

# SuperServer 5018D-FN4T



Available Colors:

Black



## Key Features

- Front I/O
- Space-efficient, compact design
- Less than 10" depth
- Best Performance per Watt
- Fast to build and deploy

1. Intel® Xeon® processor D-1540/1541, Single socket FCBGA 1667; 8-Core, 45W
2. 2x 3.5" or 4x 2.5" SATA3 drive bays; 3.5" peripheral bay, 2.5" optional
3. 1x PCI-E 3.0 x16, 1x M.2 PCI-E 3.0 x4, M Key 2242/2280slot
4. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
5. Dual 10GbE LAN and Intel® i350-AM2 dual port GbE LAN
6. DOM power connector
7. 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-FN4T
- SuperServer 5018D-FN4T (Black)

### Motherboard

Super X10SDV-8C-TLN4F

### Processor/Cache

- CPU
- Intel® Xeon® processor D-1540/1541
  - FCBGA 1667 supported
  - CPU TDP support 45W
  - System-on-Chip

### 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 SDRAM

### 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 (3.62 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
  - System Overheat LED
  - Information LED (temp., status)

DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

SATA	<ul style="list-style-type: none"> <li>SoC controller for SATA3 (6Gbps) ports</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual LAN via Intel® i350-AM2 Gigabit Ethernet</li> <li>Dual LAN via SoC 10GBase-T</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>BMC integrated ASPEED AST2400</li> </ul>

#### Input / Output

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

#### Expansion Slots

PCI-E	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x16 slot</li> <li>1x M.2 PCI-E 3.0 x4, M Key 2242/2280</li> </ul>
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#### Drive Bays

HDD	<ul style="list-style-type: none"> <li>2x 3.5" or 4x 2.5" internal SATA3 hard drive bays (optional) *</li> </ul>
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#### System Cooling

Fans	<ul style="list-style-type: none"> <li>Passive Heatsink, 40mm chassis fan</li> </ul>
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#### Power Supply

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

Certification



Gold Certified

#### System BIOS

BIOS Type	<ul style="list-style-type: none"> <li>64Mb SPI Flash EEPROM with AMI UEFI BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>DMI 2.3</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>Hardware BIOS Virus protection</li> <li>SMBIOS 2.7.1</li> <li>UEFI</li> <li>RTC (Real Time Clock) Wakeup</li> </ul>

#### Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°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>

## Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10SDV-8C-TLN4F	1	Super X10SDV-8C-TLN4F Motherboard
	CSE-505-203B	1	1U Chassis
<b>Air Shroud</b>	MCP-310-50501-0B	1	mylar air shroud for SC504/505 with X10SDV,HF,RoHS/REACH
<b>Cable 1</b>	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
<b>Parts</b>	MCP-120-00063-0N	1	Riser card bracket for slot-7 in SC504
<b>Fan</b>	FAN-0065L4	1	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
<b>Label</b>	LBL-0997	1	Fan Warning Label 30x11mm,RoHS/REACH
<b>Manual</b>	MNL-1775-QRG	1	SYS-5018D-FN4T, QRG,HF,RoHS/REACH
<b>Parts</b>	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH
<b>Riser Card</b>	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
<b>Power Supply</b>	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

Optional Parts List			
	Part Number	Qty	Description
<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>TPM security module (optional, not included)</b>	<a href="#">AOM-TPM-9655V</a>	-	Vertical TPM 1.2 module w/ Infineon 9655
	<a href="#">AOM-TPM-9655V-S</a>	-	Vertical TPM 1.2 module w/ Infineon 9655, Provisioned for TXT use
<b>SuperDOM</b>	-	-	Supermicro SATA DOM Solutions <a href="#">[Details]</a>

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