

SuperServer 5018R-WR



Integrated Board



Super X10SRW-F

Available Colors:

Black



Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. 4x 3.5" Hot-swap SATA3 drive bays
4. 1x Slim DVD-ROM drive bay
5. Up to 512GB ECC DDR4 2133MHz LRDIMM; 8x DIMM slots
6. 2x PCI-E 3.0 x16 FHFL, 1x PCI-E 3.0 x8 LPHL (3x AOC slots total)
7. Intel® i350-AM2 Dual port GbE LAN
8. Integrated IPMI 2.0 and KVM with Dedicated LAN
9. I/O ports: 1x VGA, 2x COM, 2x USB 3.0, 2x USB 2.0
10. 500W Redundant Power Supplies **Platinum Level (94%+)**

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

Specifications

Product SKUs

- SYS-5018R-WR** ■ SuperServer 5018R-WR (**Black**)

Motherboard

Super X10SRW-F

Processor

- CPU**
- Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP **)
 - Single Socket R3 (LGA 2011)

- Core / Cache**
- Up to 18 Cores / Up to 45MB Cache

- 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 512GB DDR4 ECC LRDIMM
 - Up to 256GB DDR4 ECC RDIMM
- Memory Type**
- 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin gold-plated DIMMs

Chassis

- Form Factor**
- 1U Rackmount

- Model**
- **CSE-815TQ-R500WB**

Dimensions

- Height**
- 1.7" (43mm)

- Width**
- 17.2" (437mm)

- Depth**
- 25.6" (650mm)

- Weight**
- Net Weight: 23.5 lbs (10.7 kg)
 - Gross Weight: 36 lbs (16.3 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 Overheat LED

Expansion Slots

- PCI-Express**
- Total of 3 Add-on card slots:
 - 2x PCI-E 3.0 x16 (FH, FL) slots

DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via C612 controller RAID 0, 1, 10 support; 5 supported under Windows
IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

SATA	<ul style="list-style-type: none"> 4x SATA3 (6Gbps) ports
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 (2 rear) 2x USB 2.0 ports (2 rear)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 serial port 1x internal 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, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
FAN	<ul style="list-style-type: none"> Total of 6 fan headers supporting up to 6 fans 6 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	<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
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header Chipkill support RoHS, Halogen Free

- 1x PCI-E 3.0 x8 (LP, HL) slot

Drive Bays

- Hot-swap**
 - 4x 3.5" Hot-swap drive bays

Peripheral Drives

- Optional**
 - 1x slim DVD-ROM drive bay

Backplane

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

System Cooling

- Fans**
 - 4x 40x28mm 4-pin PWM Cooling Fans

Power Supply

500W Redundant High-Efficiency Power Supplies w/ Power Distributor, PMBus 1.2, I²C, and PFC

- AC Input**
 - 100-240V, 50-60Hz, 6.2-2.6A

- DC Output**
 - +5V standby: 3A
 - +12V: 42A

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

Certification



Platinum Certified
[Test Report]

System BIOS

- BIOS Type**
 - 8MB SPI Flash EEPROM with AMI BIOS

BIOS Features

- DMI 2.3
- PCI 2.3
- ACPI 1.0 / 2.0
- USB Keyboard support
- SMBIOS 2.3

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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SRW-F	1	Super X10SRW-F Motherboard
	CSE-815TQ-R500WB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	Sup 4x SAS/SATA;SATA con
Cable 1	CBL-0180L-01	1	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
Cable 2	CBL-CDAT-0662	1	8 pin to 8 pin round SGPIO cable, 61.5cm, 28AWG, pinout 1-1,RoHS/REACH
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1771-QRG	1	5018R-WR, QRG,HF,RoHS/REACH
Riser Card	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
Riser Card	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide
Fan	FAN-0086L4	4	40x56, 4 Pin PWM
Air Shroud	MCP-310-19002-0N	1	SC815/113/116 Intel DP X9, X8 PC air shroud, 12x13MB

Optional Parts List

	Part Number	Qty	Description
Fan	FAN-0086L4	-	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M
Dummy Tray	MCP-220-83601-0B	-	For internal SSD install option part (w/o FDD); Black FDD dummy tray support 1x 2.5" slim HDD
Dummy Tray	MCP-290-00036-0B	-	For internal SSD install option part (w/o Slim DVD); Black DVD dummy tray support 1x2.5 HDD