Supermicro SuperServer SYS-5018R-M 1U UP 4xLFF 2xGbE FIX PSU

Part number: SYS-5018R-M

Chassis Form Factor	Rack 1U
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	1
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3 Intel Xeon E5-1600v3
Max CPU TDP	145 W
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	8
Max Memory Size	1024 GB
Integrated GPU	Aspeed AST2400
# of 2.5 fixed bays	2 (optional)
# of 3.5 hot-swap bays	4
Backplanes	SAS/SATA
# of PCIe x16 3.0	1
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 2.0 (rear) 2 x USB 2.0 (header)
# of SATA Ports	10
# of Super DOM	2
Storage Controllers	10 x AHCI iSATA 6Gb/s
Integrated RAID	0,1,10
# of Serial Ports	1 x Fast UART 16550 (rear) 1 x Fast UART 16550 (header)
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i350 Dual 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	350W
PSU Certification	80+ Gold
Rack Rails	26" - 33.5" (CSE-PT52)
Chassis Dimensions	437 x 43 x 503mm

Product SKUs

SYS-5018R-M	• SuperServer 5018R-M (**Black**)

Motherboard

Super X10SRi-F

Processor

CPU	• Intel® Xeon® processor E5-2600 **v4**†/ v3, E5-1600 **v4**†/ v3 family (up to 145W TDP **) • Single Socket R3 (LGA 2011)
Core / Cache	• Up to **22 Cores**† / Up to **55MB**† Cache
Note	† BIOS version 2.0 or above is required
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity	• 8x 288-pin DDR4 DIMM slots • Up to 1TB ECC 3DS LRDIMM • Up to 512GB ECC LRDIMM • Up to 256GB ECC RDIMM
Memory Type	• **2400**†/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs
DIMM Sizes	• 3DS LRDIMM: 128GB • LRDIMM: 64GB, 32GB • RDIMM: 32GB, 16GB, 8GB, 4GB
Memory Voltage	• 1.2 V
Error Detection	• Corrects single-bit errors • Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	• Intel® C612 chipset
SATA	• SATA3 (6Gbps) via C612 controller • RAID 0, 1, 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® i350-AM2 Dual Port Gigabit Ethernet • Virtual Machine Device Queues reduce I/O overhead • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output • 1x Realtek RTL8201N PHY (dedicated IPMI)
Video	• ASPEED AST2400 BMC

Input / Output

SATA	• 10x SATA3 (6Gbps) ports
LAN	• 2x RJ45 Gigabit Ethernet LAN ports • 1x RJ45 Dedicated IPMI LAN port
USB	• 2x USB 3.0 ports (2 rear) • 4x USB 2.0 ports (2 rear + 2 front)
Video	• 1x VGA port
Serial Port / Header	• 1x Fast UART 16550 serial port • 1x internal header
DOM	• 2x SuperDOM (Disk on Module) ports

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 • Chipkill support • RoHS, Pb-free Gold

Chassis

Form Factor	• 1U Rackmount
Model	• CSE-813MTQ-350CB

Dimensions and Weight

Height	• 1.7" (43mm)
Width	• 17.2" (437mm)
Depth	• 19.8" (503mm)
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
LEDs	• Power LED • Hard drive activity LED • 2x Network activity LEDs • System Overheat LED

Expansion Slots

PCI-Express	• 1x PCI-E 3.0 x16 slot

Drive Bays

Hot-swap	• 4x 3.5" Hot-swap drive bays

Peripheral Drives

Optional	• 2x 2.5" Fixed drives internal

Backplane

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

System Cooling

Fans	• 4x 40x28mm 4-pin PWM Cooling Fans

Power Supply

350W AC power supply w/ PFC

AC Voltage	• 100-240 V, 50-60 Hz, 4.2-1.8 Amp
+5V	• 18 Amp
+5V standby	• 3 Amp
+12V	• 29 Amp
+3.3V	• 15 Amp
Certification	**Gold Certified** **[Test Report]**

System BIOS

BIOS Type	• 8MB SPI Flash EEPROM with AMI BIOS
BIOS Features	• DMI 2.3 • PCI 2.3 • ACPI 1.0 / 2.0 • USB Keyboard support • SMBIOS 2.3

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)

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