

SuperServer 5019C-WR



Integrated Board



Super X11SCW-F

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

[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) | [▶ Tested M.2 List](#) | [▶ Manuals](#) | [▶ OS Certification Matrix](#) | [▶ Quick-References Guide](#) | [▶ Drive Options](#) | [▶ Network Card \(AOC\) Matrix](#)

Key Applications

**HA, High flexibility, VM, Communication
Application and data serving
Appliance Server**

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 or 2 PCI-E x8, 1 PCI-E 3.0 x4 (in x8) 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: 2260/2280/22110
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, 2 COM, 1 TPM header
10. 500W High efficiency (96%) Redundant PSU, 54.5mm wide; Platinum Level

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

Specifications

Product SKUs

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

Motherboard

Super X11SCW-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), 1 COM port (rear)

TPM ■ 1 TPM 2.0 Header

System BIOS

BIOS Type ■ UEFI 256Mb

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-815TQC-R504WB2**

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 25.6" (650mm)

Package ■ 8.5" (H) x 23.5" (W) x 33.7" (D)

Weight ■ Gross Weight: 38 lbs (17.24 kg)
 ■ Net Weight: 25 lbs (11.34 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button
 ■ UID button

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

Expansion Slots

PCI-Express ■ 1 PCI-E 3.0 x16 or 2 PCI-E x8 slots
 ■ 1 PCI-E 3.0 x4 (in x8) slot

M.2 ■ M.2 Interface:
 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
 ■ M.2 Form Factor: 2260/2280/22110
 ■ M.2 Key: M-Key

Drive Bays

Hot-swap ■ 4 Hot-swap 3.5" drive bays

System Cooling

Fans ■ 5x 4cm heavy duty counter-rotating fans with optimal fan speed control

Power Supply

500W Redundant Power Supplies with PMBus

Total Output Power ■ 500W: 100 – 240Vac

Dimension (W x H x L) ■ 54.5 x 40.25 x 320 mm

Input ■ 100-240Vac, 50-60Hz, 6.1-2.6A

+12V ■ Max: 42A / Min: 0.5A

+5Vsb ■ Max: 4A / Min: 0A

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

With Power Distributor ■ +5V: 25A
 ■ +3.3V: 12A
 ■ -12V: 0.6A

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

Certification

Platinum Certified
[[Test Report](#)]

PC Health Monitoring**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-X11SCW-F	1	Super X11SCW-F Motherboard
	CSE-815TQC-R504WB2	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 2	CBL-0488L	2	SATA,INT,ROUND,ST-RA,55CM,30AWG
Cable 3	CBL-0489L	1	SATA,INT,ROUND,ST-RA,70CM,30AWG
Cable 4	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
Cable 5	CBL-SAST-0641	1	SATA,INT,ROUND,ST-RA,45CM,30AWG
FAN 1	FAN-0156L4	2	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH
Air Shroud	MCP-310-19002-0N	1	SC815/113/116 Intel DP X9, X8 PC air shroud, 12x13MB
Manual	MNL-2108-QRG	1	5019C-WR Quick Reference Guide
Riser Card	RSC-R1UW-E8R	1	1U RHS WIO Riser card with one PCI-E x8 slot
Riser Card	RSC-W-68	1	1U LHS WIO w/ 2 PCI-E x8 slots or PCI-E x16 slot
Heatsink / Retention	SNK-P0049P	1	1U Passive Enhanced Performance CPU Heat Sink for Intel Socket H Series Processors
* Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide
* Power Distributor	PDB-PT112-S2424	1	WIO X11 Support,PDB-PT112-S2424 is based on PDB-PT112-2424
* Cable 6	CBL-0335L	1	CBL,FRONT CNTL,20 TO 20 PIN,RA,RND TUBE,73CM,28AWG
* Cable 7	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,13A,125V,RoHS/REACH
* Fan Holder	CSE-PT0135	1	FAN HOLDER FOR SIX 40X56MM COUNTER ROTATING FANS
* Peripheral Drive 1	CSE-PT93L-B	1	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS
* FAN 2	FAN-0156L4	3	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH
* Front Panel	FPB-FP815U	1	815 UIO front control board (U)
* Parts	MCP-120-00030-0N	1	Blank LP L-bracket (1 raw of capsule hole)
* Parts	MCP-120-00053-0N	2	Blank FH L bracket w/o SCSI cutout for SC825,836,846,743
* Drive Tray(s)	MCP-220-00075-0B	4	Black gen 5.5 hot-swap 3.5"; HDD tray
* Rear Window	MCP-240-00098-0N	1	WIO rear window for SC113,SC116, SC815 Redundant PWS
* Power Supply	MCP-250-81502-0N	1	SC815 Redundant Power Distributor Cover
* Rail Set	MCP-290-00054-0N	1set	Rail set, quick/quick, optional for 1U 17.2
* Fan Holder	MCP-340-00035-0B	3	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)

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
Cooling Fan	FAN-0156L4	-	40x40x56mm 13K-11K RPM Counter-rotating Fan
Storage Controller card & cable	AOC-S3108L-H8iR & 1x CBL-SAST-0699	-	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-0699	-	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-0699	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 1x CBL-SAST-0699	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
CacheVault	BTR-CV3108-1U1	-	CacheVault for Broadcom 3108 with SuperCap mounting in 1Y 40x56 fan tray
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108 with SuperCap mounting bracket for PCI-E location
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	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	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)