

# SuperServer 1018D-FRN8T



## Integrated Board



## X10SDV-7TP8F

### Available Colors:

Silver



[▶ Drivers & Utilities](#) [▶ BIOS](#) [▶ IPMI](#) [▶ Tested Memory](#) [▶ Tested M.2 List](#) [▶ Manuals](#) [▶ OS Certification Matrix](#) [▶ Drive Options](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

## Key Features

- Network Security Appliance
- Firewall Applications
- Virtualization
- SD-WAN, vCPE
- 7 year life cycle

1. Intel® Xeon® processor D-1587, Single socket FCBGA 1667; 16-Core, 32 Threads, 65W
2. 4x 2.5" drive bays
3. 1x PCIe 3.0 x8 slot (FH, FL), M.2 PCIe 3.0 x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support
4. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
5. Dual 10G SFP+ and Six 1GbE LAN
6. I/O: 2x USB 3.0, VGA
7. 4x 40x56mm cooling fans, up to 13K RPM
8. DOM power connector
9. 400W redundant power supplies  
**Platinum Level Certified**

# Specifications

## Product SKUs

- SYS-1018D-FRN8T** ■ SuperServer 1018D-FRN8T (**Silver**)

## Motherboard

### Super X10SDV-7TP8F

## Processor/Cache

- CPU** ■ Intel® Xeon® processor D-1587, 1.7GHz-2.3GHz, CPU TDP support 65W
  - FCBGA 1667

- Cores / Cache** ■ 16 Cores, 32 Threads / 24MB

## System Memory

- Memory Capacity** ■ 4x DDR4 DIMM sockets
  - Supports up to 128GB DDR4 ECC RDIMM
  - Supports up to 64GB DDR4 ECC/non-ECC UDIMM

- Memory Type** ■ 2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM

- DIMM Sizes** ■ 32GB, 16GB, 8GB, 4GB

- Memory Voltage** ■ 1.2 V

- Error Detection** ■ Corrects single-bit errors
  - Detects double-bit errors (using ECC memory)

## On-Board Devices

- SATA** ■ SoC controller for SATA3 (6Gbps) ports

- Network Controllers** ■ Dual 10G SFP+ from D-1500 SoC
  - Quad 1GbE with Intel I350-AM4
  - Dual 1GbE with Intel I210

- IPMI** ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
  - Dedicated RJ45 IPMI LAN port

- Graphics** ■ BMC integrated ASPEED AST2400

## Input / Output

- SATA** ■ 4x SATA3 (6Gbps) ports

- LAN** ■ 2x 10G SFP+ ports
  - 6x RJ45 Gigabit Ethernet LAN ports
  - 1x RJ45 Dedicated IPMI LAN port

- USB** ■ 2x USB 3.0 ports (rear)

- DOM** ■ 1x SATA DOM (Disk on Module) power connector

- VGA** ■ 1x VGA Port

- Others** ■ TPM 1.2 header

## Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-515-R407**

## Dimensions and Weight

- Height** ■ 1.7" (43mm)

- Width** ■ 17.2" (437mm)

- Depth** ■ 16.9" (429mm)

- Weight** ■ Net Weight: 8 lbs (3.63 kg)
  - Gross Weight: 12 lbs (5.44 kg)

- Available Colors** ■ Silver

## Front Panel

- Buttons** ■ Power On/Off button
  - System Reset button

- LEDs** ■ Power LED
  - Hard drive activity LED
  - 2x Network activity LEDs
  - System Information LED
  - Information LED (temp., status)

## Expansion Slots

- PCI-E** ■ 1x PCIe 3.0 x8 slots
  - M.2 PCIe 3.0 x4, M Key 2242/2280/22110
  - Mini-PCIe with mSATA support

## Drive Bays

- HDD** ■ 4x 2.5" fixed drive bays

## System Cooling

- Fans** ■ Passive Heatsink, 40mm chassis fan

## 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](#) ]

## System BIOS

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

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<b>BIOS Features</b>	<ul style="list-style-type: none"><li>■ PCI 3.0</li><li>■ ACPI 5.0</li><li>■ USB Keyboard support</li><li>■ Hardware BIOS Virus protection</li><li>■ SMBIOS 2.8</li><li>■ UEFI 2.4</li><li>■ RTC (Real Time Clock) Wakeup</li></ul>
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#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"><li>■ RoHS Compliant</li></ul>
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<b>Environmental Spec.</b>	<ul style="list-style-type: none"><li>■ Operating Temperature: 0°C to 40°C (32°F to 104°F)</li><li>■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li><li>■ Operating Relative Humidity: 8% to 90% (non-condensing)</li><li>■ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li></ul>
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# Parts List

## Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10SDV-7TP8F	1	Super X10SDV-7TP8F Motherboard
	CSE-515-R407	1	1U Chassis
<b>Air Shroud</b>	MCP-310-51502-0B	1	Mylar airshroud for SC515 w ith X10SDV
<b>Cable 1</b>	CBL-0082L	2	Y split , big 4 pin to tw o RA SATA pow er extension 15cm, 18AWG
<b>Cable 2</b>	CBL-0228L	2	SATA,INT,ROUND,ST-RA,55CM,26AWG
<b>Cable 3</b>	CBL-0296L	4	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
<b>Cable 4</b>	CBL-0234L	1	4-PIN POWER SUPPLY Y-CABLE FOR HDD, 15CM, 20AWG
<b>Parts</b>	MCP-260-00099-0N	1	1U I/O Shield for A2SDi-TP8F w ith EMI Gasket
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Power Supply</b>	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy pow er supply meet PMBus Revision 1.2 requirement,RoHS/REACH

## Optional Parts List

	Part Number	Qty	Description
<b>Fan(s)</b>	FAN-0157L4	-	40x40x56 mm 13K-11K RPM Counter-rotating Fan w / a 160-mm Wire Coming out from the Fan Inlet Side,RoHS/REACH
<b>HDD Bracket</b>	MCP-220-00044-0N	-	Retention Bracket for up to 2x 2.5" HDD
<b>HDD Bracket</b>	MCP-220-00051-0N	-	Retention Bracket for 1 x 2.5" HDD
<b>SuperDOM</b>	-	-	Supermicro SATA DOM Solutions <a href="#">[Details]</a>