

SuperServer 1019S-M2



Integrated Board



Super X11SSZ-QF

Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |

[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) |
[▶ Manuals](#) | [▶ OS Certification Matrix](#)

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

Key Features

- Embedded, 7-year life cycle
- Industrial Automation & Control
- Military Compact Server
- VOIP and Network Appliances
- Medical Applications

1. Single Socket H4 (LGA 1151) supports Intel® 7th/6th Gen. Core i7/i5/i3 series, Intel® Celeron® and Intel® Pentium® processors

2. Intel® Q170 Express chipset

3. 2 Fixed 2.5" drive bays

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

5. 1 PCI-E 3.0 x16 (in 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, vPro supported

8. 2 DP, 1 DVI-I, Intel HD Graphics, with 3 independent displays, VGA for BMC AST2400

9. 400W **Platinum Level** Power Supply + Optional 2nd redundant 400W Power supply or Battery Backup Unit

Specifications

Product SKUs

- SYS-1019S-M2** ■ SuperServer 1019S-M2 (Black)

Motherboard

Super X11SSZ-QF

Processor/Cache

- CPU** ■ Intel® 7th/6th Gen Core i7/i5/i3 series, Intel® Celeron®, Intel® Pentium® processors; CPU TDP support up to 80W TDP
 - Single Socket H4 (LGA 1151)

Note BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ Processors

System Memory

- Memory Capacity** ■ 4x 288-pin DDR4 DIMM slots
 - Up to 64GB DDR4 Non-ECC UDIMM
- Memory Type** ■ 2400/2133/1866/1600MHz 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® Q170 Express chipset
- SATA** ■ SATA3 (6Gbps) via Intel® Q170 Express controller
 - RAID 0, 1 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 and Intel HD Graphics 530

Input / Output

- SATA** ■ 2 SATA3 (6Gbps) ports; RAID 0, 1
- LAN** ■ 2 RJ45 Gigabit Ethernet LAN ports
 - 1 RJ45 Dedicated IPMI LAN port
- USB** ■ 2 USB 3.0 ports (2 rear)
 - 3 USB 2.0 ports (2 rear + 1 Type A)
- 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

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-514-407C-1P**

Dimensions and Weight

- Height** ■ 1.7" (43mm)
- Width** ■ 17.2" (437mm)
- Depth** ■ 16.9" (429mm)
- Package** ■ 8" (H) x 24" (W) x 24" (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 (in x16 slot)

Drive Bays

- Internal** ■ 2 Fixed 2.5" SATA3 drive bays

System Cooling

- Fans** ■ 4x 40x56mm PWM fan; 2x fans for AOC cooling

Power Supply

400W Platinum level power supply with PMBus and I2C

- AC Input** ■ 400W: 100-240 V, 50-60 Hz
- DC Output** ■ 3 Amp
- +5V standby**
- DC Output** ■ 33 Amp
- +12V**

- Certification** ■  **Platinum Level**

PC Health Monitoring

- Voltage** ■ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.

Serial Port / Header	<ul style="list-style-type: none">■ 2 serial headers
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SuperDOM	<ul style="list-style-type: none">■ 1 <u>SuperDOM</u> (Disk on Module) port with built-in power
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System BIOS

BIOS Type	<ul style="list-style-type: none">■ 128Mb SPI Flash EEPROM with AMI BIOS
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BIOS Features	<ul style="list-style-type: none">■ Plug and Play (PnP)■ DMI 2.3■ PCI 3.0■ ACPI 5.0■ USB Keyboard support■ Hardware BIOS Virus protection■ SMBIOS 3.0■ UEFI 2.3.1■ RTC (Real Time Clock) Wakeup
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Management

Software	<ul style="list-style-type: none">■ AMT■ IPMI 2.0 with KVM support■ NMI■ vPro■ Watch Dog■ <u>SuperDoctor® 5</u>
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Power Configurations	<ul style="list-style-type: none">■ ACPI Power Management■ Keyboard Wakeup from Soft-Off■ CPU Fan auto-off in sleep mode■ Power-on mode for AC power recovery
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FAN	<ul style="list-style-type: none">■ Total of 6 fan headers supporting up to 6 fans■ 6 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
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Temperature	<ul style="list-style-type: none">■ Monitoring for CPU and chassis environment■ CPU thermal trip support■ μC temperature sensing logic■ Thermal Monitor 2 (TM2) support■ PECI
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LED	<ul style="list-style-type: none">■ System Information LED■ Suspend static indicator LED■ UID/Remote UID
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Other Features	<ul style="list-style-type: none">■ Chassis intrusion detection■ Chassis intrusion header■ RoHS, Halogen Free
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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:<ul style="list-style-type: none">0°C to 40°C (32°F to 104°F)■ Non-operating Temperature:<ul style="list-style-type: none">-40°C to 70°C (-40°F to 158°F)■ Operating Relative Humidity:<ul style="list-style-type: none">8% to 90% (non-condensing)■ Non-operating Relative Humidity:<ul style="list-style-type: none">5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SSZ-QF	1	Super X11SSZ-QF Motherboard
	CSE-514-407C-1P	1	1U Chassis
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0227L	2	SATA,INT,ROUND,ST-RA,48CM,26AWG
Cable 3	CBL-0296L	4	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 4	CBL-0062L	1	PWEX,2X4MP4.2 TO 2X4F/P4.2,12V,BLK*4,YEL*4,20CM,18AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Parts	MCP-260-00094-0N	1	1U I/O Shield for X11SSZ with EMI Gasket,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-407P-1R	1	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Power Supply	PWS-407P-1R	-	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH
Power Supply	PWS-206B-1R	-	Battery Backup Unit