



# **Key Applications**

- Multi-Access Edge Computing
- Telecom DRAN, CRAN, and Edge Core Application

- Flex-RAN, Open-RAN vBBU
- Enterprise Edge Computing

## **Key Features**

Four 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)

Intel® C621A Chipset

8 DIMMs; Up to 2TB 3DS ECC DDR4-3200: RDIMM/LRDIMM (per node)

2 PCI-E Gen4 x16 HHHL slot (per node)

2 NVMe M.2 2280/22110 (per node)

Front hot-swappable 2.5" HDD/SSD tray (6 tay 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

# **Specifications**

**Product SKUs** 

SuperServer SYS-210TP-

**HPTRD** (Silver)

Motherboard

**Super X12SPT-PT** 

Processor (per Node)

**CPU** 

Single Socket P+ (LGA-4189)

3rd Gen Intel® Xeon® Scalable processors

Support CPU TDP 85-270W

**Please contact Supermicro Technical** Support for supporting conditions of high power (TDP >240W) processors.

Cores

Up to 32C/64T; Up to 48MB Cache

System Memory (per Node)

Memory

Memory Capacity: 8 DIMM slots Memory Type: 3200MHz ECC DDR4 RDIMM/LRDIMM

**Memory Voltage** 

1.2 V

**Error Detection** 

**On-Board Devices (per Node)** 

SATA SATA3 (6Gbps)

Chipset Intel® C621A

**Network Connectivity** 

2x 10GbE port(s)

**IPMI** 

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and

KVM-over-LAN support

Input / Output (per Node)

LAN

1 RJ45 Dedicated IPMI LAN port

2x 10GbE SFP+

USB

2 USB 3.2 Gen1 port(s) (2 USB)

Video 1 VGA port(s)

**System BIOS BIOS Type** 

AMI 32MB UEFI

Management

Software

SSM SUM

SPM

Redfish API

Intel® Node Manager KVM with dedicated LAN

Watch Dog

SuperDoctor® 5

**IPMI 2.0** 

**Power Configurations** 

Power-on mode for power recovery

**ACPI Power Management** 

**PC Health Monitoring** 

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

Chassis **Form Factor** 

2U Rackmount Model

CSE-217HQ+-R2K04BP4

**Dimensions and Weight** 

Height 3.5" (88mm)

Width

17.25" (438mm)

Depth

28.75" (730mm)

Package

9.8" (H) x 20.7" (W) x 38" (D)

Weight

Net Weight: 70 lbs (31.8 kg)

Gross Weight: 90 lbs (40.8 kg)

**Available Color** 

Silver

**Front Panel Buttons** 

Power On/Off button

Power On/Off **UID** button

**LEDs** 

**HDD** activity

LAN1 activity

LAN2 activity

Network activity LED Power status

Power status LED

System information

System information (overheat/UID) LED

**Expansion Slots (per Node)** 

PCI-Express (PCI-E)

2 PCle 4.0 x16 FHHL, 1 PCle 4.0 x16 LP

**Drive Bays / Storage (per Node) Hot-swap** 

6x 2.5" hot-swap SATA drive bays

M.2

2 M.2 NVMe

M-Key, 2280/22110

**System Cooling Air Shroud** 

4 Air Shroud(s) Air Shroud(s)

Fans

4x 8cm heavy duty fans with optimal fan speed control 80x80x38mm Fan(s)

**Power Supply** 

2000W -48Vdc single output power supply

**Total Output Power** 2000W: (-45) - (-66) Vdc

Dimension

(WxHxL) 76 x 40 x 360 mm

+12V

Max: 166.6A

5V SB Max: 6A

Certification

#### [ <u>Test Report</u> ]

**Operating Environment Environmental Spec.** 

**Operating Temperature:** 0°C ~ 35°C (32°F ~ 95°F)

Non-operating Temperature: 0°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)

### **Parts List**

### Standard Parts (Parts Included)

Motherboard / Chassis

CSE-217HQ+-R2K04BP4 Part Number MBD-X12SPT-PT

Qty

Super X12SPT-PT Motherboard 2U Chassis

Backplane

Description

BPN-ADP-6SATA3P BPN-SAS3-217HQ3 Part Number

Qty Description

Backplan adapter card; 6SATA 2U 4-Node TwinPro Backplane for ports,RoHS/REACH,PBF 6x2.5� SAS3/SATA3 HDD/SDD

Cable

Qty

Part Number CBL-PWEX-1058

48VDC input power cable for PWS-Description

2K03D-1R, 4M, 8AWG, RoHS

Air Shroud

Part Number MCP-310-21735-0B

Qty

Description SC217HQ+ Twin Pro mylar air

shroud for X12SPT-PT

Manual

Part Number MNL-2514-QRG

Qty

Description 210TP-HPTR(D) Quick Reference

Guide

Riser Card

Part Number RSC-P-6G4 RSC-PR-6-X2

Qty 4

Description 1U LHS TwinPro Riser card with one 1U RHS TwinPro Riser card with one

PCI-E 4.0x16lotH,RoHS PCI-E 4.0 x16 slot,HF,RoH

Software

Part Number SFT-OOB-LIC

Qty

Description License key for enabling OOB BIOS

management

Heatsink / Retention

Part Number SNK-P0077P

Qty

Description 1U Passive CPU Heat Sink for X12

Generation Intel Whitley and Cedar

**Island Platforms** 

\*Power Supply

Part Number PWS-2K03D-1R

Qty 2

Description -48V DC input, 12V and 5Vsb 2000W

output for 1U redundancy power supports I2C function,RoHS

\*Power Distributor

Part Number PDB-PT217-H2412

Qty 1

Description 2U support redundancy input

powers up to 2.6KW for Twin seri

\*Fan

Part Number FAN-0183L4

Qty 4

Description 80x80x38 mm, 16.5K RPM, Non-hot-

swappable Middle Cooling Fan for X11 Twin Pro, X10 and X11 Big Twin

Series Servers

Part Number MCP-220-00047-0B

Qty 24

\*Drive Tray(s)

Description Black gen 3rd hot-swap 2.5inch HDD

tray

Part Number MCP-290-00053-0N

Qty 1

Description Rail set, quick/quick, default for

2,3U 17.2";W

\*Fan Holder Part Number

\*Rail Set

MCP-320-21701-0N

Qty

Description Twin Pro fan holder (hold 2 80x38

fans),RoHS/REACH

#### Notes:

1. Parts with \* are inside the chassis

2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.