IoT SuperServer SYS-510D-10C-FN6P

Key Applications

 - **Intel® QuickAssist Technology**

Key Features

1. Intel® Xeon® Processor D-1747NTE, CPU TDP 80W

2. Up to 256GB Registered ECC RDIMM, DDR4-2933MHz, in 4 DIMM slots

3. 4x GbE and 2x 25G SFP28

4. 1x Internal 3.5" or 4x Internal 2.5" drive bays
   1x M.2 M-Key 2280 (SATA/PCI-E 3.0 x4) 1x M.2 B-Key 2280/3042/3052 (USB/SATA/PCI-E 3.0 x2) 1x M.2 E-Key 2230 (PCI-E 3.0 x1)

5. 3x 40x28mm 4-PIN PWM fans

6. 200W Low-noise AC-DC power supply

7. 1x VGA, 2 USB 3.0

Specifications

Product SKUs

SYS-510D-10C-FN6P	SuperServer SYS-510D-10C-FN6P (**Black**)

Motherboard

Super X12SDV-10C-SP6F

Processor

CPU	Single FCBGA-2227
	Intel® Xeon® Processor D-1700 Series
	Support CPU TDP 80W

System Memory

Memory	Memory Capacity: 4 DIMM slots
	Up to 256GB: ECC RDIMM
	Memory Type: 2933MHz ECC DDR4 RDIMM
Memory Voltage	1.2 V
Error Detection	ECC

On-Board Devices

Chipset	Intel® SoC
Network Connectivity	4x 1GbE GbE
	2x 25GbE SFP28
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

Chassis

Form Factor	1U Rackmount
Model	CSE-505-203B

Dimensions and Weight

Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	9.8" (249mm)
Package	6.1" (H) x 25.8" (W) x 18.3" (D)
Weight	Net Weight: 8 lbs (3.63 kg)
	Gross Weight: 12 lbs (5.44 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 6: 1 PCIe PCI-E 4.0 x16 FHHL

Drive Bays / Storage

Drive Bays	4x 2.5" SATA/PCIe drive bays
M.2	1 M.2 NVMe OR 2 M.2 SATA3 M,B,E, 2280/2230/3042/3052

System Cooling

Fans	4x 4-PIN PWM 40x28mm Fan(s) (optional)

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

Environmental Spec.	- Operating Temperature: 0°C ~ 45°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-X12SDV-10C-SP6F	1	Super X12SDV-10C-SP6F Motherboard
	CSE-505-203B	1	1U Chassis
Cable 1	CBL-SAST-0538	2	29cm 30AWG SATA S-RA Cable
FAN 1	FAN-0065L4	3	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Drive Tray(s)	MCP-220-00051-0N	2	Single 2.5
Rear Window	MCP-240-00091-0N	2	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF
Parts	MCP-260-00100-0B	1	1U I/O Shield
Fan Holder	MCP-320-81302-0B	3	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)
Manual	MNL-2294-QRG	1	5019D-RN8TP Quick Reference Guide
Riser Card	RSC-S-6G4	1	1U LHS Standard riser card with one PCI-E 4.0 x16 slot,HF,Ro
*Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS
*Cable 2	CBL-0087	1	CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,50CM
*Cable 3	CBL-0260L	1	US POWER CORD 18 AWG, PBF
*Front Panel	FPB-FP813-D	1	Front control board dual color for SC815,SC813M (C)
*Parts	MCP-260-00064-0B	1	1U I/O shield for X9/X10 STD Server I/O use in SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF
*Parts	MCP-290-51001-0N	1	SC510 card retainer

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.