

SuperServer 5019D-FN8TP



Integrated Board



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X11SDV-8C-TP8F ([./products/motherboard/Xeon/D/X11SDV-8C-TP8F.cfm](#))
Views: | **Angled View** ([./a_images/products/views/5019D-FN8TP_angle.jpg](#)) | **Front View** ([./a_images/products/views/5019D-FN8TP_front.jpg](#)) | **Rear View** ([./a_images/products/views/5019D-FN8TP_rear.jpg](#)) |

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[Tested M.2 List](#) ([./zh_tw/support/resources/m2ssd?SystemID=86379&ProductName=SS5019D-FN8TP](#))
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[Drive Options](#)



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Key Applications / Features

- Network Security Appliance
- Universal Customer Premise Equipment (uCPE)
- Software Defined WAN (SD-WAN)
- NFV Edge Computing Server
- Virtualization Server
- IoT Edge Computing / Gateway

1. Intel® Xeon® processor D-2146NT, 8-Core, 16 Threads, 80W
2. 1 Internal 3.5" or 4 Internal 2.5" drive bays
3. 1 M.2 slot M key for SSD, 2242/80, 1 M.2 B Key for SSD/ WAN card, 1 Mini-PCI-E with mSATA Support, 1 PCI-E 3.0 x8 slot
4. Up to 512GB ECC LRDIMM, up to 256GB ECC RDIMM DDR4-2666Mz; in 4 DIMM slots
5. 4x 1GbE, 2x 10GBase-T, 2x 10G SFP+ and 1 dedicated LAN for IPMI 2.0
6. 1 VGA, 2 USB 3.0
7. 3x 40x28mm 4-PIN PWM fans
8. 200W Low-noise AC-DC power supply
9. Built in Intel QAT up to 40Gbps Crypto/Compression

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

Specifications

Product SKUs

SYS-5019D-FN8TP
SuperServer 5019D-FN8TP (**Black**)

Motherboard

Super X11SDV-8C-TP8F
[\(/products/motherboard/Xeon/D/X11SDV-8C-TP8F.cfm\)](/products/motherboard/Xeon/D/X11SDV-8C-TP8F.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 ECC LRDIMM and ECC RDIMM
DIMM Sizes
128GB, 64GB, 32GB, 16GB
Memory Voltage
1.2 V
Error Detection
Corrects single-bit errors
Detects double-bit errors
(using ECC memory)

On-Board Devices

SATA
SATA3 (6Gbps) ports via SoC controller
Network Controllers
Dual 10G SFP+ via SoC
Quad 1GbE with Intel I350-AM4
Dual 10GBase-T with Intel X557
IPMI
Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics
Aspeed AST2500 BMC

Input / Output

SATA
4 SATA3 (6Gbps) ports (SATA/SAS HDD/SSD)
LAN
2 10G SFP+ ports
4 RJ45 1GbE LAN ports
2 RJ45 10GBase-T LAN ports
1 RJ45 Dedicated IPMI LAN port
USB
2 USB 3.0 ports (rear)
VGA
1 VGA port
Others
TPM 2.0 header

Chassis

Form Factor
1U Rackmount
Model
CSE-505-203B (/products/chassis/1u/505/sc505-203.cfm)

Dimensions and Weight

Height
1.7" (43mm) / 6.1" (155mm) - pkg.
Width
17.2" (437mm) / 25.8" (655mm) - pkg.
Depth
9.8" (249mm) / 18.3" (465mm) - pkg.
Weight
Net Weight: 8 lbs (3.63 kg)
Gross Weight: 12 lbs (5.44 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
Information LED (temp., status)

Expansion Slots

PCI-E
1 PCI-E 3.0 x8 slot
1 Mini-PCI-E with mSATA Support
M.2
1 M.2 slot M key for SSD, 2242/8
1 M.2 B Key for SSD/ WAN card

Drive Bays

Internal
1 Internal 3.5" or 4 Internal 2.5" drive bays

System Cooling

Fans
3x 40x28mm 4-PIN PWM fans

Power Supply

200W Low Noise AC-DC power supply with PFC
AC Voltage
100 - 240V, 50-60Hz, 2.6 Amp Max
+5V
8.0 Amp (max.)
+5V standby
2.0 Amp (max.)
+12V
16 Amp (max.)
-12V
0.5 Amp (max.)
+3.3V
8.0 Amp (max.)

Certification



(<http://www.plugloadsolutions.com/80PlusPowerSuppliesid=69&type=2>).

Gold Certified

System BIOS

BIOS Type

128Mb SPI Flash with AMI BIOS

BIOS Features

- PCI 3.0
- ACPI 5.0
- USB Keyboard support
- Hardware BIOS Virus protection
- SMBIOS 2.8
- UEFI 2.4
- RTC (Real Time Clock) Wakeup

Operating Environment / Compliance

RoHS

RoHS Compliant

Environmental Spec.

- Operating Temperature:
 - 0°C to 40°C (32°F to 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

Global SKU (/zh_tw/products/SMC_global_skus)