

SuperServer 5019C-MR



Integrated Board



Super X11SCM-F

**Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |**

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

Key Applications

**General Purpose, SMB, Web Hosting
Application and data serving
Archiving, Mail/Finance, Security**

Key Features

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i3 Processors, Intel® Celeron®, Intel® Pentium®
2. Intel® C246 chipset
3. Up to 128GB ECC UDIMM, up to DDR4-2666MHz; 4 DIMM slots
4. 1 PCI-E 3.0 x16 slot
5. 4 Hot-swap 3.5" drive bays
6. **M.2 Interface:**
1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
M.2 Form Factor: 2280/22110
M.2 Key: M-Key
7. 2 GbE LAN ports, 1 dedicated IPMI LAN
8. 2 USB 3.1 (rear), 2 USB 2.0 (rear)
9. 1 VGA, 1 COM (header), 1 TPM header
10. 400W High efficiency (96%)
Redundant PSU; Platinum Level

Specifications

Product SKUs

SYS-5019C-MR ■ SuperServer 5019C-MR (Black)

Motherboard

Super X11SCM-F

Processor

CPU ■ Single Socket H4 (LGA 1151), CPU TDP support up to 95W
 ■ Support Intel® Xeon® processor E-2100 / E-2200 series, 8th/9th Gen. Intel® Core™ i3 / Pentium® / Celeron® Processors

Cores ■ 8 cores, 16 threads

Note ■ BIOS 1.0b or above is required to support Intel® Xeon® processor E-2200 series

System Memory

Memory Capacity ■ 4 DIMM slots
 ■ Up to 128GB Unbuffered ECC UDIMM
 ■ Up to DDR4-2666MHz

Memory Type ■ 2666/2400/2133MHz ECC DDR4 SDRAM

DIMM Sizes ■ 32GB, 16GB, 8GB, 4GB

On-Board Devices

Chipset ■ Intel® C246 chipset

SATA ■ SATA3 (6Gbps) via Intel C246 controller
 ■ RAID 0, 1, 5, 10 support

IPMI ■ ASPEED AST2500

Network Controllers ■ Dual LAN with Intel® I210-AT

Video ■ ASPEED AST2500 BMC

Input / Output

SATA ■ 6 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10

LAN ■ 2 RJ45 Gigabit Ethernet LAN ports
 ■ 1 RJ45 Dedicated IPMI LAN port

USB ■ 2 USB 3.1 ports (rear)
 ■ 2 USB 2.0 ports (rear)

Video ■ 1 VGA port

Serial Port / Header ■ 1 COM port (header)

TPM ■ 1 TPM 2.0 Header

System BIOS

BIOS Type ■ UEFI 256Mb

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-813MFTQC-R407CB**

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 19.85" (503mm)

Package ■ 8.5" (H) x 23.4" (W) x 29.7" (D)

Weight ■ Gross Weight: 34 lbs (15.42 kg)
 ■ Net Weight: 21 lbs (9.53 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power LED
 ■ Hard drive activity LED
 ■ Network activity LEDs
 ■ System Information LED

Expansion Slots

PCI-Express ■ 1 PCI-E 3.0 x16 slot

M.2 ■ M.2 Interface:
 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
 ■ M.2 Form Factor: 2280/22110
 ■ M.2 Key: M-Key

Drive Bays

Hot-swap ■ 4 Hot-swap 3.5" drive bays

System Cooling

Fans ■ 4x 40x28mm PWM 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

Certification ■  **Platinum Level Certified [Test Report]**

PC Health Monitoring

BIOS Features

- ACPI 6.0
 - SMBIOS 2.7
 - Plug and Play (PnP)
 - RTC (Real Time Clock) Wakeup
 - UEFI 2.7
 - USB Keyboard support
 - PCI 3.0
-

Management

Software

- Intel® Node Manager
 - IPMI 2.0
 - NMI
 - SSM, SPM, SUM
 - Watch Dog
 - SuperDoctor® 5
-

CPU

- Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
-

FAN

- 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
-

Temperature

- Monitoring for CPU and chassis environment, CPU thermal trip support, Thermal Monitor 2 (TM2) support, PECI
-

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)
-

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SCM-F	1	Super X11SCM-F Motherboard
	CSE-813MFTQC-R407CB	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0488L	1	SATA,INT,ROUND,ST-RA,55CM,30AWG
Cable 2	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
Cable 3	CBL-SAST-0639	2	SATA,INT,ROUND,ST-RA,31CM,30AWG
Cable 4	CBL-SAST-0641	1	SATA,INT,ROUND,ST-RA,45CM,30AWG
Parts	MCP-260-00131-0N	1	1U I/O Shield for X11SCL-LN4F with EMI Gasket
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-2109-QRG	1	5019C-M/MR Quick Reference Guide
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0049P	1	1U Passive Enhanced Performance CPU Heat Sink for Intel Socket H Series Processors
* 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
* Power Distributor	PDB-PT813M-2424	1	Power Distributor With 24pin for SC813M
* Cable 5	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
* Cable 6	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,13A,125V,RoHS/REACH
* Peripheral Drive 1	CSE-PT93L-B	1	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS
* FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
* Front Panel	FPB-FP813-D	1	Front control board dual color for SC815,SC813M (C)
* Drive Tray(s)	MCP-220-00075-0B	4	Black gen 5.5 hot-swap 3.5"; HDD tray
* Rear Window	MCP-240-00086-0N	1	STD rear window for SC113 redundant PWS
* Power Supply	MCP-250-00016-0V	1	Redundant Silver plastic PDB cover for SC813M,113M
* Parts	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
* Rail Set	MCP-290-00102-0N	1set	Outer rail, quick-release type, 25.6" to 33.05"
* Rail Set	MCP-290-00108-0N	1set	Inner rail, front, short, quick-release type
* Rail Set	MCP-290-00110-0N	1set	Inner rail, extension (quick) for 1U 17.2
* Fan Holder	MCP-320-00031-0B	1	Fan tray for six 40x28 fans(SC813M/113M)
* Parts	MCP-340-00001-01	2	Dummy fan 40x28mm

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

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 straight cable
	CBI-0289L	1	Y split, big 4 pin to two RA SATA power extension 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
USB/COM port tray (FDD slot)	MCP-220-00129-0B	1	Black 2x USB3.0/COM port tray in slim FDD form factor
Cooling Fan	FAN-0154L4	-	40x40x28mm 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 BCM57840S
	AOC-STGS-i2T	-	Standard Lp, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
	AOC-S25G-b2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414
	AOC-S25G-m2S	-	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-9670V	1	TPM 2.0, vertical form factor
	AOM-TPM-9671V	1	TPM 1.2, vertical form factor
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)