

SuperServer 1018R-WC0R



Integrated Board



Super X10SRW-F

Available Colors:

Black



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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 Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 and E5-1600 v4[†]/ v3 family
2. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 8x DIMM slots
3. 2x PCI-E 3.0 x16 FH slots and 1x PCI-E 3.0 x8 (in x16) HH slot
4. Intel® i350-AM2 Dual port GbE LAN
5. Integrated IPMI 2.0 and KVM with Dedicated LAN
6. 8x 2.5" Hot-swap SAS3/SATA3 + 2x 2.5" Hot-swap SATA3 HDD bays
Default support 8+2 SATA3 HDD
7. 750W Redundant Power Supplies
Platinum Level Certified

Specifications

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

SYS-1018R-WC0R ■ SuperServer 1018R-WC0R (Black)

Motherboard

Super X10SRW-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 with 10/100/1000Mbps

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

VGA ■ ASPEED AST2400 BMC

Input / Output

SATA ■ 10x SATA3 (6Gbps) ports
■ SATA DOM Power Connector

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-116AC-R706WB**

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 23.5" (597mm)

Package ■ 8" (H) x 24" (W) x 32" (D)

Weight ■ Gross Weight: 40 lbs (18.1 kg)
■ Net Weight: 25 lbs (11.3 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 ■ 2x PCI-E 3.0 x16 Full-height Full-length slots
■ 1x PCI-E 3.0 x8 (in x16) Half-height Half-length slot

Drive Bays

Hot-swap ■ 8x 2.5" Hot-swap SAS3/SATA3 HDD bays + 2x 2.5" Hot-swap SATA3 (total of 10)

Backplane

SAS3/SATA3 HDD Backplane
(SAS support requires optional SAS controller + cables)

System Cooling

Fans ■ 4x 40x56mm 4-pin PWM Cooling Fans
■ 1x Additional fan to cool add-on cards

AC/DC240V Input Redundant Power Supply

700W/750W Redundant Power Supplies with PMBus

Total Output Power ■ 700W/750W


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

Input ■ 100 - 140Vac / 8 - 6A / 50-60Hz
■ 200 - 240Vac / 4.5 - 3.8A / 50-60Hz
■ 200 - 240Vdc / 4.5 - 3.8A (CCC Only)

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 (rear) 2x USB 2.0 ports (rear) 2x USB 3.0 ports (front)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x COM ports (1 rear, 1 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, +12V, +3.3V, +5V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	<ul style="list-style-type: none"> 6x 4-pin fan headers 6x fans w/ tachometer status monitoring Status monitor for speed control Status monitor for on/off control Support 3-pin fans (w/o speed control) Low noise fan speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU & chassis environment CPU thermal trip support FC temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> System Information LED +5V Standby alert LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header

+12V	<ul style="list-style-type: none"> Max: 58A / Min: 0.5A (100 - 140Vac) Max: 62A / Min: 0.5A (200 - 240Vac) Max: 62A / Min: 0.5A (200 - 240Vdc) (CB/CCC Only)
+5V sb	<ul style="list-style-type: none"> Max: 3A / Min: 0A
Output Type	<ul style="list-style-type: none"> Gold Finger Connector Mating with Molex 45984-4343
Certification	 Platinum Certified [Test Report]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 64Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 DMI 2.3 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.7.1 UEFI 2.3.1 RTC (Real Time Clock) Wakeup

Management

Software	<ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v2.0 with KVM support <u>SuperDoctor® III</u> Watch Dog NMI
Power Configurations	<ul style="list-style-type: none"> ACPI / ACPM Power Management Main Switch Override Mechanism Power-on mode for AC power recovery Internal/External modem ring-on

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-X10SRW-F	1	Super X10SRW-F Motherboard
	CSE-116AC-R706WB	1	1U Chassis
Backplane	BPN-SAS3-116A	1	10-port 1U SAS3 12Gbps direct-attached backplane, support up to 10x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0207L	2	SATA,INT,ROUND,ST-ST,59CM,26AWG
Cable 2	CBL-0157L	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,40CM,28AWG
Cable 3	CBL-SAST-0591	2	MINI SAS HD-4 SATA,6G,INT,RF,Cross Over,75CM,75CM SB,30AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1608-QRG	1	SYS-1018R-WC0R, QRG,HF,RoHS/REACH
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
Riser Card	RSC-R1UW-E8R	1	1U RHS WIO Riser card with one PCI-E x8 slot
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-706P-1R	2	1U 750W redundant power width 54.5mm(Platinum),HF,RoHS/REACH,PBF
Fan	FAN-0101L4	5	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808

Optional Parts List

	Part Number	Qty	Description
Cooling Fan	FAN-0101L4	-	40x40x56mm 14.4K-10.7K RPM Counter-rotating Fan
Storage Controller card & cable	AOC-S3108L-H8iR & 2x CBL-SAST-0593	-	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 & 2x CBL-SAST-0593	-	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 & 2x CBL-SAST-0593	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 2x CBL-SAST-0593	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
	AOC-S3008L-L8e & 2x CBL-SAST-0593	-	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	MCP-210-11601-0B	1	Black front bezels
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)