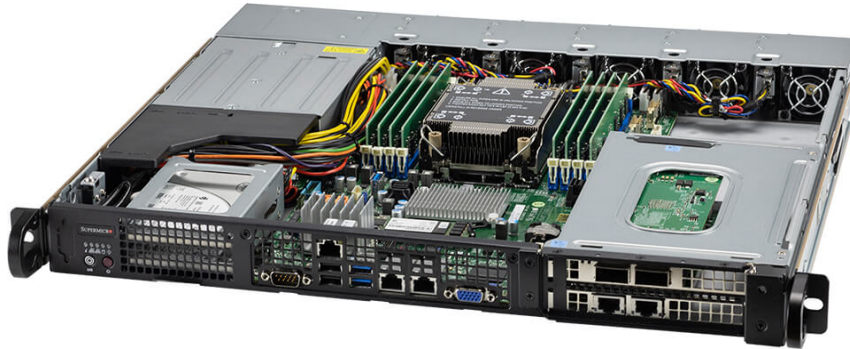


IoT SuperServer SYS-110P-FRDN2T

NEW

Key Applications

- Multi-Access Edge Computing
- Flex-RAN, Open-RAN vBBU
- Artificial Intelligence (AI) on Edge, Machine Learning (ML)

Key Features

1. Socket P+ (LGA-4189) support 3rd Gen Intel® Xeon® Scalable processors
2. 8x DIMMs; Up to 2TB 3DS ECC DDR4-3200: RDIMM/LRDIMM
3. 2x PCI-E Gen4 x16 FHFL slot
4. 2x 2.5" drive bays; 1x M.2 NVMe OR 1x M.2 SATA3
5. 5x hot-swappable counter rotated fans with optimal fan speed control
6. Redundant 600W DC Power Supplies
7. Front-access I/O: 2x 10GBase-T, 1x Dedicated IPMI, 2x USB3.0, 2x USB2.0, 1x COM, 1x VGA

Specifications

Chassis

Form Factor ■ 1U

Model ■ **CSE-515M-R601**

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 15.7" (399mm)

Package ■ 8" (H) x 27" (W) x 24" (D)

Weight ■ Gross Weight: 18 lbs (8.16 kg)

Available Color ■ Black

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 1: PCI-E 4.0 x16 FHFL
■ Slot 2: PCI-E 4.0 x16 FHFL

Drive Bays / Storage

Drive Bays ■ 2x 2.5" SATA drive bays

M.2 ■ 1 M.2 NVMe OR 1 M.2 SATA3
■ M-Key, 2280/22110

System Cooling

Fans ■ 5 heavy duty fans with optimal fan speed control

Air Shroud ■ 1 Air Shroud(s)

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-110P-FRDN2T** ■ SuperServer SYS-110P-FRDN2T (Black)

Motherboard

Super X12SPW-TF

Processor

- CPU**
- Single Socket P+ (LGA-4189)
 - 3rd Gen Intel® Xeon® Scalable processors
 - Support CPU TDP 85-205W

- Cores**
- Up to 32C/64T; Up to 48MB Cache

System Memory

- Memory**
- Memory Capacity: 8 DIMM slots
 - Up to 2TB: DRAM
 - Memory Type: 3200MHz ECC DDR4 RDIMM/LRDIMM

- Memory Voltage**
- 1.2 V

- Error Detection**
- ECC

On-Board Devices

- SATA**
- SATA3 (6Gbps); RAID 0/1 support

- Chipset**
- Intel® C621A

- Network Connectivity**
- 2x 10GbE BaseT 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

- 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-X12SPW-TF	1	Super X12SPW-TF Motherboard
	CSE-515M-R601	1	1U Chassis
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
Air Shroud	MCP-310-51507-0B	1	Mylar Air Shroud for SC515M + X11SPW/X12SPW
Riser Card	RSC-W-66G4	1	1U LHS WIO Riser card with two PCI-E 4.0 x16 slots,HF,RoHS
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0077V	1	X12 ICX/CPX CPU Heatsink (78x113x25.5mm), VC Base, Cu Fin
*Power Supply	PWS-601D-1R	2	-48V DC input, 12V and 5Vsb 600W output for 1U redundancy
*Power Distributor	PDB-PT515M-2424	1	1U support redundancy up to 800W for SC515M chassis with ATX

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.

Optional Parts List

	Part Number	Qty	Description
TPM security module	<u>AOM-TPM-9671V</u>	-	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
	<u>AOM-TPM-9670V</u>	-	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor