

SuperServer 5019D-FN8TP

Print



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.

► Drivers & Utilities Drive Options

► BIOS

► IPMI

► Tested Memory

► Tested M.2 List

► Manuals

► OS Certification Matrix

►

Specifications ^

Product SKUs	
SYS-5019D-FN8TP	SuperServer 5019D-FN8TP (Black)
Motherboard	
Super X11SDV-8C-TP8F	
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 v2.0 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
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	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 ^

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDV-8C-TP8F	1	Super X11SDV-8C-TP8F Motherboard
	CSE-505-203B	1	1U Chassis
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-SAST-0538	2	SATA,INT,ROUND,ST-RA,29CM,30AWG
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)
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS
Air Shroud	MCP-310-50503-0B	1	Mylar air shroud for SC504/505 with X11SDV-16C-TP,RoHS/REACH
Optional Parts List			
	Part Number	Qty	Description
HDD Bracket	MCP-220-00044-0N	-	Retention Bracket for up to 2x 2.5" HDD
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]

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