight: Net Weight: 58.37 lbs (26.48 kg)
 Available Color: Beige

Operating Environment

Operating Temperature: -40°C to 46°C + solar load (-40°F to 115°F + solar load)
 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 X12SPW-TF](#)

Chassis

CSE-B403-C500S1-IP65