

IoT SuperServer SYS-510D-10C-FN6P



More details here

Key Applications

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

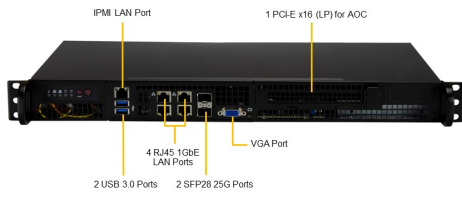
Key Features

- Intel® Xeon® Processor D-1747NTE, CPU TDP 80W;
- Up to 256GB Registered ECC RDIMM, DDR4-2933MHz, in 4 DIMM slots;
- 4x GbE and 2x 25G SFP28;
- 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); 1x Internal 3.5" or 4x Internal 2.5" drive bays;
- 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	Super X12SDV-10C-SP6F
Chassis	CSE-505-203B

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number	MBD-X12SDV-10C-SP6F	CSE-505-203B
Qty	1	1
Description	Super X12SDV-10C-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 Store (https://store.supermicro.com/mcp-220-00044-0n.html)
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