

SuperServer 5019S-M2



Integrated Board



Super X11SSZ-F

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

- ☐ **Embedded**
- ☐ **Security and Surveillance**
- ☐ **Appliance Server, Secure Storage**
- ☐ **Rack Workstation**

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i7/i5/i3 series, Intel® Celeron® and Intel® Pentium®

2. Intel® C236 chipset

3. 4 Hot-swap 3.5" SATA3 bays, Intel RST

4. Up to 64GB Unbuffered ECC/Non-ECC UDIMM DDR4 2400MHz; 4 DIMM slots

5. 1 PCI-E 3.0 x16 slot

6. 1 GbE LAN w/ Intel® i210-AT, 1 GbE LAN w/ Intel® PHY i219LM

7. Integrated IPMI 2.0 and KVM with Dedicated LAN

8. 1 VGA, 1 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-M2** ■ SuperServer 5019S-M2 (Black)

Motherboard

Super X11SSZ-F

Processor/Cache

- CPU**
- Single Socket H4 (LGA 1151) supports:
 - Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen Core™ i7/i5/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/Non-ECC UDIMM
- Memory Type**
- 2400/2133/1866/1600MHz ECC/Non-ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
- DIMM Sizes**
- 16GB, 8GB, 4GB
- Memory Voltage**
- 1.2 V

On-Board Devices

- Chipset**
- Intel® C236 chipset
- SATA**
- 4x SATA3 (6Gbps) via Intel® 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**
- Intel® PHY i219LM + Intel® i210AT Gigabit Ethernet LAN Controllers
 - Virtual Machine Device Queues reduce I/O overhead
 - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- Audio**
- RealTek ALC 888S High Definition Audio
- Video**
- ASPEED AST2400 BMC

Input / Output

- SATA**
- 4 SATA3 (6Gbps) ports
- LAN**
- 2 RJ45 Gigabit Ethernet LAN ports
 - 1 RJ45 Dedicated IPMI LAN port
- USB**
- 4 USB 3.0 ports (2 rear + 2 headers)
 - 9 USB 2.0 ports (2 rear + 6 headers + 1 Type A)
- Audio**
- Front panel header

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 29.7" (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 x16 slot

Drive Bays

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

Backplane

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

System Cooling

- Fans** ■ 4x 4cm internal fans

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

Certification



Platinum Level Certified
[[Test Report](#)]

Video/Display	2 DP (Display Port), 1 DVI-I from Intel® HD Graphics, 1 VGA from AST2400 3 Independent Displays from Processor Graphics, VGA is from AST2400 for BMC KVM
Serial Port / Header	2 COM ports (1 front, 1 header)
PC Health Monitoring	
Voltage	Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
FAN	- 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	- Monitoring for CPU and chassis environment - CPU thermal trip support °C temperature sensing logic - Thermal Monitor 2 (TM2) support - PECI
LED	- System Information LED - Suspend static indicator LED - UID/Remote UID
Other Features	- Chassis intrusion detection - Chassis intrusion header - RoHS, Halogen Free

System BIOS

BIOS Type	8MB SPI Flash EEPROM with AMI BIOS
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Operating Environment / Compliance

RoHS	RoHS Compliant
Environmental Spec.	- 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-X11SSZ-F	1	Super X11SSZ-F Motherboard
	CSE-813MFTQC-350CB	1	1U Chassis
Backplane	BPB-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
Parts	MCP-260-00094-0N	1	1U I/O Shield for X11SSZ w ith EMI Gasket,RoHS/REACH
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-1821-QRG	1	5019S-M2 QRG
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 w ith 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 pow er supply (180mm)
FAN 1	FAN-0147L4	4	40x40x28 mm, 17.5K RPM, SC813MTS Middle Cooling Fan,RoHS/REACH,PBF