

SuperServer 1018D-FRN8T



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

Available Colors:

Silver

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Note: Image above may show a varied configuration of 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
 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

BIOS Features 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 RoHS Compliant

Environmental Spec. 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-0228L	2	SATA,INT,ROUND,ST-RA,55CM,26AWG
Cable 3	CBL-0296L	4	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 4	CBL-0234L	1	4-PIN POWER SUPPLY Y-CABLE FOR HDD, 15CM, 20AWG
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
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
Fan(s)	FAN-0157L4	-	40x40x56 mm 13K-11K RPM Counter-rotating Fan w/ a 160-mm Wire Coming out from the Fan Inlet Side,RoHS/REACH
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]

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