

SuperServer 1019D-FRN5TP



Integrated Board



Super X11SDS-8C

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

**[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) ▶
[Manuals](#) | [▶ OS Certification Matrix](#)**

Coming Soon

Key Features

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

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 (35°C ambient temperature only)

5. 2 M.2 M-Key: 2280/22110 (space share with one 2.5" drive bay), 1 M.2 E-Key: 2230, 1 M.2 B-Key: 3042

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

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)
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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
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Management

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.2 M-Key 2280/22110 (space share with one 2.5" drive bay) ■ 1 M.2 E-Key 2230 ■ 1 M.2 B-Key 3042

Drive Bays

Hot-swap	■ 2x 2.5" drive bays (one drive space shares with M.2)
Others	■ 2 E1.S (35°C ambient temperature only)

System Cooling

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

- Software**
- Intel® Node Manager
 - IPMI 2.0
 - NMI
 - SUM
 - Watch Dog
 - SuperDoctor® 5
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Certification



Platinum Level Certified
[Test Report]

Operating Environment / Compliance

RoHS

- RoHS Compliant
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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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDS-8C	1	Super X11SDS-8C Motherboard
	CSE-103-R407B	1	1U Chassis
Add-on Card / Module	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
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0212L	1	4 PIN POWER CABLE FOR SC808 S809, S-RA, 20CM, 20AWG
Cable 3	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
Cable 4	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w /Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
Manual	MNL-2192	1	1019D-(12C/14C/16C-)FRN5TP User's Manual
* Power Supply	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
AIOM	AOC-AG-i8	-	AIOM 8-port GbE RJ45, 2x Intel i350-AM4,RoHS
AIOM	AOC-AG-i4S	-	AIOM 4-port GbE SFP, Intel i350-AM4,RoHS
Rack Bracket	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N