

# IoT SuperServer SYS-110D-20C-FRDN8TP



More details here

## Key Applications

Intel® QuickAssist Technology, Networking Application, Firewall, uCPE, Telecom Application,

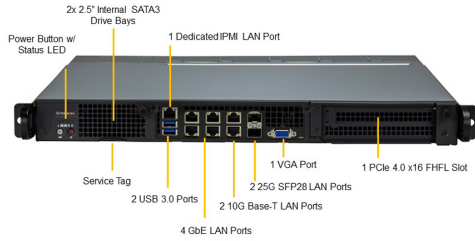
## Key Features

- Intel® Xeon® Processor D-2796NT, CPU TDP 120W;
- Up to 256GB Registered ECC RDIMM, DDR4-2933MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2933MHz, in 4 DIMM slots;
- 2x Internal 2.5" drive bays(2x PCIe 4.0 NVMe x8 SlimSAS and 1x OcuLink options);
- 4x GbE, 2x 25G SFP28 and 2x 10G Base-T;
- 1x M.2 M-Key 2242/2280 (SATA/PCIe 3.0 x4);
- 5x 40x56mm Hot-swap Counter-rotation PWM Fans;
- Redundant 600 W, -48 Vdc;



Form Factor	1U Rackmount Enclosure: 437 x 43 x 399mm (17.2" x 1.7" x 15.7") Package: 680 x 200 x 605mm (26.7" x 7.9" x 23.8")
Processor	Single FCBGA-2579 Intel® Xeon® Processor D-2700 Series
GPU	Max GPU Count: Up to 1 double-width or 1 single-width GPU(s) Supported GPU: NVIDIA PCIe: L4 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 4 DIMM slots Max Memory (1DPC): Up to 256GB/512GB 2933MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays	2x 2.5" SATA/PCIe drive bays 1 M.2 NVMe OR 1 M.2 SATA3 M-Key, 2242/2280
Expansion Slots	1 PCIe Gen 4 x16 FHFL slot(s)
On-Board Devices	Chipset: Intel® SoC Network Connectivity: 4x 1GbE BaseT with Intel® I350 2x 25GbE SFP28 with Intel® SOC 2x 10GbE BaseT with Intel® X550 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	LAN: 1 RJ45 Dedicated IPMI LAN port 4 RJ45 1Gbe Intel® I350 2 RJ45 10Gbe Intel® X550 2 SFP28 25GbE Intel® SOC Video: 1 VGA port(s)

(Front View – System)



(Rear View – System)



System Cooling	Fans: 5 Counter-rotating, Hot-swappable 40x40x56mm Fan(s)
Power Supply	600W Redundant Typical 90%+ Level power supplies
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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
Dimensions and Weight	Height: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 15.7" (399 mm) Gross Weight: 29 lbs (13.15 kg) Net Weight: 18 lbs (8.16 kg) Packaging: 7.9" (H) x 26.7" (W) x 23.8" (D) Available Color: Silver
Operating Environment	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)
Motherboard	<a href="#">Super X12SDV-20C-SPT8F</a>
Chassis	CSE-515M-R000NP2

## Parts List

### Standard Parts (Parts Included)

#### Motherboard / Chassis

Part Number	MBD-X12SDV-20C-SPT8F	CSE-515M-R000NP2
Qty	1	1
Description	Super X12SDV-20C-SPT8F Motherboard	1U Chassis

#### Cable

Part Number	CBL-0483L	CBL-OTHR-1214-24	CBL-PWCD-0974	CBL-0191L	CBL-PWCD-0160-IS
Qty	2	7	2	1	2
Description	7pin SATA (STR to STR), 29cm, PBF	FAN cbl,1x4,M, to 1x4,F,14CM,3A/pin,22AWG,RoHS	48VDC input power cable, 2M, 12AWG, 3 wires, RoHS/REACH,RoHS	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,50CM,PBF	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH

#### Fan

Part Number	FAN-0207L4
Qty	5
Description	40x40x56 mm, 13K-11K RPM,Counter-rotating, Hot-swappable Fan

#### Parts

Part Number	MCP-260-00099-0B	MCP-260-00078-0B
Qty	1	1
Description	1U Black I/O Shield for A2SDi-TP8F with EMI Gasket	1U I/O shield for X11 Server MB with 5X5mm vent hole and EMI Gasket, Black

#### Air Shroud

Part Number	MCP-310-51504-0B
Qty	1
Description	Mylar Air Shroud for SC515M + X11 SDW

#### Manual

Part Number	MNL-2541-QRG
Qty	1
Description	110D-4C/8C/16C/20C-FRA(D)N8TP Quick Reference Guide

#### Power Supply

Part Number	PWS-601D-1R
Qty	2
Description	-48V DC input, 12V and 5Vsb 600W output for 1U redundancy

#### Riser Card

Part Number	RSC-S-6G4
Qty	1
Description	1U LHS Standard riser card with one PCIe 4.0 x16 slot,HF,Ro

#### \*Power Distributor

Part Number	PDB-PT515M-2424
Qty	1
Description	1U support redundancy up to 800W for SC515M chassis with ATX

#### \*Drive Tray(s)

Part Number	MCP-220-00137-0N
Qty	1
Description	Dual 2.5 HDD bracket (bracket base follow std 2.5

#### \*Rear Window

Part Number	MCP-240-51505-0N
Qty	1
Description	Rear window for SC515M Redundant PWS chassis

#### \*Front Panel

Part Number	MCP-280-80901-0N
Qty	1
Description	SC809 FRONT CONTROL PANEL ASSY

#### \*Rail Set

Part Number	MCP-290-00102-0N	MCP-290-00108-0B
Qty	1set	1 set
Description	Outer rail, quick-release type, 25.6	Inner rail, front, short (quick) for 1U 17.2

#### \*Fan Holder

Part Number	MCP-320-51501-0N	MCP-320-51502-0N
Qty	2	1
Description	1U hot-swap 4056 dummy fan tray for SC515M (no venting hole)	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.

### Optional Parts List

#### SlimSAS x8 to PCIe 2x SFF-8639&PWR,G4,55CM,85OHM,Ro

Part Number	CBL-SAST-0953-1
Qty	1
Description	SlimSAS x8 to PCIe 2x SFF-8639&PWR,G4,55CM,85OHM,Ro