

SuperServer 5018D-FN8T



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

Key Features

- Compact Design, < 10" depth
- Cloud and Virtualization
- Network Appliance
- Embedded Application
- 7 year life cycle

1. Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4-Core, 8 Threads, 35W
2. 1x 3.5" or 4x 2.5" drive bays with bracket
3. 1x PCIe 3.0 x8 slot, 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. Passive CPU heat sink and 3x 40mm chassis fans
8. DOM power connector
9. 200W Low-noise power supply w/ PFC

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

Specifications

Product SKUs

- SYS-5018D-FN8T
- SuperServer 5018D-FN8T (Black)

Motherboard

Super X10SDV-TP8F

Processor/Cache

- CPU
- Intel® Xeon® processor D-1518, 2.2GHz; CPU TDP support 35W
 - FCBGA 1667

- Cores / Cache
- 4 Cores, 8 Threads / 6MB

System Memory

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

Chassis

- Form Factor
- 1U Rackmount
- Model
- CSE-505-203B

Dimensions and Weight

- Height
- 1.7" (43mm)
- Width
- 17.2" (437mm)
- Depth
- 9.8" (249mm)
- Weight
- Net Weight: 8 lbs (3.63 kg)
 - Gross Weight: 12 lbs (5.44 kg)
- Available Colors
- Black

Front Panel

- Buttons
- Power On/Off button
 - System Reset button
- LEDs
- Power LED
 - Hard drive activity LED
 - 2x Network activity LEDs

	ECC UDIMM
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 2.0 header

	<ul style="list-style-type: none"> 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
-------	--

Drive Bays

HDD	<ul style="list-style-type: none"> 1x 3.5" or 4x 2.5" fixed drive bays with bracket
-----	--

System Cooling

Fans	<ul style="list-style-type: none"> Passive Heatsink, 40mm chassis fan
------	--

Power Supply

200W Low Noise AC-DC power supply with PFC	
AC Voltage	<ul style="list-style-type: none"> 100 - 240V, 50-60Hz, 2.6 Amp Max
+5V	<ul style="list-style-type: none"> 8.0 Amp (max.)
+5V standby	<ul style="list-style-type: none"> 2.0 Amp (max.)
+12V	<ul style="list-style-type: none"> 16 Amp (max.)
-12V	<ul style="list-style-type: none"> 0.5 Amp (max.)
+3.3V	<ul style="list-style-type: none"> 8.0 Amp (max.)

Certification



Gold Certified

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: 10°C to 40°C (50°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-TP8F	1	Super X10SDV-TP8F Motherboard
	CSE-505-203B	1	1U Chassis
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-SAST-0538	2	29cm 30AWG SATA S-RA cable,HF,RoHS/REACH,PBF
FAN 1	FAN-0065L4	3	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Drive Tray(s)	MCP-220-00051-0N	2	Single 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
Rear Window	MCP-240-00091-0N	1	1U riser card bracket for standard chassis,HF,RoHS/REACH,PBF
Parts	MCP-260-00100-0B	1	1U I/O Shield
Fan Holder	MCP-320-81302-0B	3	Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only)
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

Optional Parts List

	Part Number	Qty	Description
Air Shroud	MCP-310-50502-0B	-	Air shroud
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