

IoT SuperServer SYS-510D-8C-FN6P



Key Applications

- Intel® QuickAssist Technology

Key Features

1. Intel® Xeon® Processor D-1736NT, CPU TDP 67W
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-8C-FN6P	<ul style="list-style-type: none"> SuperServer SYS-510D-8C-FN6P (Black)
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Motherboard

Super X12SDV-8C-SP6F

Processor

CPU	<ul style="list-style-type: none"> Single FCBGA-2227 Intel® Xeon® Processor D-1700 Series Support CPU TDP 67W
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System Memory

Memory	<ul style="list-style-type: none"> Memory Capacity: 4 DIMM slots Up to 256GB: ECC RDIMM Memory Type: 2933MHz ECC DDR4 RDIMM
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> ECC

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® SoC
Network Connectivity	<ul style="list-style-type: none"> 4x 1GbE GbE 2x 25GbE SFP28
IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 1 VGA port(s)
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Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5 IPMI 2.0
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery

PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Temperature	<ul style="list-style-type: none"> CPU thermal trip support, PEPI Monitoring for CPU and chassis environment

Chassis

Form Factor	<ul style="list-style-type: none"> 1U Rackmount
Model	<ul style="list-style-type: none"> CSE-505-203B

Dimensions and Weight

Height	<ul style="list-style-type: none"> 1.7" (43mm)
Width	<ul style="list-style-type: none"> 17.2" (437mm)
Depth	<ul style="list-style-type: none"> 9.8" (249mm)
Package	<ul style="list-style-type: none"> 6.1" (H) x 25.8" (W) x 18.3" (D)
Weight	<ul style="list-style-type: none"> Net Weight: 8 lbs (3.63 kg) Gross Weight: 12 lbs (5.44 kg)
Available Color	<ul style="list-style-type: none"> Black

Front Panel

Buttons	<ul style="list-style-type: none"> Power On/Off UID button
LEDs	<ul style="list-style-type: none"> HDD activity LAN1 activity LAN2 activity Power status System information

Expansion Slots

PCI-Express (PCI-E)	<ul style="list-style-type: none"> Slot 6: 1 PCIe PCI-E 4.0 x16 FHHL
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Drive Bays / Storage

Drive Bays	<ul style="list-style-type: none"> 4x 2.5" SATA/PCIe drive bays
M.2	<ul style="list-style-type: none"> 1 M.2 NVMe OR 2 M.2 SATA3 M,B,E, 2280/2230/3042/3052

System Cooling

Fans	<ul style="list-style-type: none"> 4x 4-PIN PWM 40x28mm Fan(s) (optional)
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Power Supply

200W AC 100-240V Power Supplies	
Dimension (W x H x L)	<ul style="list-style-type: none"> 76.5 x 40.3 x 192.8 mm
AC Input	<ul style="list-style-type: none"> 200W: 100-240Vac / 2.6A Max / 50-60Hz
+12V	<ul style="list-style-type: none"> 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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12SDV-8C-SP6F	1	Super X12SDV-8C-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.