

# IoT SuperServer SYS-110D-16C-FRDN8TP

---



## Key Features

1. Intel® Xeon® Processor D-2775TE, CPU TDP 100W
2. Up to 256GB Registered ECC RDIMM, DDR4-3200MHz; Up to 512GB LRDIMM LRDIMM, DDR4-3200MHz, in 4 DIMM slots
3. 2x Internal 2.5" drive bays(2x PCI-E 4.0 NVMe x8 SlimSAS and 1x OcuLink options)
4. 4x GbE, 2x 25G SFP28 and 2x 10G Base-T
5. 1x M.2 M-Key 2242/2280 (SATA/PCI-E 3.0 x4)
6. 5x 40x56mm Hot-swap Counter-rotation PWM Fans
7. Redundant 600 W, -48 Vdc

# Specifications

## Chassis

<b>Form Factor</b>	▪ 1U Rackmount
<b>Model</b>	▪ <b>CSE-515M-R00NP2</b>

## Dimensions and Weight

<b>Height</b>	▪ 1.7" (43mm)
<b>Width</b>	▪ 17.2" (437mm)
<b>Depth</b>	▪ 15.7" (399mm)
<b>Package</b>	▪ 7.9" (H) x 26.7" (W) x 23.8" (D)
<b>Weight</b>	▪ Net Weight: 18 lbs (8.16 kg) ▪ Gross Weight: 29 lbs (13.15 kg)
<b>Available Color</b>	▪ Silver

## Front Panel

<b>Buttons</b>	▪ Power On/Off ▪ UID button
<b>LEDs</b>	▪ HDD activity ▪ LAN1 activity ▪ LAN2 activity ▪ Power status ▪ System information

## Expansion Slots

<b>PCI-Express (PCI-E)</b>	▪ Slot 6: 1 PCIe PCI-E 4.0 x16 FHFL
----------------------------	-------------------------------------

## Drive Bays / Storage

<b>Drive Bays</b>	▪ 2x 2.5" SATA/PCIe drive bays
<b>M.2</b>	▪ 1 M.2 NVMe OR 1 M.2 SATA3 ▪ M-Key, 2242/2280

## System Cooling

<b>Fans</b>	▪ 5 Counter-rotating, Hot-swappable 40x40x56mm Fan(s)
-------------	---

## Power Supply

600W Redundant DC -48V Power Supplies with PMBus

<b>Total Output Power</b>	▪ 600W : (-44) - (-65) Vdc
<b>Dimension (W x H x L)</b>	▪ 54.5 x 40 x 220 mm
<b>+12V</b>	▪ Max: 50A
<b>5V SB</b>	▪ Max: 3A / Min: 0A

## Certification

[ [Test Report](#) ]

## Operating Environment

**Product SKUs**

- SYS-110D-16C-FRDN8TP** ■ SuperServer SYS-110D-16C-FRDN8TP (**Silver**)

**Motherboard****Super X12SDV-16C-SPT8F****Processor**

- CPU**
- Single FCBGA-2579
  - Intel® Xeon® Processor D-2700 Series
  - Support CPU TDP 100W

**System Memory**

- Memory**
- Memory Capacity: 4 DIMM slots
  - Up to 256/512GB: ECC RDIMM/LRDIMM
  - Memory Type: 3200MHz ECC DDR4 RDIMM/LRDIMM

- Memory Voltage**
- 1.2 V

- Error Detection**
- ECC

**On-Board Devices**

- Chipset**
- Intel® SoC

- Network Connectivity**
- 4x 1GbE GbE
  - 2x 25GbE SFP28
  - 2x 10GbE Base-T

- 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**

- Video**
- 1 VGA port(s)

**Management**

- Software**
- SuperDoctor® 5
  - IPMI 2.0

- Power Configurations**
- ACPI Power Management
  - Power-on mode for AC power recovery

**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

**Environmental Spec.**

- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°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)



## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X12SDV-16C-SPT8F	1	Super X12SDV-16C-SPT8F Motherboard
	CSE-515M-R000NP2	1	1U Chassis
<b>Cable 1</b>	CBL-0483L	2	29CM 30AWG SATA S/S CBL
<b>Cable 2</b>	CBL-OTHR-1214-24	2	FAN cbl,1x4,M, to 1x4,F,14CM,3A/pin,22AWG,RoHS
<b>Cable 3</b>	CBL-PWCD-0974	2	48VDC input power cable, 2M, 12AWG, 3 wires, RoHS/REACH,RoHS
<b>FAN 1</b>	FAN-0207L4	2	40x40x56 mm, 13K-11K RPM,Counter-rotating, Hot-swappable Fan
<b>Parts</b>	MCP-260-00099-0B	1	1U Black I/O Shield for A2SDi-TP8F with EMI Gasket
<b>Air Shroud</b>	MCP-310-51504-0B	1	Mylar Air Shroud for SC515M + X11 SDW
<b>Manual</b>	MNL-2275-QRG	1	1019D-4C/14CN/16C-RA/DN13TP+ Quick Reference Guide
<b>Power Supply</b>	PWS-601D-1R	2	-48V DC input, 12V and 5Vsb 600W output for 1U redundancy
<b>Riser Card</b>	RSC-S-6G4	1	1U LHS Standard riser card with one PCI-E 4.0 x16 slot,HF,Ro
<b>*Power Distributor</b>	PDB-PT515M-2424	1	1U support redundancy up to 800W for SC515M chassis with ATX
<b>*Cable 4</b>	CBL-0191L	1	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,50CM,PBF
<b>*Cable 5</b>	CBL-OTHR-1214-24	3	FAN cbl,1x4,M, to 1x4,F,14CM,3A/pin,22AWG,RoHS
<b>*Cable 6</b>	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
<b>*FAN 2</b>	FAN-0207L4	3	40x40x56 mm, 13K-11K RPM,Counter-rotating, Hot-swappable Fan
<b>*Drive Tray(s)</b>	MCP-220-00137-0N	1	Dual 2.5 HDD bracket (bracket base follow std 2.5
<b>*Rear Window</b>	MCP-240-51505-0N	1	Rear window for SC515M Redundant PWS chassis
<b>*Parts</b>	MCP-260-00078-0B	1	1U I/O shield for X11 Server MB with 5X5mm vent hole and EMI Gasket, Black
<b>*Front Panel</b>	MCP-280-80901-0N	1	SC809 FRONT CONTROL PANEL ASSY
<b>*Rail Set</b>	MCP-290-00102-0N	1set	Outer rail, quick-release type, 25.6" to 33.05"
<b>*Rail Set</b>	MCP-290-00108-0B	1 set	Inner rail, front, short (quick) for 1U 17.2
<b>*Fan Holder</b>	MCP-320-51501-0N	2	1U hot-swap 4056 dummy fan tray for SC515M (no venting hole)
<b>*Fan Holder</b>	MCP-320-51502-0N	1	1U hot-swap 4056 fan tray for FAN-0207L4 in SC515M (with venting hole)

#### 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.