

SuperServer 1019D-14C-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-2173IT Processor, 14-Core, 28 Threads, 1.7 GHz, 70W
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](#)

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-14C-FRN5TP	SuperServer 1019D-14C-FRN5TP (Black)
Motherboard	
Super X11SDS-14C	
Processor	
CPU	Intel® Xeon® processor D-2173IT, CPU TDP support 70W
Cores / Cache	14 Cores, 28 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	1.2V
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-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
Motherboard / Chassis	MBD-X11SDS-14C	1	Super X11SDS-14C 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
E1.S (EDSFF Short)	HDS-IEN0-SSDPEYKX040T8	-	Intel DC P4511 EDSFF E1.S TLC 5.9mm 4TB
E1.S Tray	MCP-220-12105-0N	-	SC121EF EDSFF-S cage (36mm height x9.5mm W)
E1.S Air Shroud	MCP-310-10302-0B	-	Mylar Air Shroud for SC103 (X11SDS), for EDSFF
Rack Bracket	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N

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