

SuperServer 1018R-WR



Integrated Board



Super X10SRW-F

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

Appliance Server, WIO Embedded Applications

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 Left Riser slot;
1x PCI-E 3.0 x8 LP slot
4. Intel® i350-AM2 Dual port GbE LAN
5. Integrated IPMI 2.0 and KVM with Dedicated LAN
6. 2x 2.5" fixed drive bays
7. 400W Redundant Power Supplies
Platinum Level Certified

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

Specifications

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

SYS-1018R-WR ■ SuperServer 1018R-WR (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-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
■ 2x Network activity LEDs
■ System Information LED

Expansion Slots

PCI-Express ■ Left Riser: 2x PCI-E 3.0 x16 slots
■ 1x PCI-E 3.0 x8 LP slot

Drive Bays

Internal ■ 2x 2.5" fixed drive bays

System Cooling

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

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](#)]

System BIOS

BIOS Type ■ 128Mb SPI Flash EEPROM with AMI BIOS

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 4x 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

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
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Management

Software	<ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v2.0 with KVM support SuperDoctor® 5 Watch Dog
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-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-1879-QRG	1	X10SRW-F, CSE-514-R407W
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-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	1	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)