

IoT SuperServer SYS-110D-4C-FRDN8TP



Key Features

1. Intel® Xeon® Processor D-2712T, CPU TDP 65W
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

Form Factor	▪ 1U Rackmount
Model	▪ CSE-515M-R00NP2

Dimensions and Weight

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

Front Panel

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

Expansion Slots

PCI-Express (PCI-E)	▪ Slot 6: 1 PCIe PCI-E 4.0 x16 FHFL
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Drive Bays / Storage

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

System Cooling

Fans	▪ 5 Counter-rotating, Hot-swappable 40x40x56mm Fan(s)
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Power Supply

600W Redundant DC -48V Power Supplies with PMBus	
Total Output Power	▪ 600W : (-44) - (-65) Vdc
Dimension (W x H x L)	▪ 54.5 x 40 x 220 mm
+12V	▪ Max: 50A
5V SB	▪ Max: 3A / Min: 0A
Certification	

[[Test Report](#)]

Operating Environment

Product SKUs

- SYS-110D-4C-FRDN8TP**
 - SuperServer SYS-110D-4C-FRDN8TP (**Silver**)

Motherboard**Super X12SDV-4C-SPT8F****Processor**

- CPU**
 - Single FCBGA-2579
 - Intel® Xeon® Processor D-2700 Series
 - Support CPU TDP 65W

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

Notes:

- Parts with * are inside the chassis
- Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.