

# SuperServer 5019S-WR



## Key Features

- Mainstream, WIO

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 4x 3.5" hot-swap drive bays
4. Up to 64GB ECC/non-ECC UDIMM DDR4 2133MHz; 4x DIMM slots
5. 2x PCI-E 3.0 x8, 1x PCI-E 3.0 x4 (x8) AOC slot
6. 2x GbE ports with Intel® i210-AT, 1x dedicated IPMI port
7. I/O ports: 1x VGA, 1x COM, 2x USB 2.0, USB 3.0
9. 500W Redundant Platinum Level power supplies

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

## Specifications

### Product SKUs

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

### Motherboard

Super X11SSW-F

### Processor/Cache

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

### System Memory

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

Memory Type    ■ 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    ■ Corrects single-bit errors  
 ■ Detects double-bit errors (using ECC)

### Chassis

Form Factor    ■ 1U Rackmount

Model    ■ [CSE-815TOC-R504WB](#)

### Dimensions and Weight

Height    ■ 1.7" (43mm)

Width    ■ 17.2" (437mm)

Depth    ■ 25.6" (650mm)

Package    ■ 6.1" (H) x 25.4" (W) x 19.8" (D)

Weight    ■ Net Weight: 8.45 lbs (3.83 kg)  
 ■ Gross Weight: 12.55 lbs (5.69 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  
 ■ Information LED (temp., status)

### Expansion Slots

Detection	memory)
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C236 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) via C236 controller</li> <li>RAID 0, 1, 5, 10 support</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual Intel® I210-AT Gigabit Ethernet LAN ports</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
Video	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
SATA	<ul style="list-style-type: none"> <li>4x SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2x USB 3.0 ports (rear)</li> <li>2x USB 2.0 ports (rear)</li> </ul>
Video	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x COM ports (1 rear)</li> </ul>
SuperDOM	<ul style="list-style-type: none"> <li>2x <u>SuperDOM</u> (Disk on Module) ports with built-in power</li> </ul>
<b>PC Health Monitoring</b>	
Voltage	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.</li> </ul>
FAN	<ul style="list-style-type: none"> <li>Total of 3 fan headers supporting up to 3 fans</li> <li>3 fans with tachometer status monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Low noise fan speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>I<sup>2</sup>C temperature sensing logic</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>
LED	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> <li>Suspend static indicator LED</li> <li>UID/Remote UID</li> </ul>
Other Features	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> <li>Chipkill support</li> <li>RoHS, Halogen Free</li> </ul>

PCI-Express	<ul style="list-style-type: none"> <li>2x PCI-E 3.0 x8 AOC slots</li> <li>1x PCI-E 3.0 x4 (in x8) AOC slot</li> <li>1x M.2 connector</li> </ul>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>4x 3.5" Hot-swap SATA3 drive bays</li> </ul>
<b>Backplane</b>	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>4x 4cm chassis internal fans</li> </ul>
<b>Power Supply with Power Distributor</b>	
500W high-efficiency (94+%) power supply w/ PMBus	
With Power Distributor	<ul style="list-style-type: none"> <li>+5V: 25 Amp</li> <li>+3.3V: 12 Amp</li> <li>-12V: 0.6 Amp</li> </ul>
Certification	  Platinum Certified <a href="#">[ Test Report ]</a>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>8MB SPI Flash EEPROM with AMI BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>DMI 2.3</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> </ul>
<b>Operating Environment / Compliance</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11SSW-F	1	Super X11SSW-F Motherboard
	CSE-815TQC-R504WB	1	1U Chassis
<b>Backplane</b>	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS/SAS HDD/SSD
<b>Cable 1</b>	CBL-CDAT-0662	1	8 pin to 8 pin round SGPIO cable, 61.5cm, 28AWG, pinout 1-1,RoHS/REACH
<b>Cable 2</b>	CBL-0180L-01	1	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Manual</b>	MNL-1798-QRG	1	5019S-WR,QRG,HF,RoHS/REACH
<b>Riser Card</b>	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
<b>Riser Card</b>	RSC-W-68-P	1	RSC-W-68
<b>Heatsink / Retention</b>	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
<b>Air Shroud</b>	MCP-310-19002-0N	1	SC815/113/116 Intel DP X9, X8 PC air shroud, 12x13MB
<b>Power Supply</b>	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide
<b>Fan</b>	FAN-0156L4 or FAN-0086L4	1	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH 40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M