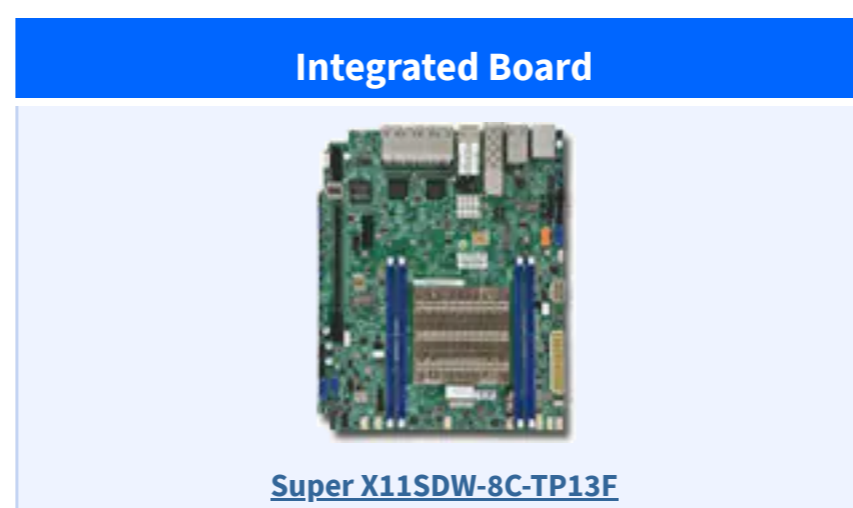


# SuperServer 1019D-FHN13TP



Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |



## Key Applications

- 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)

## Key Features

- Intel® Xeon® D-2146NT Processor, 8-Core, 16 Threads, 2.3 GHz, 80W
- Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2133Mz; in 4 DIMM slots
- 2 PCI-E 3.0 x16 (FHFL) slots
- 2 Hot-swap 2.5" drive bays, 2 Internal 2.5" SSD bays
- 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
- 9 GbE (1 port is used for management), 2x 10GbE, 2x 10G SFP+, and 1 Dedicated IPMI LAN ports
- 2 USB 3.0, 1 VGA, 1 COM via RJ45
- 350W AC-DC Multi-output Platinum Level Power Supply

- [Drivers & Utilities](#)
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- [Tested Memory](#)
- [Tested M.2 List](#)
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- [OS Certification Matrix](#)

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

## Specifications

Product SKUs	
<b>SYS-1019D-FHN13TP</b>	SuperServer 1019D-FHN13TP (Black)
Motherboard	
<b>Super X11SDW-8C-TP13F</b>	
Processor	
<b>CPU</b>	Intel® Xeon® processor D-2146NT, CPU TDP support 80W
<b>Cores / Cache</b>	8 Cores, 16 Threads
System Memory	
<b>Memory Capacity</b>	Up to 512GB DDR4 ECC LRDIMM Up to 256GB DDR4 ECC RDIMM 4 DIMM slots
<b>Memory Type</b>	2666/2400/2133MHz ECC DDR4 L/RDIMM Operating speed up to 2133MHz
<b>DIMM Sizes</b>	128GB, 64GB, 32GB, 16GB
<b>Memory Voltage</b>	1.2 V
On-Board Devices	
<b>Chipset</b>	System on Chip (SoC)
<b>SATA</b>	SATA3 (6Gbps) ports via SoC controller
<b>Network Controllers</b>	Dual 10G SFP+ via SoC Dual 10GBase-T via Intel X557 8x 1GbE with Intel I350-AM4 Single 1GbE with Intel I210
<b>IPMI</b>	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Video</b>	VGA via Aspeed AST2500 BMC
Input / Output	
<b>SATA</b>	4 SATA3 (6Gbps) ports
<b>LAN</b>	9 RJ45 Gigabit Ethernet LAN ports 2 RJ45 10GbE LAN ports 2 10G SFP+ LAN ports 1 RJ45 Dedicated IPMI LAN port
<b>USB</b>	2 USB 3.0 ports (front)
<b>Video</b>	1 VGA port
<b>Serial Port / Header</b>	1 COM via RJ45
System BIOS	
<b>BIOS Type</b>	128Mb SPI Flash with AMI BIOS
Management	
<b>Software</b>	Intel® Node Manager <a href="#">IPMI 2.0</a> NMI <a href="#">SUM</a> Watch Dog <a href="#">SuperDoctor® 5</a>

Chassis	
<b>Form Factor</b>	1U Rackmount
<b>Model</b>	<b>CSE-513BTS-350WB</b>
Dimensions and Weight	
<b>Height</b>	1.7" (43mm)
<b>Width</b>	17.2" (437mm)
<b>Depth</b>	15" (381mm)
<b>Package</b>	6.9" (H) x 19.5" (W) x 22.4" (D)
<b>Weight</b>	Gross Weight: 25 lbs (11.34 kg) Net Weight: 14 lbs (6.35 kg)
<b>Available Colors</b>	Black
Front Panel	
<b>Buttons</b>	Power On/Off button System Reset button
<b>LEDs</b>	Power LED Hard drive activity LED Network activity LEDs System Information LED
Expansion Slots	
<b>PCI-Express</b>	2 PCI-E 3.0 x16 (FHFL) slots
<b>M.2</b>	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	
<b>Hot-swap</b>	2 Hot-swap 2.5" drive bays
<b>Internal</b>	2 Internal 2.5" SSD bays (optional)
System Cooling	
<b>Fans</b>	4x 40x28mm PWM fans (up to 6)
Power Supply	
350W AC power supply w/ PFC	
<b>AC Voltage</b>	100-240 V, 50-60 Hz, 5.0-2.5 Amp
<b>+5V</b>	Max.: 15 Amp Min.: 0.2 Amp
<b>+5V standby</b>	Max.: 3 Amp Min.: 0 Amp
<b>+12V</b>	Max.: 29 Amp Min.: 0.5 Amp
<b>-12V</b>	Max.: 0.2 Amp Min.: 0 Amp
<b>+3.3V</b>	Max.: 12 Amp Min.: 0.2 Amp
<b>Certification</b>	<b>Platinum Level Certified</b> <a href="#">[ Test Report ]</a>
Operating Environment / Compliance	
<b>RoHS</b>	RoHS Compliant
<b>Environmental Spec.</b>	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)

## Parts List

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

### Notes:

- Parts with \* are inside the chassis
- 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
<b>Rack Bracket</b>	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N
<b>HDD Bracket</b>	MCP-220-00137-0N	-	Dual 2.5 HDD bracket (bracket base follow std 2.5" HDD screw holes)
<b>Cable</b>	CBL-0082L	-	Y SPLIT SATA POWER ADAPTER, PB FREE
<b>Cable</b>	CBL-0473L	-	21CM 30AWG SATA CBL, S-S

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