

SuperServer 5019S-WR



Integrated Board



Super X11SSW-F

Views: | [Angled View](#) | [Top 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 / Features

Mainstream, WIO

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C236 chipset
3. 4 Hot-swap 3.5" SATA3 drive bays
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
5. 1 PCI-E 3.0 x16 or 2 PCI-E 3.0 x8 Left Riser slot; 1 PCI-E 3.0 x4 (in x8 slot)
6. 2 GbE ports with Intel® i210-AT, 1 dedicated IPMI port
7. 1 VGA, 1 COM, 2 USB 3.0, 2 USB 2.0
8. 500W Redundant Platinum Level power supplies

Specifications

Product SKUs

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

Motherboard

Super X11SSW-F

Processor

CPU

- Single Socket H4 (LGA 1151) supports:
 - Intel® Xeon® processor E3-1200 v6/v5,
 - Intel® 7th/6th Gen Core™ i3,
 - Intel® Pentium®,
 - Intel® Celeron® processors
- CPU TDP up to 80W

Note BIOS version 2.0 or above is required to support Intel® Xeon® Processor E3-1200 v6 series or 7th Generation Intel® Core™ Processors

System Memory

Memory Capacity

- 4x 288-pin DDR4 DIMM slots
- Up to 64GB DDR4 ECC UDIMM

Memory Type

- 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs

DIMM Sizes

- 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® C236 chipset

SATA

- SATA3 (6Gbps) via C236 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

- Dual Intel® I210-AT Gigabit Ethernet LAN ports
- Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Video

- ASPEED AST2400 BMC

Input / Output

SATA

- 6 SATA3 (6Gbps) ports

LAN

- 2 RJ45 Gigabit Ethernet LAN ports
- 1 RJ45 dedicated IPMI LAN port

USB

- 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
- 6 USB 2.0 ports (2 rear + 4 headers)

Video

- 1 VGA port

Chassis

Form Factor

- 1U Rackmount

Model

- CSE-815TQC-R504WB**

Dimensions and Weight

Height

- 1.7" (43mm)

Width

- 17.2" (437mm)

Depth

- 25.6" (650mm)

Package

- 23.5" (W) x 8.5" (H) x 33.7" (L)

Weight

- Net Weight: 24 lbs (10.9 kg)
- Gross Weight: 35 lbs (15.9 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
- Information LED (temp., status)

Expansion Slots

PCI-E

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

M.2

- 1x M.2 Interface: PCI-E 3.0 x4 and SATA
- Form Factor: 2260, 2280, 22110
- Key: M-Key
- Double Height Connector

Drive Bays

Hot-swap

- 4 Hot-swap 3.5" SATA3 drive bays

Backplane

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

System Cooling

Fans

- 4x 40x56mm counter-rotation fans
- Optional 2x 40x56mm counter-rotation fans

Power Supply with Power Distributor

500W high-efficiency (94+%) power supply w/ PMBus

With Power Distributor

- +5V: 25 Amp
- +3.3V: 12 Amp
- 12V: 0.6 Amp

Certification



Platinum Certified
[Test Report]

System BIOS

Serial Port / Header	<ul style="list-style-type: none"> 2 COM ports (1 rear, 1 header)
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SuperDOM	<ul style="list-style-type: none"> 2 <u>SuperDOM</u> (Disk on Module) ports with built-in power
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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.
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FAN	<ul style="list-style-type: none"> Total of 6 fan headers supporting up to 6 fans 3 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
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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
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LED	<ul style="list-style-type: none"> System Information LED Suspend static indicator LED UID/Remote UID
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Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header RoHS, Halogen Free
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BIOS Type	<ul style="list-style-type: none"> 8MB SPI Flash EEPROM with AMI BIOS
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SSW-F	1	Super X11SSW-F Motherboard
	CSE-815TQC-R504WB	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
Cable 2	CBL-CDAT-0662	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
FAN	FAN-0156L4	4	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-1798-QRG	1	5019S-WR,QRG,HF,RoHS/REACH
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-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide

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-SBT4	1	TEAC slim DVD-ROM SATA drive
	DVM-TEAC-DVD-SBT4	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-9665V	1	TPM 2.0, vertical form factor
	AOM-TPM-9655V	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> • <i>eStore</i>	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)