

SuperServer 5019S-M



Integrated Board



Super X11SSH-F

Views: | [Angled View](#) | [Top View](#) |
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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Key Applications

**Cloud, Web hosting, File/Print
High flexibility, Communication
Mainstream, Light load VM**

Key Features

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 4 Hot-swap 3.5" SATA3 bays w/ RAID
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
5. 1 PCI-E 3.0 x8 (in x16) AOC slot
6. 2 GbE ports with Intel® i210-AT
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 1 VGA, 2 COM, 4 USB 3.0, 2 USB 2.0
9. 350W Platinum Level Power Supply

Specifications

Product SKUs

SYS-5019S-M ■ SuperServer 5019S-M (Black)

Motherboard

Super X11SSH-F

Processor

CPU ■ Single Socket H4 (LGA 1151) supports:
 ■ Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen Core™ i3
 ■ CPU TDP up to 80W

Note BIOS version 2.0 or above is required to support Intel® Xeon® Processor E3-1200 v6 series or 7th Generation Intel® Core™ Processors

System Memory

Memory Capacity ■ 4x 288-pin DDR4 DIMM slots
 ■ Up to 64GB DDR4 ECC UDIMM

Memory Type ■ 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs

DIMM Sizes ■ 16GB, 8GB, 4GB

Memory Voltage ■ 1.2 V

Error Detection ■ Corrects single-bit errors
 ■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C236 chipset

SATA ■ SATA3 (6Gbps) via C236 controller
 ■ RAID 0, 1, 5, 10 support

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 ■ ASPEED AST2400 BMC

Network Controllers ■ Dual Intel® I210-AT Gigabit Ethernet LAN ports
 ■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Video ■ ASPEED AST2400 BMC

Input / Output

SATA ■ 8 SATA3 (6Gbps) ports

LAN ■ 2 RJ45 Gigabit Ethernet 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

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-813MFTQC-350CB**

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
 ■ 2 Network activity LEDs
 ■ System Information LED

Expansion Slots

PCI-Express ■ 1 PCI-E 3.0 x8 (in x16) AOC slot

M.2 ■ 1x M.2 Interface: PCI-E 3.0 x2
 ■ Form Factor: 2280
 ■ Key: M-Key
 ■ Double Height Connector

Drive Bays

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

Peripheral Drives

Optional ■ 2 Fixed 2.5" internal drives

Backplane

SAS/SATA HDD Backplane
 (SAS support requires optional SAS controller)

System Cooling

Fans ■ 4x 40x28mm 4-pin PWM Cooling Fans
 ■ Optional 1x 40x28mm PWM fan

Power Supply

350W AC power supply w/ PFC

AC Voltage ■ 100-240 V, 50-60 Hz, 5.0-2.5 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

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
FAN	<ul style="list-style-type: none"> Total of 5 fan headers supporting up to 5 fans 4 fans with tachometer status monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support I²C temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> System Information LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header RoHS, Halogen Free

-12V	<ul style="list-style-type: none"> Max.: 0.2 Amp Min.: 0 Amp
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+3.3V	<ul style="list-style-type: none"> Max.: 12 Amp Min.: 0.2 Amp
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Certification	 Platinum Level Certified [Test Report]
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System BIOS

BIOS Type	<ul style="list-style-type: none"> 8MB SPI Flash EEPROM with AMI BIOS
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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Environmental Spec.	<ul style="list-style-type: none"> 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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SSH-F	1	Super X11SSH-F Motherboard
	CSE-813MFTQC-350CB	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-1779-QRG	1	5019S-M/MR,QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
FAN 1	FAN-0147L4	4	40x40x28 mm, 17.5K RPM, SC813MTS Middle Cooling Fan,RoHS/REACH,PBF

Optional Parts List

	Part Number	Qty	Description
3.5" to 2.5" 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
Cooling Fan	FAN0147L4	-	40x40x28 mm, 17.5K RPM, SC813MTS Middle Cooling Fan,RoHS/REACH,PBF
Storage Controller card & cable	AOC-S3108L-H8iR & 1x CBL-SAST-0811	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3108L-H8iR-16DD & 1x CBL-SAST-0811	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 1x CBL-SAST-0811	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 1x CBL-SAST-0811	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
	AOC-S3008L-L8e & 1x CBL-SAST-0811	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 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-9665V	1	TPM 2.0, vertical form factor
	AOM-TPM-9655V	1	TPM 1.2, vertical form factor
Global Services & Support	OS4HR3/2/1	-	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)