

# SuperServer 5019S-MN4



## Integrated Board



## Super X11SSH-LN4F

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

- SMB, Web hosting, File/Print
- Network-Centric, General Purpose
- Mainstream; Domain Controller

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. 4 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

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

# Specifications

## Product SKUs

- SYS-5019S-MN4** ■ SuperServer 5019S-MN4 (**Black**)

## Motherboard

### **Super X11SSH-LN4F**

## Processor/Cache

- 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** ■ Quad 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** ■ 4 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)

## 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, 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


<b>SuperDOM</b>	<ul style="list-style-type: none"> <li>2 SuperDOM (Disk on Module) ports with built-in power</li> </ul>
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### PC Health Monitoring

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

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

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

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<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-X11SSH-LN4F	1	Super X11SSH-LN4F Motherboard
	CSE-813MFTQC-350CB	1	1U Chassis
<b>Backplane</b>	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
<b>Cable 1</b>	CBL-0186L	1	SATA,INT,ROUND,SET OF 4,ST-RA 56/45.5/35/23CM,26AWG
<b>Cable 2</b>	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
<b>Parts</b>	MCP-120-00031-0N	1	Riser card bracket for SC812,813,813M,815,111,113,113M
<b>Drive Tray(s)</b>	MCP-220-00129-0B	1	Black 2x USB3.0/COM port tray in slim FDD bay
<b>Air Shroud</b>	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
<b>Manual</b>	MNL-1776-QRG	1	5019S-MN4, QRG, HF, RoHS/REACH
<b>Riser Card</b>	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
<b>Heatsink / Retention</b>	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA 1156
<b>Power Supply</b>	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
<b>FAN 1</b>	FAN-0147L4	4	40x40x28 mm, 17.5K RPM, SC813MTS Middle Cooling Fan, RoHS/REACH, PBF

## Optional Parts List

	Part Number	Qty	Description	
<b>2.5" to 3.5" Converter Tray</b>	MCP-220-00043-0N	-	Black Hot-swap Gen-4 2.5" to 3.5" HDD tray	
<b>DVD-ROM / DVD-RW</b>	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive	
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive	
<b>DVD-ROM Accessory</b>	MCP-220-81502-0N	1	Slim SATA DVD mounting kit	
<b>Internal 2.5" HDD Tray (FDD slot)</b>	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD	
<b>Internal 2.5" HDD Tray (DVD slot)</b>	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" slim HDD	
<b>Cable for internal HDD</b>	CBL-0484L	2	55cm 30AWG SATA straight to straight cable	
	CBL-0289L	1	Y split, big 4 pin to two RA SATA power extension 30cm	
<b>Hot-swap 2.5" kit (FDD slot)</b>	MCP-220-81504-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim FDD form factor	
<b>Hot-swap 2.5" kit (DVD slot)</b>	MCP-220-81506-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim DVD form factor	
<b>Cooling Fan</b>	FAN-0154L4	-	40x40x28mm 22.5K RPM, SC813MF Middle Cooling Fan	
<b>Storage Controller card &amp; cable</b>	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	
<b>Network Card(s)</b>	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	

<b>Front Bezels</b>	<u>CSE-PTFB-813LB</u>	-	Black front bezels
	<u>CSE-PTFB-813-02B</u>	-	Black Front Bezel w / Round Venting Holes
<b>TPM security module</b>	<u>AOM-TPM-9665V</u>	1	TPM 2.0, vertical form factor
	<u>AOM-TPM-9655V</u>	1	TPM 1.2, vertical form factor
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-OOB-LIC</u> • <i>eStore</i>	1	OOB Management Package (per node license)
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)