

SuperServer 1019D-12C-FRN5TP



Integrated Board



Super X11SDS-12C

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

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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-2163IT Processor, 12-Core, 24 Threads, 2.1 GHz, 75W

2. Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2133Mhz; 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 (30°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-12C-FRN5TP** ■ SuperServer 1019D-12C-FRN5TP (**Black**)

Motherboard

Super X11SDS-12C

Processor

- **CPU** ■ Intel® Xeon® processor D-2163IT, CPU TDP support 75W
- **Cores / Cache** ■ 12 Cores, 24 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 (option)

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.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 (30°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
Motherboard / Chassis	MBD-X11SDS-12C	1	Super X11SDS-12C 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
* 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
AIOM	AOC-ATG-I2T-P	-	AIOM 2-port 10GBase-T, Intel X550,RoHS
AIOM	AOC-A25G-B2S-P	-	AIOM 2-port 25GbE SFP28, Broadcom BCM57414,RoHS
Rack Bracket	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N