

SuperServer 1019D-FHN13TP



Integrated Board



Super X11SDW-8C-TP13F

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Key Features

- ❑ Multi-Access Edge Computing (MEC)
- ❑ Centralized/Cloud Radio Access Network (C-RAN)
- ❑ Universal Customer Premise Equipment (uCPE)
- ❑ Software Defined WAN (SD-WAN)
- ❑ Network Function Virtualization (NFV)
- ❑ Artificial Intelligence (AI)

1. Intel® Xeon® D-2146NT Processor, 8-Core, 16 Threads, 2.3 GHz, 80W

2. Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2133Mz; in 4 DIMM slots

3. 2 PCI-E 3.0 x16 (FHFL) slots

4. 2 Hot-swap 2.5" drive bays, 2 Internal 2.5" SSD bays

5. 3 M.2:
M-Key SATA/PCI-E 3.0 x4, 22110
E-Key PCI-E 3.0 x1, 2230
B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242

6. 9 GbE (1 port is used for management), 2x 10GbE, 2x 10G SFP+, and 1 Dedicated IPMI LAN ports

7. 2 USB 3.0, 1 VGA, 1 COM via RJ45

8. 350W AC-DC Multi-output Platinum Level Power Supply

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-1019D-FHN13TP	■ SuperServer 1019D-FHN13TP (Black)
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Motherboard

Super X11SDW-8C-TP13F

Processor

CPU	■ Intel® Xeon® processor D-2146NT, CPU TDP support 80W
Cores / Cache	■ 8 Cores, 16 Threads

System Memory

Memory Capacity	■ Up to 512GB DDR4 ECC LRDIMM ■ Up to 256GB DDR4 ECC RDIMM ■ 4 DIMM slots
Memory Type	■ 2666/2400/2133MHz ECC DDR4 L/RDIMM ■ Operating speed up to 2133MHz
DIMM Sizes	■ 128GB, 64GB, 32GB, 16GB
Memory Voltage	■ 1.2 V

On-Board Devices

Chipset	■ System on Chip (SoC)
SATA	■ SATA3 (6Gbps) ports via SoC controller
Network Controllers	■ Dual 10G SFP+ via SoC ■ Dual 10GBase-T via Intel X557 ■ 8x 1GbE with Intel I350-AM4 ■ Single 1GbE with Intel I210
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	■ VGA via Aspeed AST2500 BMC

Input / Output

SATA	■ 4 SATA3 (6Gbps) ports
LAN	■ 9 RJ45 Gigabit Ethernet LAN ports ■ 2 RJ45 10GbE LAN ports ■ 2 10G SFP+ LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 2 USB 3.0 ports (front)
Video	■ 1 VGA port
Serial Port / Header	■ 1 COM via RJ45

System BIOS

BIOS Type	■ 128Mb SPI Flash with AMI BIOS
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Management

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-513BTS-350WB

Dimensions and Weight

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 15" (381mm)
Package	■ 6.9" (H) x 19.5" (W) x 22.4" (D)
Weight	■ Gross Weight: 25 lbs (11.34 kg) ■ Net Weight: 14 lbs (6.35 kg)
Available Colors	■ Black

Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Information LED

Expansion Slots

PCI-Express	■ 2 PCI-E 3.0 x16 (FHFL) slots
M.2	■ 1 M.2 M-Key SATA/PCI-E 3.0 x4, 22110 ■ 1 M.2 E-Key PCI-E 3.0 x1, 2230 ■ 1 M.2 B-Key SATA/PCI-E 3.0 x2/USB 3.0, 2242

Drive Bays

Hot-swap	■ 2 Hot-swap 2.5" drive bays
Internal	■ 2 Internal 2.5" SSD bays

System Cooling

Fans	■ 4x 40x28mm PWM fans (up to 6)
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Power Supply

350W AC power supply w / PFC	
AC Voltage	■ 100-240 V, 50-60 Hz, 4.2-1.8 Amp
+5V	■ Max.: 15 Amp ■ Min.: 0.2 Amp
+5V standby	■ Max.: 3 Amp ■ Min.: 0 Amp
+12V	■ Max.: 29 Amp ■ Min.: 0.5 Amp
-12V	■ Max.: 0.2 Amp ■ Min.: 0 Amp
+3.3V	■ Max.: 12 Amp ■ Min.: 0.2 Amp

Certification



Platinum Level Certified
[[Test Report](#)]

Software

- Intel® Node Manager
 - IPMI 2.0
 - NMI
 - SUM
 - Watch Dog
 - SuperDoctor® 5
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Operating Environment / Compliance

RoHS

- RoHS Compliant
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Environmental Spec.

- Operating Temperature:
0°C to 45°C (32°F to 113°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-X11SDW-8C-TP13F	1	Super X11SDW-8C-TP13F Motherboard
	CSE-513BTS-350WB	1	1U Chassis
Backplane	BPB-SAS3-826TQ-B2B	1	2-port 2U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
Cable 2	CBL-CDAT-0662	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
Cable 3	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
Parts	MCP-260-00144-0B	1	1U I/O Shield for X11SDW with EMI Gasket, Black
Air Shroud	MCP-310-51303-0B	1	Mylar Air shroud for SC513B + UP MB X11SDW
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
* Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
* Cable 4	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
* Cable 5	CBL-0335L	1	CBL,FRONT CNTL,20 TO 20 PIN,RA,RND TUBE,73CM,28AWG
* FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
* Drive Tray(s)	MCP-220-00180-0B	2	2.5" New ID gen 3 hot-sw ap HDD tray with lock feature (with plastic bracket)
* Parts	MCP-260-00078-0B	1	1U I/O shield for X11 Server MB with 5X5mm vent hole and EMI Gasket, Black
* Front Panel	MCP-280-80901-0N	1	SC809 FRONT CONTROL PANEL ASSY
* Rail Set	MCP-290-00102-0N	1 set	Outer rail, quick-release type, 25.6" to 33.05"
* Rail Set	MCP-290-00108-0B	1 set	Inner rail, front, short (quick) for 1U 17.2
* Fan Holder	MCP-320-00060-0N	1	Fan tray for six 40x28 fans in SC813M (for X11DPL-i 12"x10.15")
* Parts	MCP-340-00001-01	2	Dummy fan 40x28mm

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

	Part Number	Qty	Description
Rack Bracket	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N