

# SuperServer 1018R-WR



## 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

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

## Specifications

### Product SKUs

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 ■ 2400†/ 2133/1866/1600MHz ECC DDR4

### 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 Overheat LED

### Expansion Slots

PCI-Express ■ Left Riser: 2x PCI-E 3.0 x16 slots

■ 1x PCI-E 3.0 x8 LP slot

|                 |                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Type            | SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs                                                                   |
| DIMM Sizes      | <ul style="list-style-type: none"> <li>3DS LRDIMM: 128GB</li> <li>LRDIMM: 64GB, 32GB</li> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> </ul> |
| Memory Voltage  | <ul style="list-style-type: none"> <li>1.2 V</li> </ul>                                                                              |
| Error Detection | <ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>   |

#### On-Board Devices

|                     |                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chipset             | <ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>                                                                                                                                                                 |
| SATA                | <ul style="list-style-type: none"> <li>SATA3 (6Gbps) via C612 controller</li> <li>RAID 0, 1, 10 support; 5 supported under Windows</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 with 10/100/1000Mbps</li> </ul> |
| Network Controllers | <ul style="list-style-type: none"> <li>Intel® i350-AM2 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>           |
| VGA                 | <ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>                                                                                                                                                                  |

#### Input / Output

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| SATA                 | <ul style="list-style-type: none"> <li>10x SATA3 (6Gbps) ports</li> <li>SATA DOM Power Connector</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> <li>2x USB 3.0 ports (front)</li> </ul> |
| VGA                  | <ul style="list-style-type: none"> <li>1x VGA port</li> </ul>                                                                                |
| Serial Port / Header | <ul style="list-style-type: none"> <li>2x COM ports (1 rear, 1 header)</li> </ul>                                                            |
| DOM                  | <ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>                                                         |

#### PC Health Monitoring

|                |                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage        | <ul style="list-style-type: none"> <li>Monitors for CPU Cores, +12V, +3.3V, +5V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.</li> <li>5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V</li> </ul>                                                                                                                          |
| FAN            | <ul style="list-style-type: none"> <li>6x 4-pin fan headers</li> <li>4x fans w/ tachometer status monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Support 3-pin fans (w/o speed 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 &amp; chassis environment</li> <li>CPU thermal trip support</li> <li>FC 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>+5V Standby alert LED</li> </ul>                                                                                                                                                                                                                                            |
| Other Features | <ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> </ul>                                                                                                                                                                                                                                       |

#### Drive Bays


|          |                                                                            |
|----------|----------------------------------------------------------------------------|
| Internal | <ul style="list-style-type: none"> <li>2x 2.5" fixed drive bays</li> </ul> |
|----------|----------------------------------------------------------------------------|

#### System Cooling

|      |                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------|
| Fans | <ul style="list-style-type: none"> <li>4x 40x56mm PWM Cooling Fans</li> <li>2x Optional fans for AOC cooling</li> </ul> |
|------|-------------------------------------------------------------------------------------------------------------------------|

#### AC/DC240V Input Redundant Power Supplies

##### 400W 1U Redundant Power Supplies with PMbus

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Total Output Power    | <ul style="list-style-type: none"> <li>400W</li> </ul>                                                                                       |
| Dimension (W x H x L) | <ul style="list-style-type: none"> <li>54.5 x 40 x 220 mm</li> </ul>                                                                         |
| Input                 | <ul style="list-style-type: none"> <li>100 - 240Vac / 6.0 - 3.0A / 50-60Hz</li> <li>200 - 240Vdc / 3.4 - 3.2A (CCC Only)</li> </ul>          |
| +12V                  | <ul style="list-style-type: none"> <li>Max: 33A / Min: 0.5A</li> </ul>                                                                       |
| +5V sb                | <ul style="list-style-type: none"> <li>Max: 3A / Min: 0A</li> </ul>                                                                          |
| Output Type           | <ul style="list-style-type: none"> <li>Gold Finger Connector Mating with Molex 45984-4343</li> </ul>                                         |
| Certification         |  Platinum Level Certified [ <a href="#">Test Report</a> ] |

#### System BIOS

|               |                                                                                                                                                                                                                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BIOS Type     | <ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>                                                                                                                                                                                                                             |
| BIOS Features | <ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>DMI 2.3</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>Hardware BIOS Virus protection</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> <li>RTC (Real Time Clock) Wakeup</li> </ul> |

#### Management

|                      |                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Software             | <ul style="list-style-type: none"> <li>IPMI (Intelligent Platform Management Interface) v2.0 with KVM support</li> <li>SuperDoctor® 5</li> <li>Watch Dog</li> </ul>                                          |
| Power Configurations | <ul style="list-style-type: none"> <li>ACPI / ACPM Power Management</li> <li>Main Switch Override Mechanism</li> <li>Power-on mode for AC power recovery</li> <li>Internal/External modem ring-on</li> </ul> |

#### Operating Environment / Compliance

|                     |                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                          |
|-----------------------|-----------------------------|-----|----------------------------------------------------------------------------------------------------------------------|
| 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   | 48CM SATA ROUND S-RA PBF.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   | 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-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<br>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                                                 |
|------------------------|-------------|-----|-------------------------------------------------------------|
| GPU Optional Parts     | FAN-0141L4  | 2   | 40x40x56mm 20.5K RPM / 17.6K RPM Counter-rotating Fan       |
|                        | CBL-0424L   | 1   | 8 pin to Dual 6+2 pin GPU power extension, 40cm             |
|                        | CBL-0296L   | 1   | 4 pin to 4 pin fan extension cord, for PWM fan, 23cm, 24AWG |
| SATA Cable for 2nd HDD | CBL-0227L   | 1   | 48cm SATA ROUND S-RA BPF.26AWG                              |