

SuperServer 1019S-M2



Integrated Board



[./products/motherboard/Core/Q170/X11SSZ-](https://products/motherboard/Core/Q170/X11SSZ-)

[QF.cfm](https://products/motherboard/Core/Q170/X11SSZ-QF.cfm)

[Super X11SSZ-QF](https://products/motherboard/Core/Q170/X11SSZ-QF.cfm)

Views: | [Angled View](#) ([./a_images/products/views/1019S-M2_angle.jpg](#)) | [Top View](#) ([./a_images/products/views/1019S-M2_top.jpg](#)) | [Front View](#) ([./a_images/products/views/1019S-M2_front.jpg](#)) | [Rear View](#) ([./a_images/products/views/1019S-M2_rear.jpg](#)) |

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Key Applications

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

Key Features

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

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

Specifications

Product SKUs

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

Motherboard

Super X11SSZ-QF
(</products/motherboard/Core/Q170/X11SSZ-QF.cfm>)

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)

Chassis

Form Factor
1U Rackmount
Model
CSE-514-407C-1P (</products/chassis/1U/514/SC514-407C-1P.cfm>)

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
+5V standby
3 Amp
DC Output
+12V
33 Amp

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 serial headers

SuperDOM
1 [SuperDOM \(/SATADOM/\)](#) (Disk on Module) port with built-in power

System BIOS
BIOS Type
128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features
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

Management
Software
AMT
IPMI 2.0 with KVM support
NMI
vPro
Watch Dog

[SuperDoctor® 5 \(/products/nfo/SMS_SD5.cfm\)](#)

Power Configurations
ACPI Power Management
Keyboard Wakeup from Soft-Off
CPU Fan auto-off in sleep mode
Power-on mode for AC power recovery

Certification

<http://www.pluginloadsolutions.com/80PlusPowerSupply?id=69&type=2>. **Platinum Level**

PC Health Monitoring
Voltage
Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory Voltages.

FAN
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

Temperature
Monitoring for CPU and chassis environment
CPU thermal trip support
I²C 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

Operating Environment / Compliance
RoHS
RoHS Compliant

Environmental Spec.
Operating Temperature:
0°C to 40°C (32°F to 104°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:

Parts List

[Global SKU \(/zh_tw/products/SMC_global_skus\)](#)