

SuperServer 5019S-M



Integrated Board



[Super X11SSH-F](#)

Key Features

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

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 4x 3.5" Hot-swap SATA3 bays w/ RAID
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2133MHz; 4x DIMM slots
5. 1 PCI-E 3.0 x8 (in x16) AOC slot
6. 2x GbE ports with Intel® i210-AT
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0 (front/rear), USB 2.0
9. 350W Platinum Level Power Supply

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

Specifications

Product SKUs

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

Motherboard

Super X11SSH-F

Processor/Cache

CPU

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

System Memory

Memory Capacity

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

Memory Type

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

DIMM Sizes

- 16GB, 8GB, 4GB

Memory Voltage

- 1.2 V

- Corrects single-bit errors

Chassis

Form Factor

- 1U Rackmount

Model

- **CSE-813MFTQC-350CB**

Dimensions and Weight

Height

- 1.7" (43mm)

Width

- 17.2" (437mm)

Depth

- 19.8" (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
- 2x Network activity LEDs
- System Overheat LED

Expansion Slots

Error Detection	<ul style="list-style-type: none"> ▪ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	<ul style="list-style-type: none"> ▪ Intel® C236 chipset
SATA	<ul style="list-style-type: none"> ▪ SATA3 (6Gbps) via C236 controller ▪ RAID 0, 1, 5, 10 support
IPMI	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ Dual Intel® I210-AT Gigabit Ethernet LAN ports ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	<ul style="list-style-type: none"> ▪ ASPEED AST2400 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> ▪ 4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> ▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ▪ 2x USB 3.0 ports (front/rear) ▪ 2x USB 2.0 ports
Video	<ul style="list-style-type: none"> ▪ 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> ▪ 2x COM ports (1 rear, 1 header)
SuperDOM	<ul style="list-style-type: none"> ▪ 2x <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 4 fan headers supporting up to 4 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"> ▪ CPU / System Overheat LED ▪ Suspend static indicator LED ▪ UID/Remote UID
Other Features	<ul style="list-style-type: none"> ▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ Chipkill support ▪ RoHS, Halogen Free

PCI-Express	<ul style="list-style-type: none"> ▪ 1x PCI-E 3.0 x8 (in x16) AOC slot ▪ 1x M.2 connector
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> ▪ 4x 3.5" Hot-swap SATA3 drive bays
Peripheral Drives	
Optional	<ul style="list-style-type: none"> ▪ 2x 2.5" Fixed drives internal
Backplane	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
System Cooling	
Fans	<ul style="list-style-type: none"> ▪ 4x 40x28mm 4-pin PWM Cooling Fans
Power Supply	
350W AC power supply w/ PFC	
AC Voltage	<ul style="list-style-type: none"> ▪ 100-240 V, 50-60 Hz, 4.2-1.8 Amp
+5V	<ul style="list-style-type: none"> ▪ Max.: 15 Amp ▪ Min.: 0.2 Amp
+5V standby	<ul style="list-style-type: none"> ▪ Max.: 3 Amp ▪ Min.: 0 Amp
+12V	<ul style="list-style-type: none"> ▪ Max.: 29 Amp ▪ Min.: 0.5 Amp
-12V	<ul style="list-style-type: none"> ▪ Max.: 0.2 Amp ▪ Min.: 0 Amp
+3.3V	<ul style="list-style-type: none"> ▪ Max.: 12 Amp ▪ Min.: 0.2 Amp
Certification	 Platinum Level Certified [Test Report]
System BIOS	
BIOS Type	<ul style="list-style-type: none"> ▪ 8MB SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> ▪ DMI 2.3 ▪ PCI 2.3 ▪ ACPI 1.0 / 2.0 ▪ USB Keyboard support ▪ SMBIOS 2.3
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-F	1	Super X11SSH-F Motherboard
	CSE-813MFTQC-350CB	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-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS/SAS HDD/SSD
Cable 1	CBL-CDAT-0661	1	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
Cable 2	CBL-0186L	1	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
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
Manual	MNL-1779-QRG	1	5019S-M/MR,QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-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