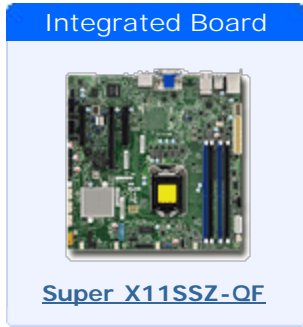


SuperServer 5019S-M2



Key Features

- Embedded
- Security and Surveillance
- Appliance Server, Secure Storage

1. Single socket H4 (LGA 1151) supports Intel® 6th Gen. Core i7/i5/i3 series, Intel® Celeron® and Intel® Pentium® processors
2. Intel® Q170 Express chipset
3. 4x 3.5" Hot-swap SATA3 bays, Intel RST
4. Up to 64GB Unbuffered Non-ECC UDIMM DDR4 2133MHz; 4 DIMM slots
5. 1x PCI-E 3.0 x16 FH, FL slot
6. 1x GbE LAN w/ Intel® i210-AT, 1x GbE LAN w/ Intel® PHY i219LM
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 4x USB 3.0 (2 rear), 9x USB 2.0 (2 rear, 1 Type A), 2x serial header, 1x SuperDOM (shared) audio header
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-M2
- SuperServer 5019S-M2 (Black)

Motherboard

Super X11SSZ-QF

Processor/Cache

- CPU
- Intel® 6th Gen Core i7/i5/i3 series, Intel® Celeron®, Intel® Pentium® processors; K-type Core i7, i5 not support
 - Single Socket H4 (LGA 1151)

System Memory

- Memory Capacity
- 4x 288-pin DDR4 DIMM slots
 - Up to 64GB DDR4 Non-ECC UDIMM
- Memory Type
- 2133/1866/1600MHz Non-ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs

Chassis

- Form Factor
- 1U Rackmount
- Model
- CSE-813MFTQC-350CB


Dimensions and Weight

- Height
- 1.7" (43mm)
- Width
- 17.2" (437mm)
- Depth
- 23.4" (594mm)
- 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
- Power LED

DIMM Sizes	<ul style="list-style-type: none"> 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® Q170 Express chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via Intel® Q170 Express 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"> 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	<ul style="list-style-type: none"> RealTek ALC 888S High Definition Audio
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 (2 rear) 3x USB 2.0 ports (2 rear + 1 Type A)
Audio	<ul style="list-style-type: none"> Front panel header
Video/Display	<ul style="list-style-type: none"> 2x DP (Display Port), 1x DVI-I from Intel® HD Graphics, 1x VGA from AST2400 3x Independent Displays from Processor Graphics, VGA is from AST2400 for BMC KVM
Serial Port / Header	<ul style="list-style-type: none"> 2x serial headers
SuperDOM	<ul style="list-style-type: none"> 1x <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 5 fan headers supporting up to 5 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

LEDs	<ul style="list-style-type: none"> Hard drive activity LED 2x Network activity LEDs System Overheat LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 1x PCI-E 3.0 x16 FH, FL slot
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 4x 3.5" Hot-swap SATA3 drive bays
Backplane	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
System Cooling	
Fans	<ul style="list-style-type: none"> 3x 4cm internal 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	 <ul style="list-style-type: none"> 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-X11SSZ-QF	1	Super X11SSZ-QF 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-1821-QRG	1	5019S-M2 QRG
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 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