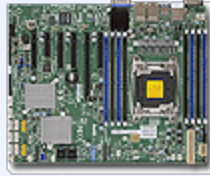


# SuperStorage Server 5028R-E1CR12L



## Integrated Board



**Super X10SRH-CLN4F**



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. Up to 512GB ECC DDR4 2133MHz; 8x DIMM slots
3. 1 PCI-E 3.0 x8 (in x16), 2 PCI-E 3.0 x8, 1 PCI-E 3.0 x8 (in x16), 1 PCI-E 2.0 x2 (in x4), 1 PCI-E 2.0 x4 (in x8)
4. Intel® i350-AM4 Quad port GbE LAN
5. 12x 3.5" Hot-swap SAS3 HDD bays; Opt. 2x 2.5" Hot-swap HDD bays (rear)
6. SAS3 via LSI 3008 controller; IR mode
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 3x 8cm high-performance PWM fans
9. 920W Redundant Power Supplies Platinum Level (94%)
10. Dual JBOD expansion ports

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

## Specifications

### Product SKUs

- SSG-5028R-E1CR12L ■ SuperServer 5028R-E1CR12L (Black)

### Motherboard

Super X10SRH-CLN4F

### 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

### Chassis

- Form Factor ■ 2U Rackmount  
 Model ■ [CSE-826BE1C-R920LPB](#)

### Dimensions

- Width ■ 17.2" (437mm)  
 Height ■ 3.5" (89mm)  
 Depth ■ 25.6" (648mm)  
 Package ■ 11.5" (H) x 26.5" (W) x 34" (D)  
 Weight ■ Gross Weight: 58 lbs (26.3 kg)  
 ■ Net Weight: 34 lbs (15.4 kg)  
 Available Colors ■ Black

### Front Panel

- Buttons ■ Power On/Off button  
 ■ System Reset button  
 LEDs ■ Power status LED  
 ■ Hard drive activity LED  
 ■ 2x Network activity LEDs  
 ■ System Overheat LED

Memory Type	<ul style="list-style-type: none"> <li>Up to 256GB DDR4 ECC RDIMM</li> <li>2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin gold-plated DIMMs</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <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>
SAS	<ul style="list-style-type: none"> <li>SAS3 (12Gbps) via LSI 3008 (IR mode)</li> <li>SW RAID 0, 1, 10</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>Intel® i350-AM4 Quad 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> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>

#### Input / Output

SAS	<ul style="list-style-type: none"> <li>8x SAS3 (12Gbps) ports</li> </ul>
SATA	<ul style="list-style-type: none"> <li>10x SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>4x 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>
VGA	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port / 1 Header</li> </ul>

- Power fail LED

#### Expansion Slots

PCI-Express	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x4 (in x8) slot</li> <li>1x PCI-E 3.0 x8 (in x16) slot</li> <li>2x PCI-E 3.0 x8 slots</li> <li>1x PCI-E 2.0 x2 (in x4) slot</li> <li>1x PCI-E 2.0 x4 (in x8) slot</li> </ul>
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#### Drive Bays

Hot-swap	<ul style="list-style-type: none"> <li>12x 3.5" Hot-swap SAS3 HDD bays</li> </ul>
Optional	<ul style="list-style-type: none"> <li>2x 2.5" Hot-swap HDD bays (rear)</li> </ul>

#### Backplane

SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ LSISAS3x28 expander, support 12x 3.5" drives, with 4x mini-SAS HD connectors, 2 for uplink and another 2 for downlink

#### System Cooling

Fans	<ul style="list-style-type: none"> <li>3x 8cm 9.5K RPM, 4-pin PWM fans</li> </ul>
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#### Power Supply with Power Distributor

920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C

AC Input	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 11-4.5 Amp</li> </ul>
DC Output	<ul style="list-style-type: none"> <li>4 Amp @ +5V standby</li> <li>75 Amp @ +12V</li> </ul>

Certification	  Platinum Certified [ <a href="#">Test Report</a> ]
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#### 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>PCI 2.2</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</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
<b>Motherboard / Chassis</b>	MBD-X10SRH-CLN4F	1	Super X10SRH-CLN4F Motherboard
	CSE-826BE1C-R920LPB	1	2U Chassis
<b>Backplane</b>	BPN-SAS3-826EL1	1	SAS 12G single expander backplane, with LSISAS3x28 expander, support 12x 3.5
<b>Cable 1</b>	CBL-SAST-0568	2	Internal Mini-SAS HD to Mini-SAS HD 35cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
<b>Cable 2</b>	CBL-SAST-0550	2	Internal Mini-SAS HD to Mini-SAS HD 25cm,30AWG,HF,RoHS/REACH,PBF
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Manual</b>	MNL-1607-QRG	1	SSG-5028R-E1CR12L, QRG,HF,RoHS/REACH
<b>Parts</b>	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
<b>Heatsink / Retention</b>	SNK-P0048PS	1	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
<b>Add-on Card / Module</b>	AOM-SAS3-818E-LP	1	8-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket,HF,RoHS/REACH
<b>Power Supply</b>	PWS-920P-SQ	2	920W 1U Redundant PWS W/ Quiet Mode
<b>Drive Tray(s)</b>	MCP-220-00075-0B	12	Black 3.5" HDD tray

Optional Parts List			
	Part Number	Qty	Description
<b>Rear Window</b>	MCP-220-82609-0N	-	Rear hot-swap drive bay for 2x 2.5" drives