

SuperServer 1019S-MC0T



Integrated Board



Super X11SSH-CTF

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

**Storage HN, VM, Hosting
Mainstream, Compact File Server**

Key Features

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C236 chipset
3. 8 Hot-swap 2.5" SAS/SATA3 Drive Bays
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
5. 1 PCI-E 3.0 x8 AOC slot
6. 2x 10GBase-T ports with Intel® X550
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 1 VGA, 1 COM, 2 USB 3.0, 2 USB 2.0
9. 340W High-efficiency Power Supply

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

Specifications

Product SKUs

- SYS-1019S-MC0T** ■ SuperServer 1019S-MC0T (**Black**)

Motherboard

Super X11SSH-CTF

Processor/Cache

- CPU**
- Single Socket H4 (LGA 1151) supports:
 - Intel® Xeon® processor E3-1200 v6/v5,
 - Intel® 7th/6th Gen Core™ i3,
 - Intel® Pentium®,
 - Intel® Celeron® processors
 - 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 (6 Gbps) via C236 controller
■ RAID 0, 1, 5, 10
- SAS** ■ Broadcom 3008 SAS3 (12Gbps) controller;
SW RAID 0, 1, 10
- 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® X550 10GBase-T LAN ports
■ Virtual Machine Device Queues reduce I/O overhead
■ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- Video** ■ ASPEED AST2400 BMC

Input / Output

- SATA** ■ 8 SATA3 (6Gbps) ports
- SAS** ■ 8 SAS3 (12Gbps) ports

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-113MFAC2-341CB**

Dimensions and Weight

- Height** ■ 1.7" (43mm)
- Width** ■ 17.2" (437mm)
- Depth** ■ 19.98" (507mm)
- Package** ■ 8.5" (H) x 24" (W) x 29.5" (D)
- Weight** ■ Gross Weight: 31 lbs (14.1 kg)
■ Net Weight: 18.5 lbs (8.4 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-E** ■ 1 PCI-E 3.0 x8
- M.2** ■ 1x M.2 Interface: SATA and PCI-E 3.0 x4
■ Form Factor: 2260
■ Key: M-Key
■ Double Height Connector

Drive Bays

- Hot-swap** ■ 8 Hot-swap 2.5" SAS/SATA3 drive bays

Backplane

- SAS3/SATA HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

- Fans** ■ 4x 4cm chassis internal fan
■ Optional 2x 40x28mm PWM fan

Power Supply

340W AC power supply w/ PFC

- AC Voltage** ■ 100-240 V, 50-60 Hz, 4.2-1.8 Amp
- +5V** ■ Max: 16 Amp / Min: 0.5A
- +12V** ■ Max: 28 Amp / Min: 0.5A
- +3.3V** ■ Max: 15 Amp
- +5V standby** ■ Max: 3 Amp
- 12V** ■ Max: 0.5 Amp

Certification



Platinum Level

LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A) 6 USB 2.0 ports (2 rear + 4 headers)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2 COM ports (1 rear, 1 header)
SuperDOM	<ul style="list-style-type: none"> 2 <u>SuperDOM</u> (Disk on Module) ports with built-in power

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 6 fan headers supporting up to 6 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

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
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)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SSH-CTF	1	Super X11SSH-CTF Motherboard
	CSE-113MFAC2-341CB	1	1U Chassis
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
Backplane	BPN-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
Cable 1	CBL-SAST-0568	2	MINI SAS HD,12G,INT,35CM,30AWG
Manual	MNL-1844-QRG	1	1019S-MC0T,QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8
Heatsink / Retention	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
Cooling Fan	FAN-0154L4	4	40x40x28mm 22.5K RPM Cooling Fan
Power Supply	PWS-341P-1H	1	1U 340W Multi Output with PMBus Power Supply 24Pin

Optional Parts List

	Part Number	Qty	Description
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
Cooling Fan	FAN-0154L4	2	40x40x28mm 22.5K RPM, Middle Cooling Fan
Storage Controller card & cable	AOC-S3108L-H8iR & 2x CBL-SAST-0532	-	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 & 2x CBL-SAST-0532	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
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	MCP-210-11601-0B	1	Black front bezels
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)