

SuperServer 1018D-FRN8T



Available Colors: Silver

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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

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

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
 - up to 64GB DDR4 ECC/non-ECC UDIMM

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

Memory Type	<ul style="list-style-type: none"> 2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

SATA	<ul style="list-style-type: none"> SoC controller for SATA3 (6Gbps) ports
Network Controllers	<ul style="list-style-type: none"> Dual 10G SFP+ from D-1500 SoC Quad 1GbE with Intel I350-AM4 Dual 1GbE with Intel I210
IPMI	<ul style="list-style-type: none"> IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Dedicated RJ45 IPMI LAN port
Graphics	<ul style="list-style-type: none"> BMC integrated ASPEED AST2400

Input / Output

SATA	<ul style="list-style-type: none"> 4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x 10G SFP+ ports 6x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 3.0 ports (rear)
DOM	<ul style="list-style-type: none"> 1x SATA DOM (Disk on Module) power connector
VGA	<ul style="list-style-type: none"> 1x VGA Port
Others	<ul style="list-style-type: none"> TPM 1.2 header

- System Overheat LED
- Information LED (temp., status)

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 1x PCIe 3.0 x8 slots M.2 PCIe 3.0 x4, M Key 2242/2280/22110 Mini-PCIe with mSATA support
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Drive Bays


HDD	<ul style="list-style-type: none"> 4x 2.5" fixed drive bays
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System Cooling

Fans	<ul style="list-style-type: none"> Passive Heatsink, 40mm chassis fan
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AC/DC240V Input Redundant Power Supplies

400W 1U Redundant Power Supplies with PMbus

Total Output Power	<ul style="list-style-type: none"> 400W
Dimension (W x H x L)	<ul style="list-style-type: none"> 54.5 x 40 x 220 mm
Input	<ul style="list-style-type: none"> 100 - 240Vac / 6.0 - 3.0A / 50-60Hz 200 - 240Vdc / 3.4 - 3.2A (CCC Only)
+12V	<ul style="list-style-type: none"> Max: 33A / Min: 0.5A
+5V sb	<ul style="list-style-type: none"> Max: 3A / Min: 0A
Output Type	<ul style="list-style-type: none"> Gold Finger Connector Mating with Molex 45984-4343
Certification	 <ul style="list-style-type: none"> Platinum Level Certified [Test Report]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> PCI 3.0 ACPI 5.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.8 UEFI 2.4 RTC (Real Time Clock) Wakeup

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 0°C to 40°C (32°F to 104°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-X10SDV-7TP8F	1	Super X10SDV-7TP8F Motherboard
	CSE-515-R407	1	1U Chassis
Air Shroud	MCP-310-51502-0B	1	Mylar airshroud for SC515 with X10SDV
Cable 1	CBL-0082L	2	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0296L	4	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 3	CBL-0234L	1	4-PIN POWER SUPPLY Y-CABLE FOR HDD, 15CM, 20AWG
Cable 4	CBL-0228L	2	55CM SATA ROUND S-RA PBF 26AWG
Parts	MCP-260-00099-0N	1	1U I/O Shield for A2SDi-TP8F with EMI Gasket
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
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

Optional Parts List

	Part Number	Qty	Description
HDD Bracket	MCP-220-00044-0N	-	Retention Bracket for up to 2x 2.5" HDD
HDD Bracket	MCP-220-00051-0N	-	Retention Bracket for 1 x 2.5" HDD
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]

* 1x 3.5" or 2x 2.5" SATA3 with riser card