

SuperServer 1019D-FHN13TP



Integrated Board



[./products/motherboard/Xeon/D/X11SDW-8C-](https://products/motherboard/Xeon/D/X11SDW-8C-TP13F.cfm)

[TP13F.cfm](https://products/motherboard/Xeon/D/X11SDW-8C-TP13F.cfm)

Super X11SDW-8C-TP13F ([./products/motherboard/Xeon/D/X11SDW-8C-TP13F.cfm](https://products/motherboard/Xeon/D/X11SDW-8C-TP13F.cfm))

Views: | **Angled View** (/a_images/products/views/1019D-FHN13TP_angle.jpg) | **Top View** (/a_images/products/views/1019D-FHN13TP_top.jpg) |

Front View (/a_images/products/views/1019D-FHN13TP_front.jpg) | **Rear View** (/a_images/products/views/1019D-FHN13TP_rear.jpg) |

[Drivers & Utilities](#) **[BIOS](#)** **[IPMI](#)** **[Tested Memory](#)**

[Tested M.2 List](#) (</en/support/resources/m2ssd?SystemID=86750&ProductName=SS1019D-FHN13TP>)

[Drive Options](#) **[Manuals](#)** **[Quick-References Guide](#)**

[OS Certification Matrix](#)
(/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D1019D%2DFHN13TP)

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

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 DDR4-2133Mhz; 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**)

Motherboard

Super X11SDW-8C-TP13F
[\(/products/motherboard/Xeon/D/X11SDW-8C-TP13F.cfm\)](/products/motherboard/Xeon/D/X11SDW-8C-TP13F.cfm)

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

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 (optional)

System Cooling

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

Power Supply

350W AC power supply w/ PFC
AC Voltage
100-240 V, 50-60 Hz, 5.0-2.5 Amp
+5V
Max.: 15 Amp
Min.: 0.2 Amp
+5V standby
Max.: 3 Amp
Min.: 0 Amp

System BIOS

BIOS Type

128Mb SPI Flash with AMI BIOS

Management

Software

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](#)

NMI

[SUM \(/solutions/SMS_SUM.cfm\)](#)

Watch Dog

[SuperDoctor® 5 \(/products/nfo/SMS_SD5.cfm\)](#)

+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



(<http://www.pluginloadsolutions.com/80PlusPowerSupply?id=69&type=2>). **Platinum Level Certified**

[[Test Report \(/products/powersupply/80PLUS/80PLU1H.pdf\)](#)]

Operating Environment / Compliance

RoHS

RoHS Compliant

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:

Parts List

[Global SKU \(/en/products/SMC_global_skus\)](#)