

SuperServer 5018R-MR



Integrated Board



Super X10SRI-F

Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. 4x 3.5" Hot-swap SATA3 drive bays
4. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 8x DIMM slots
5. 1x PCI-E 3.0 x16 slot
6. Intel® i350-AM2 Dual port GbE LAN
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0, 4x USB 2.0
9. 400W Redundant Power Supplies
Platinum Level Certified



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[Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References Guide](#)
▶ [Drive Options](#) ▶ [Network Card \(AOC\) Matrix](#)

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

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

SYS-5018R-MR ■ SuperServer 5018R-MR (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, 5, 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

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-813MFTQ-R407CB**

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 19.85" (503mm)

Package ■ 8" (H) x 24" (W) x 28" (D)

Weight ■ Gross Weight: 31.4 lbs (14.3 kg)
■ Net Weight: 18.6 lbs (8.5 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 Information 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 ■ Optional slim optical device bay, optional FDD/USB bay
■ 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

AC/DC240V Input Redundant Power Supplies

400W 1U Redundant Power Supplies with PMbus

Total Output Power ■ 400W

Dimension (W x H x L) ■ 54.5 x 40 x 220 mm

Input ■ 100 - 240Vac / 6.0 - 3.0A / 50-60Hz
■ 200 - 240Vdc / 3.4 - 3.2A (CCC Only)

+12V ■ Max: 33A / Min: 0.5A

+5V sb ■ Max: 3A / Min: 0A

Output Type ■ Gold Finger Connector Mating with Molex 45984-4343

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) ■ 4x USB 2.0 ports (2 rear + 2 header)
Video	<ul style="list-style-type: none"> ■ 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> ■ 1x Fast UART 16550 serial port ■ 1x internal header
DOM	<ul style="list-style-type: none"> ■ 2x SuperDOM (Disk on Module) ports

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 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	<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"> ■ System Information LED ■ Suspend static indicator LED ■ UID/Remote UID
Other Features	<ul style="list-style-type: none"> ■ Chassis intrusion detection ■ Chassis intrusion header ■ RoHS, Halogen Free

Certification



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-X10SRi-F	1	Super X10SRi-F Motherboard
	CSE-813MFTQ-R407CB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	4-port 1U TQ backplane (W/ enclosure management), support up to 4x 3.5-inch SAS/SATA HDD
Cable 1	CBL-0157L	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,40CM,28AWG
Cable 2	CBL-0186L	1	SATA,INT,ROUND,SET OF 4,ST-RA 56/45.5/35/23CM,26AWG
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
Manual	MNL-1605-QRG	1	SYS-5018R-M/MR, QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH
FAN	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan

Optional Parts List

	Part Number	Qty	Description
3.5" to 2.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-swap Gen-4 2.5" to 3.5" HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD mounting kit
Internal 2.5" HDD Tray (FDD slot)	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD
Internal 2.5" HDD Tray (DVD slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" slim HDD
Cable for internal HDD	CBL-0484L	2	55cm 30AWG SATA straight to straigh cable
	CBI-0289L	1	Y split, big 4 pin to two RA SATA power estension 30cm
Hot-swap 2.5" kit (FDD slot)	MCP-220-81504-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim FDD form factor
Hot-swap 2.5" kit (DVD slot)	MCP-220-81506-0N	1	Single slim 2.5" SAS3 (12Gb/s) hot swap in slim DVD form factor
Cooling Fan	FAN-0154L4	-	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan
Storage Controller card & cable	AOC-S3108L-H8iR & 1x CBL-SAST-0811	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3108L-H8iR-16DD & 1x CBL-SAST-0811	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 1x CBL-SAST-0811	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 1x CBL-SAST-0811	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard Lp, 4x 10GbE SFP+, PCI-E x8, Broadcom
	AOC-STGS-i2T	-	BCM57840S
	AOC-S25G-b2S	-	Standard Lp, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414 Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX

Front Bezels	CSE-PTFB-813LB	-	Black front bezels
	CSE-PTFB-813-02B	-	Black Front Bezel w/ Round Venting Holes
TPM security module	AOM-TPM-9665V	1	TPM 2.0, vertical form factor
	AOM-TPM-9655V	1	TPM 1.2, vertical form factor
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	QSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)