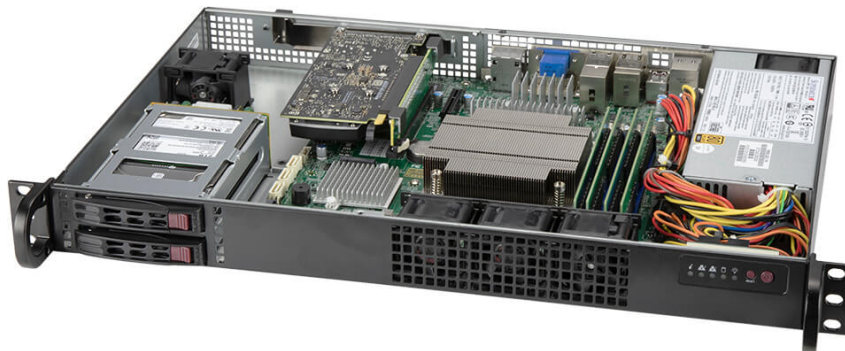# IoT SuperServer SYS-110C-FHN4T

Key Applications

- **Compact 1U Network Security**
- **Video Surveillance**
- **Office Server, DVR/NVR**
- **Digital Signage, POS**

Key Features

1. Single Socket LGA-1200 (Socket H5) support 10th Gen. Core™ I & Xeon W-1200 processors

2. 4x DIMMs; Up to 128GB Unbuffered ECC/non-ECC UDIMM

3. 1x PCI-E Gen3 x16 HHHL slot

4. 2 Hot-swap 2.5" SATA3 drive bays

5. 4x 40x28mm 4-pin PWM fans

6. 200W Low Noise AC-DC power supply with PFC

7. Rear-access I/O: 2x 10GBased-T, 2x GbE, 1x Dedicated IPMI, 4x USB3.0, 1x VGA, 1x DVI-D, 2x DP

Specifications

Product SKUs

SYS-110C-FHN4T	■ SuperServer SYS-110C-FHN4T (**Black**)

Motherboard

Super X12SCZ-TLN4F

Processor

CPU	■ Single Socket H5 (LGA-1200) ■ 10th Gen Intel® Core™ i9/i7/i5/i3, Intel® Xeon® W-1200 Processors ■ Support CPU TDP 35-80W
Cores	■ Up to 10C/20T; Up to 20MB Cache

System Memory

Memory	■ Memory Capacity: 4 DIMM slots ■ Up to 128GB: UDIMM ■ Memory Type: 2933MHz ECC DDR4 UDIMM
Memory Voltage	■ 1.2 V
Error Detection	■ ECC

On-Board Devices

SATA	■ SATA3 (6Gbps); RAID 0/1 support
Chipset	■ Intel® W480E
Network Connectivity	■ 2x 1GbE BaseT ■ 2x 10GbE BaseT
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

SATA	■ 2 SATA (6Gbps) port(s)
LAN	■ 1 RJ45 Dedicated IPMI LAN port ■ 2 RJ45 10GBase-T LAN ports ■ 2 RJ45 GbE LAN ports
USB	■ 4 USB 3.0 port(s) (4 rear)
Video	■ 1 VGA port(s)
DOM	■ 1 SuperDOM (Disk on Module) port

Management

Software	■ vPro ■ AMT ■ SUM ■ SuperDoctor® 5 ■ IPMI 2.0

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-510FT-203B

Dimensions and Weight

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 11.3" (287mm)
Package	■ 6.1" (H) x 25.4" (W) x 19.8" (D)
Weight	■ Net Weight: 10 lbs (4.54 kg) ■ Gross Weight: 14.1 lbs (6.4 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 3.0 x16 HHHL

Drive Bays / Storage

Drive Bays	■ 2x 2.5" SATA drive bays
M.2	■ 1 M.2 NVMe OR 1 M.2 SATA3 ■ M-Key / E-Key, 2280/22110 / 2230

System Cooling

Fans	■ 4x 4-PIN PWM 40x28mm Fan(s)

Power Supply

200W AC 100-240V Power Supplies

Dimension (W x H x L)	■ 76.5 x 40.3 x 192.8 mm
AC Input	■ 200W: 100-240Vac / 2.6A Max / 50-60Hz
+12V	■ Max: 16A / Min: 0A (100Vac-240Vac)
Certification	**Gold Level**

[Test Report]

Operating Environment

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 (41°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-X12SCZ-TLN4F	1	Super X12SCZ-TLN4F Motherboard
	CSE-510FT-203B	1	1U Chassis
Cable 1	CBL-0296L	1	9" 4 PIN FAN PWS EXTENSION CORD, PBF
FAN 1	FAN-0065L4	1	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Parts	MCP-150-00015-0B	1	Rubber pad, 3.0mm H, 10x10mm
Rear Window	MCP-240-00091-0N	2	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF
Parts	MCP-260-00101-0B	1	1U I/O Shield for X11SSZ on SC510 with EMI Gasket
Air Shroud	MCP-310-00097-0B	1	Air shroud for 4-DIMM size,HF,RoHS
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0049P	1	1U Passive Enhanced Performance CPU Heat Sink for Intel Socket H Series Processors
*Backplane	BPN-SAS-510T	1	2-port 1U (SC510T) direct-attached backplane, support up to 2x 2.5-inch SAS/SATA HDD/SSD
*Cable 2	CBL-0061L	2	31.5CM SATA FLAT S-S PBF
*Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

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.