

SuperServer 1019S-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

Appliance Server, WIO
Embedded Applications

Key Features

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. 2 fixed 2.5" 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. 400W Redundant Platinum Level power supplies

Specifications

Product SKUs

SYS-1019S-WR	■ SuperServer 1019S-WR (Black)
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Motherboard

Super X11SSW-F

Processor/Cache

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-514-R407W

Dimensions and Weight

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 16.9" (429mm)
Package	■ 23.8" (W) x 8" (H) x 27" (L)
Weight	■ Gross Weight: 27 lbs (12.25 kg) ■ Net Weight: 15.5 lbs (7.03 kg)
Available Colors	■ Black

Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power LED ■ Hard drive activity LED ■ 2 Network activity LEDs ■ System Information LED ■ Information LED (temp., status)

Expansion Slots

PCI-Express	■ Left riser slot: 1 PCI-E 3.0 x16 or 2 PCI-E 3.0 x8 ■ 1 PCI-E 3.0 x4 (in x8 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

Internal	■ 2 fixed 2.5" drive bays
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System Cooling

Fans	■ 4x 40x56mm PWM Cooling Fans ■ 2x Optional fans for AOC cooling
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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

Serial Port / Header	2 COM ports (1 rear, 1 header)
SuperDOM	2 <u>SuperDOM</u> (Disk on Module) ports with built-in power

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 4 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	- System Information LED - Suspend static indicator LED - UID/Remote UID
Other Features	- Chassis intrusion detection - Chassis intrusion header - RoHS, Halogen Free

Certification



Platinum Level Certified
[[Test Report](#)]

System BIOS

BIOS Type	8MB SPI Flash EEPROM with AMI BIOS
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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-X11SSW-F	1	Super X11SSW-F Motherboard
	CSE-514-R407W	1	1U Chassis
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
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0227L	1	SATA, INT, ROUND, ST-RA, 48CM, 26AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1880-QRG	1	X11SSW-F, CSE-514-R407W
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-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH
Fan	FAN-0156L4 or FAN-0086L4	4	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH 40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M

Optional Parts List

	Part Number	Qty	Description
SATA cable for 2nd HDD	CBL-0227L	1	48cm 30AWG SATA straight to RA cable
GPU Optional Parts	FAN-0141L4	2	40x40x56mm 20.5K RPM, Counter-rotation fan
	CBL-0424L	1	8 pin to Daul 6+2 pin GPU power extension, 40cm
	CBL-0296L	1	4pin to 4pin fan extension cord for PWM fan 23cm
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
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> • eStore	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)