Supermicro SuperServer SYS-1019S-M2 1U UP 2xSFF 2xGbE FIX PSU

Part number: SYS-1019S-M2

Chassis Form Factor	Rack 1U
CPU Socket	LGA 1151 (Socket H4)
# of CPU sockets	1
Supported CPU's	Intel 7th/6th Gen.Core i7/i5/i3
Max CPU TDP	80 W
Chipset	Intel Q170
Memory Type	DDR4 non-ECC UDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	4
Max Memory Size	64 GB
Integrated GPU	Aspeed AST2400
# of 2.5 fixed bays	2
# of PCIe x16 3.0	1
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 3.0 (header) 2 x USB 2.0 (rear) 6 x USB 2.0 (header) 1 x USB 2.0 Type A
# of SATA Ports	4
Storage Controllers	4 x AHCI iSATA 6Gb/s
Integrated RAID	0,1,5,10
# of Serial Ports	2 x Fast UART 16550 (header)
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i219LM Port Gigabit Ethernet Intel i210AT Port Gigabit Ethernet
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2400
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Fixed
PSU Wattage	400W
PSU Certification	80+ Platinum
Chassis Dimensions	437 x 43 x 429mm

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
Serial Port / Header	• 2 serial headers
SuperDOM	• 1 SuperDOM (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
Power Configurations	• ACPI Power Management • Keyboard Wakeup from Soft-Off • CPU Fan auto-off in sleep mode • Power-on mode for AC power recovery

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 Overheat 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
Certification	**Platinum Level**

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 • 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	• CPU / System Overheat 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 35°C (32°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)

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