

SuperServer 5019P-MT



Integrated Board



Super X11SPi-TF

Views: | [Angled View](#) | [Top View](#) |
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Key Features

- ❑ **Web Hosting, VM**
- ❑ **Application and Data Serving**
- ❑ **Database Applications**

1. Single Socket P (LGA 3647) supports 2nd Gen. Intel® Xeon® Scalable processor (Cascade Lake/Skylake)[‡]
2. 8 DIMMs; up to 2TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM
3. 1 PCI-E 3.0 x16 slot
4. 4 Hot-swap 3.5" SATA3 bays w/ RAID
5. 2x 10GBase-T ports with Intel X722 + X557
6. Integrated IPMI 2.0 and KVM with Dedicated LAN
7. 1 VGA, 2 COM, 4 USB 3.0, 2 USB 2.0
8. 350W High-efficiency Power Supply **Platinum Level Certified**

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

Specifications

Product SKUs

- SYS-5019P-MT** ■ SuperServer 5019P-MT (**Black**)

Motherboard

Super X11SPi-TF

Processor/Cache

- CPU** ■ Single Socket P (LGA 3647)
■ 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)†
■ Support CPU TDP 70-205W

- Cores** ■ Up to 28 Cores

- Note** † BIOS version 3.0b or above is required to support 2nd Gen. Intel® Xeon® Scalable processors

System Memory

- Memory Capacity** ■ 8 DIMM slots
■ Up to 2TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM

- Memory Type** ■ 2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

- Note** † 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro
†† Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

- Chipset** ■ Intel® C622 chipset

- SATA** ■ SATA3 (6Gbps) via C622 controller
■ RAID 0, 1, 5, 10 support

- Network Controllers** ■ Dual 10GBase-T LAN with Intel® X722 + X557

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

- Video** ■ ASPEED AST2500 BMC

Input / Output

- SATA** ■ 10 SATA3 (6Gbps) ports

- LAN** ■ 2 RJ45 10GBase-T LAN ports
■ 1 RJ45 Dedicated IPMI LAN port

- USB** ■ 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
■ 6 USB 2.0 ports (2 rear + 4 headers)

- Video** ■ 1 VGA port

- Serial Port / Header** ■ 2 COM ports (1 rear, 1 front)

- SuperDOM** ■ 2 SuperDOM (Disk on Module) ports with built-in power

System BIOS

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-813MFTQC-350CB2**

Dimensions and Weight

- Height** ■ 1.7" (43mm)

- Width** ■ 17.2" (437mm)

- Depth** ■ 19.85" (503mm)

- Package** ■ 8.5" (H) x 24" (W) x 29.5" (D)

- Weight** ■ Gross Weight: 30.4 lbs (13.8 kg)
■ Net Weight: 17.6 lbs (8 kg)

- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off button
■ System Reset button

- LEDs** ■ Power LED
■ Hard drive activity LED
■ Network activity LEDs
■ System Information LED

Expansion Slots

- PCI-Express** ■ 1 PCI-E 3.0 x16 slot

- M.2** ■ 1x M.2 Interface: PCI-E 3.0 x4 and SATA
■ Form Factor: 2280, 22110
■ Key: M-Key
■ Double Height Connector

Drive Bays / Storage

- Hot-swap** ■ 4 Hot-swap 3.5" SATA3 drive bays

Peripheral Drives

- Optional** ■ Optional slim optical device bay, optional FDD/USB bay

System Cooling

- Fans** ■ 4x 40mm PWM fans
■ Optional 2 PWM fans for AOC

Power Supply

350W AC power supply w/ PFC

- AC Voltage** ■ 100-240 V, 50-60 Hz, 4.2-1.8 Amp

- +5V** ■ Max.: 15 Amp
■ Min.: 0.2 Amp

- +5V standby** ■ Max.: 3 Amp
■ Min.: 0 Amp

- +12V** ■ Max.: 29 Amp
■ Min.: 0.5 Amp

- 12V** ■ Max.: 0.2 Amp
■ Min.: 0 Amp

- +3.3V** ■ Max.: 12 Amp
■ Min.: 0.2 Amp

BIOS Type	■ AMI 32Mb SPI Flash ROM
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Management	
Software	■ Intel® Node Manager ■ <u>IPMI 2.0</u> ■ KVM w ith dedicated LAN ■ NMI ■ <u>SPM, SUM</u> ■ <u>SuperDoctor® 5</u> ■ Watch Dog

Power Configurations	■ ACPI Pow er Management
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PC Health Monitoring	
CPU	■ Monitors for CPU Cores, Chipset Voltages, Memory. ■ 4+1 Phase-sw itching voltage regulator

FAN	■ Fans with tachometer monitoring ■ Status monitor for speed control ■ Pulse Width Modulated (PWM) fan connectors
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Temperature	■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors
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Certification	 Platinum Level Certified [<u>Test Report</u>]
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Operating Environment	
RoHS	■ RoHS Compliant

Environmental Spec.	■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SPi-TF	1	Super X11SPi-TF Motherboard
	CSE-813MFTQC-350CB2	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0186L	1	SATA,INT,ROUND,SET OF 4,ST-RA 56/45.5/35/23CM,26AWG
Cable 2	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
Parts	MCP-120-00031-0N	1	Riser card bracket for SC812,813,813M,815,111,113,113M
Drive Tray(s)	MCP-220-00129-0B	1	Black 2x USB3.0/COM port tray in slim FDD bay
Air Shroud	MCP-310-19007-0N	1	SC811/SC512L/SC512F/SC813M/SC113M/SC513L-410B/SC513L-420B/SC513F, UP X9SRE/I, X9 Mylar Air Shroud, 12"x9.6" MB
Manual	MNL-1920-QRG	1	5019P-MT/MTR, QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0067PS	1	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
2.5" to 3.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-swap Gen-4 2.5" to 3.5" HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD mounting kit
Internal 2.5" HDD Tray (FDD slot)	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD
Internal 2.5" HDD Tray (DVD slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" slim HDD
Cable for internal HDD	CBL-0484L	2	55cm 30AWG SATA straight to straight cable
	CBI-0289L	1	Y split, big 4 pin to two RA SATA power extension 30cm
Hot-swap 2.5" kit (FDD slot)	MCP-220-81504-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim FDD form factor
Hot-swap 2.5" kit (DVD slot)	MCP-220-81506-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim DVD form factor
USB/COM port tray (FDD slot)	MCP-220-00129-0B	1	Black 2x USB3.0/COM port tray in slim FDD form factor
Cooling Fan	FAN-0154L4	-	40x40x28mm 22.5K RPM, SC813MF Middle Cooling Fan
Storage Controller card & cable	AOC-S3108L-H8iR	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8,
	& 1x CBL-SAST-0811		RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3108L-H8iR-16DD		Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8,
	& 1x CBL-SAST-0811		16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i		Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8,
	& 1x CBL-SAST-0811		63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e		Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8,
	& 1x CBL-SAST-0811		122HDD HBA

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
	AOC-S25G-b2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414
	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX
Front Bezels	CSE-PTFB-813LB	-	Black front bezels
	CSE-PTFB-813-02B	-	Black Front Bezel w / Round Venting Holes
TPM security module	AOM-TPM-9670V	1	TPM 2.0, vertical form factor
	AOM-TPM-9671V	1	TPM 1.2, vertical form factor
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • <i>eStore</i>	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)