

# IoT SuperServer SYS-510D-8C-FN6P



More details here

## Key Applications

Intel® QuickAssist Technology, Retail Application, Firewall, Gateway, uCPE,

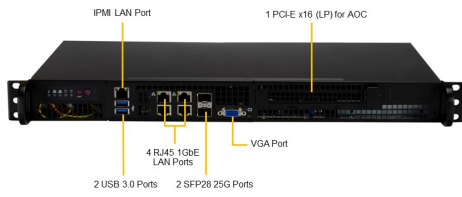
## Key Features

- Intel® Xeon® Processor D-1736NT, CPU TDP 67W;
- Up to 256GB Registered ECC RDIMM, DDR4-2933MHz, in 4 DIMM slots;
- 4x GbE and 2x 25G SFP28;
- 1x Internal 3.5" or 4x Internal 2.5" drive bays; 1x M.2 M-Key 2280 (SATA/PCIe 3.0 x4) 1x M.2 B-Key 2280/3042/3052 (USB/SATA/PCIe 3.0 x2) 1x M.2 E-Key 2230 (PCIe 3.0 x1);
- 3x 40x28mm 4-PIN PWM fans;
- 200W Low-noise AC-DC power supply;
- 1x VGA, 2 USB 3.0;



Form Factor	Mini-1U Rackmount Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8") Package: 655 x 155 x 465mm (25.8" x 6.1" x 18.3")
Processor	Single FCBGA-2227 Intel® Xeon® Processor D-1700 Series
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 256GB 2933MT/s ECC DDR4 RDIMM
Drive Bays	4x 2.5" SATA/PCIe drive bays 1 M.2 NVMe OR 2 M.2 SATA3 1xM-KEY,1xB-KEY,1xE-KEY, 2280/2230/3042/3052
Expansion Slots	1 PCIe Gen 4 x16 FHHL slot(s)
On-Board Devices	Chipset: Intel® SoC Network Connectivity: 2x 1GbE BaseT with Intel® i210 2x 25GbE SFP28 with Intel® SOC 2x 1GbE BaseT with Intel® i350-AM2 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 2 SFP28 25Gbe Intel® SOC 2 RJ45 1Gbe Intel® I350-AM2 2 RJ45 1Gbe Intel® I210-IT Video: 1 VGA port(s)

(Front View – System)



(Rear View – System)



System Cooling	Fans: 4x 4-PIN PWM 40x28mm Fan(s) (optional)
Power Supply	200W Gold Level power supply
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: 9.8" (249 mm) Gross Weight: 10 lbs (4.54 kg) Packaging: 6.1" (H) x 25.8" (W) x 18.3" (D) Available Color: Black
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-8C-SP6F</a>
Chassis	<a href="#">CSE-505-203B</a>

## Parts List

### Standard Parts (Parts Included)

#### Motherboard / Chassis

Part Number	MBD-X12SDV-8C-SP6F	CSE-505-203B
Qty	1	1
Description	Super X12SDV-8C-SP6F Motherboard	Mini-1U Chassis

#### Cable

Part Number	CBL-SAST-0538	CBL-0087	CBL-0260L
Qty	2	1	1
Description	7pin SATA (STR to RA),29cm,PBF	CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,50CM	US POWER CORD 18 AWG, PBF

#### Fan

Part Number	FAN-0065L4
Qty	3
Description	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M

#### Drive Tray(s)

Part Number	MCP-220-00051-0N
Qty	2
Description	Single 2.5

#### Rear Window

Part Number	MCP-240-00091-0N
Qty	2
Description	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF

#### Parts

Part Number	MCP-260-00100-0B	MCP-260-00064-0B	MCP-290-51001-0N
Qty	1	1	1
Description	1U I/O Shield	1U I/O shield for X9/X10 STD Server I/O use in SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF	SC510 card retainer

#### Fan Holder

Part Number	MCP-320-81302-0B
Qty	3
Description	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)

#### Manual

Part Number	MNL-2530-QRG
Qty	1
Description	510D-4C/8C/10C-FN6P Quick Reference Guide

#### 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 Supply

Part Number	PWS-203-1H
Qty	1
Description	1U 200W Multi-output 80Plus Gold PWS

#### \*Front Panel

Part Number	FPB-FP813-D
Qty	1
Description	Front control board dual color for SC815,SC813M (C)

#### 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

#### HDD Bracket

Part Number	MCP-220-00044-0N <a href="https://store.supermicro.com/mcp-220-00044-0n.html">Store (https://store.supermicro.com/mcp-220-00044-0n.html)</a>
Qty	-
Description	Dual 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U

#### Slimline to SATA cable

Part Number	CBL-SAST-1256-100
Qty	-
Description	Slimline X4 (RE) to 4x SATA,INT,56/46/56CM,SB 56CM,1