

# SuperServer 1019D-FRN5TP



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



## Key Applications

Centralized/Cloud Radio Access Network (C-RAN)  
 Universal Customer Premise Equipment (uCPE)  
 Software Defined WAN (SD-WAN)  
 Network Function Virtualization (NFV)

## 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 DDR4-2133Mz; in 4 DIMM slots
3. 4 PCI-E 3.0 x8 slots for optional AIOM
4. 2x 2.5" drive bays (one drive space shares with M.2), 2 E1.S (40°C ambient temperature only)
5. M.2 Slots:
  - 2 M-Keys 2242/80/110 (PCI-E 3.0 x4/SATA) (space shared with one 2.5" drive bay),
  - 1 B-Key 3042 (PCI-E 3.0 x4/SATA)
  - 1 E-Key 2230 (PCI-E 3.0 x2)
6. 2x 10GbE (shared with IPMI), 2x 10G SFP+, 1 Ethernet Management port
7. 2 USB 3.0, 1 VGA, 1 COM via RJ45 or Micro USB
8. 400W Redundant Platinum Level Power Supplies

- [Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Tested M.2 List](#) | [Drive Options](#) | [Manuals](#) | [Quick-References Guide](#) | [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

**SYS-1019D-FRN5TP** SuperServer 1019D-FRN5TP (Black)

### Motherboard

**Super X11SDS-8C**

### 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 (share with IPMI)

**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 BMC

### Input / Output

**SATA** 2 SATA3 (6Gbps) ports

**LAN** 2 RJ45 10GbE LAN ports (shared with IPMI)  
 2 10G SFP+ LAN ports  
 1 Ethernet Management port

**USB** 2 USB 3.0 ports (front)

**Video** 1 VGA port

**Serial Port / Header** 1 COM via RJ45 or Micro USB

### System BIOS

**BIOS Type** 128Mb SPI Flash with AMI BIOS

### Management

**Software** Intel® Node Manager  
[IPMI 2.0](#)  
 NMI  
[SUM](#)  
 Watch Dog  
[SuperDoctor® 5](#)

### Chassis

**Form Factor** 1U Rackmount

**Model** CSE-103-R407B

### 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: 26.9 lbs (12.2 kg)  
 Net Weight: 15.9 lbs (7.21 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** 4 PCI-E 3.0 x8 slots for AIOM (AIOM is sold separately, it is not included in this standard/barebone system)

**M.2** 2 M-Keys 2242/80/110 (PCI-E 3.0 x4/SATA) (space share with one 2.5" drive bay)  
 1 B-Key 3042 (PCI-E 3.0 x4/SATA)  
 1 E-Key 2230 (PCI-E 3.0 x2)

### Drive Bays

**Internal** 2x 2.5" drive bays (one drive space shares with M.2)

**Others** 2 E1.S (40°C ambient temperature only)

### System Cooling

**Fans** 5x 40x40x56 mm 13K-11K RPM Counter-rotating Fans

### AC/DC240V Input Redundant Power Supplies

400W 1U Redundant Power Supplies with PMBus

**Total Output Power** 400W

**Dimension (W x H x L)** 54.5 x 40 x 220 mm

**Input** 100 - 240Vac / 6.0 - 3.0A / 50-60Hz  
 200 - 240Vdc / 3.4 - 3.2A (CCC Only)

**+12V** Max: 33A / Min: 0.5A

**+5V sb** Max: 3A / Min: 0A

**Output Type** Gold Finger Connector Mating with Molex 45984-4343

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

### 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: 5% to 95% (non-condensing)

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11SDS-8C	1	Super X11SDS-8C Motherboard
	CSE-103-R407B	1	1U Chassis
<b>Add-on Card / Module</b>	AOM-SMF-TP4F-P	1	I/O Module for X11SDS, 2x SFP+, 2x 10G RJ45, 1x 1G RJ45, 1x RJ45 Console (mux micro-USB), 2x USB3.0, PDB,RoHS
<b>Cable 1</b>	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Cable 2</b>	CBL-0212L	1	4 PIN POWER CABLE FOR SC808 S809, S-RA, 20CM, 20AWG
<b>Cable 3</b>	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
<b>Cable 4</b>	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
<b>Manual</b>	MNL-2192	1	1019D-(12C/14C/16C-)FRN5TP User's Manual
<b>* Power Supply</b>	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH

#### 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
<b>AIOM</b>	AOC-AG-i8	-	AIOM 8-port GbE RJ45, 2x Intel i350-AM4,RoHS
<b>AIOM</b>	AOC-AG-i4S	-	AIOM 4-port GbE SFP, Intel i350-AM4,RoHS
<b>AIOM</b>	AOC-ATG-I2T-P	-	AIOM 2-port 10GBase-T, Intel X550,RoHS
<b>AIOM</b>	AOC-A25G-B2S-P	-	AIOM 2-port 25GbE SFP28, Broadcom BCM57414,RoHS
<b>E1.S (EDSFF Short)</b>	HDS-IEN0-SSDPEYKX040T8	-	Intel DC P4511 EDSFF E1.S TLC 5.9mm 4TB
<b>E1.S Tray</b>	MCP-220-12105-0N	-	SC121EF EDSFF-S cage (36mm height x9.5mm W)
<b>E1.S Air Shroud</b>	MCP-310-10302-0B	-	Mylar Air Shroud for SC103 (X11SDS), for EDSFF
<b>Rack Bracket</b>	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N

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