

SuperServer 5018D-FN4T



Key Features

- Front I/O**
 - Space-efficient, compact design**
 - Less than 10" depth**
 - Best Performance per Watt**
 - Fast to build and deploy**
- Intel® Xeon® processor D-1541, Single socket FCBGA 1667; 8-Core, 45W
 - 2x 3.5" or 4x 2.5" SATA3 drive bays; 3.5" peripheral bay, 2.5" optional
 - 1x PCI-E 3.0 x16, 1x M.2 PCI-E 3.0 x4, M Key 2242/2280slot
 - Up to 128GB ECC RDIMM DDR4 2400MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
 - Dual 10GbE LAN and Intel® i350-AM2 dual port GbE LAN
 - DOM power connector
 - 200W Low-noise power supply w/ PFC

Available Colors:

Black

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[Network Card \(AOC\) Matrix](#)

Note: Image above may show a varied configuration of 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-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 2400/2133/1866/1600MHz ECC DDR4 SDRAM

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 LAN via Intel® i350-AM2 Gigabit Ethernet
Dual LAN via SoC 10GBase-T
Virtual Machine Device Queues reduce I/O overhead
Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
1x Realtek RTL8201N PHY (dedicated IPMI)

IPMI Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Graphics BMC integrated ASPEED AST2400

Input / Output

SATA 6x SATA3 (6Gbps) ports

LAN 2x RJ45 Gigabit Ethernet LAN ports
2x RJ45 10GBase-T ports
1x RJ45 Dedicated IPMI LAN port

USB 2x USB 3.0 ports (rear)

Serial Port 1x COM port (header)

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-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 Information LED
Information LED (temp., status)

Expansion Slots

PCI-E 1x PCI-E 3.0 x16 slot slot
1x M.2 PCI-E 3.0 x4, M Key 2242/2280

Drive Bays

HDD 2x 3.5" or 4x 2.5" internal SATA3 hard drive bays (optional) *

System Cooling

Fans Passive Heatsink, 40mm chassis fan

Power Supply

200W Low Noise AC-DC power supply with PFC

AC Voltage 100 - 240V, 50-60Hz, 2.6 Amp Max

+5V 8.0 Amp (max.)

+5V standby 2.0 Amp (max.)

+12V 16 Amp (max.)

-12V 0.5 Amp (max.)

+3.3V 8.0 Amp (max.)



System BIOS

BIOS Type 64Mb SPI Flash EEPROM with AMI UEFI BIOS

BIOS Features Plug and Play (PnP)
APM 1.2
DMI 2.3
PCI 2.3
ACPI 1.0 / 2.0 / 3.0 / 4.0
USB Keyboard support
Hardware BIOS Virus protection
SMBIOS 2.7.1
UEFI
RTC (Real Time Clock) Wakeup

Operating Environment / Compliance

RoHS RoHS Compliant

Environmental Spec. Operating Temperature:
10°C to 35°C (50°F to 95°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-8C-TLN4F	1	Super X10SDV-8C-TLN4F Motherboard
	CSE-505-203B	1	1U Chassis
Air Shroud	MCP-310-50501-0B	1	mylar air shroud for SC504/505 with X10SDV,HF,RoHS/REACH
Cable 1	CBL-0061L	1	SATA,INT,FLAT,31.5CM,26AWG
Parts	MCP-120-00063-0N	1	Riser card bracket for slot-7 in SC504
Fan	FAN-0065L4	1	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M
Label	LBL-0997	1	Fan Warning Label 30x11mm,RoHS/REACH
Manual	MNL-1775-QRG	1	SYS-5018D-FN4T, QRG,HF,RoHS/REACH
Parts	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

Optional Parts List

	Part Number	Qty	Description
Internal 2.5" HDD Tray	MCP-220-00044-0N	-	Dual 2.5" fixed HDD bracket
Internal 2.5" HDD Tray	MCP-220-00051-0N	-	Single 2.5" fixed HDD bracket
Cable for internal HDD	CBL-0483LCBL-0211LCBI-0082L	---	29cm 30AWG SATA straight to straigh cableBig 4 pin to 3x SATA power cableY split, big 4 pin to two RA SATA power extension 15cm
AOC Cooling Fan	FAN-0154L4MCP-320-81302-0B	11	40x40x28mm 22.5K RPM, SC813MF Middle Cooling FanFan tray for one 40x28mm fan
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard Lp, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGS-i2T	-	Standard Lp, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
TPM security module	AOM-TPM-9665VAOM-TPM-9655V	11	TPM 2.0, vertical form factorTPM 1.2, vertical form factor
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

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