

## SuperStorage Server 5028R-E1CR12L

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## Integrated Board



Super X10SRH-CLN4F

**Available Colors:**

Black



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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

<b>Product SKUs</b>		<b>Chassis</b>	
<b>SSG-5028R-E1CR12L</b>	<ul style="list-style-type: none"><li>■ SuperServer 5028R-E1CR12L (Black)</li></ul>	<b>Form Factor</b>	<ul style="list-style-type: none"><li>■ 2U Rackmount</li></ul>
		<b>Model</b>	<ul style="list-style-type: none"><li>■ CSE-826BE1C-R920LFB</li></ul>
<b>Motherboard</b>		<b>Dimensions</b>	
<b>Super X10SRH-CLN4F</b>		<b>Width</b>	<ul style="list-style-type: none"><li>■ 17.2" (437mm)</li></ul>
		<b>Height</b>	<ul style="list-style-type: none"><li>■ 3.5" (89mm)</li></ul>
<b>Processor</b>		<b>Depth</b>	<ul style="list-style-type: none"><li>■ 25.6" (648mm)</li></ul>
<b>CPU</b>	<ul style="list-style-type: none"><li>■ Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP)**</li><li>■ Single Socket R3 (LGA 2011)</li></ul>	<b>Weight</b>	<ul style="list-style-type: none"><li>■ Gross Weight: 58 lbs (26.3 kg)</li><li>■ Net Weight: 34 lbs (15.4 kg)</li></ul>
<b>Core / Cache</b>	<ul style="list-style-type: none"><li>■ Up to 18 Cores / Up to 45MB Cache</li></ul>	<b>Available Colors</b>	<ul style="list-style-type: none"><li>■ Black</li></ul>
<b>Note</b>	<p>** Motherboard supports this maximum TDP. Please verify your system can thermally support</p>		
<b>System Memory</b>		<b>Front Panel</b>	
<b>Memory Capacity</b>	<ul style="list-style-type: none"><li>■ 8x 284-pin DDR4 DIMM sockets</li><li>■ Up to 512GB DDR4 ECC LRDIMM</li><li>■ Up to 256GB DDR4 ECC RDIMM</li></ul>	<b>Buttons</b>	<ul style="list-style-type: none"><li>■ Power On/Off button</li><li>■ System Reset button</li></ul>
<b>Memory Type</b>	<ul style="list-style-type: none"><li>■ 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 284-pin gold-plated DIMMs</li></ul>	<b>LEDs</b>	<ul style="list-style-type: none"><li>■ Power status LED</li><li>■ Hard drive activity LED</li><li>■ 2x Network activity LEDs</li><li>■ System Overheat LED</li><li>■ Power fail LED</li></ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"><li>■ RDIMM: 32GB, 16GB, 8GB, 4GB</li></ul>		
<b>Memory Voltage</b>	<ul style="list-style-type: none"><li>■ 1.2 V</li></ul>	<b>Expansion Slots</b>	
<b>Error Detection</b>	<ul style="list-style-type: none"><li>■ Corrects single-bit errors</li><li>■ Detects double-bit errors (using ECC memory)</li></ul>	<b>PCI-Express</b>	<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>
<b>On-Board Devices</b>		<b>Drive Bays</b>	
<b>Chipset</b>	<ul style="list-style-type: none"><li>■ Intel C612 Express chipset</li></ul>	<b>Hot-swap</b>	<ul style="list-style-type: none"><li>■ 12x 3.5" Hot-swap SAS3 HDD bays</li></ul>
<b>SAS</b>	<ul style="list-style-type: none"><li>■ SAS3 (12Gbps) via LSI 3008 (IR mode)</li><li>■ SW RAID 0, 1, 10</li></ul>	<b>Optional</b>	<ul style="list-style-type: none"><li>■ 2x 2.5" Hot-swap HDD bays (rear)</li></ul>
<b>IPMI</b>	<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>	<b>Backplane</b>	<p>SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ LSI SAS3x28 expander, support 12x 3.5" drives, with 4x mini-SAS HD connectors, 2 for uplink and another 2 for downlink</p>
<b>Network Controllers</b>	<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>	<b>System Cooling</b>	
<b>Graphics</b>	<ul style="list-style-type: none"><li>■ ASPEED AST2400 BMC</li></ul>	<b>Fans</b>	<ul style="list-style-type: none"><li>■ 3x 8cm 9.5K RPM, 4-pin PWM fans</li></ul>
<b>Input / Output</b>		<b>Power Supply with Power Distributor</b>	
<b>SAS</b>	<ul style="list-style-type: none"><li>■ 8x SAS3 (12Gbps) ports</li></ul>	<p>920W high-efficiency (94%+) AC-DC Redundant power supplies with FMBus and I2C</p>	
<b>SATA</b>	<ul style="list-style-type: none"><li>■ 10x SATA3 (6Gbps) ports</li></ul>	<b>AC Input</b>	<ul style="list-style-type: none"><li>■ 100-240 V, 50-60 Hz, 11-4.5 Amp</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>■ 4x RJ45 Gigabit Ethernet LAN ports</li><li>■ 1x RJ45 Dedicated IPMI LAN port</li></ul>	<b>DC Output</b>	<ul style="list-style-type: none"><li>■ 4 Amp @ +5V standby</li><li>■ 75 Amp @ +12V</li></ul>
<b>USB</b>	<ul style="list-style-type: none"><li>■ 2x USB 3.0 ports (rear)</li><li>■ 2x USB 2.0 ports (rear)</li></ul>	<b>Certification</b>	<div><b>Platinum Certified</b> [ Test Report ]</div>
<b>VGA</b>	<ul style="list-style-type: none"><li>■ 1x VGA port</li></ul>	<b>System BIOS</b>	
<b>Serial Port / Header</b>	<ul style="list-style-type: none"><li>■ 1x Fast UART 16550 port / 1 Header</li></ul>	<b>BIOS Type</b>	<ul style="list-style-type: none"><li>■ 128Mb SPI Flash EEPROM with AM BIOS</li></ul>
			<ul style="list-style-type: none"><li>■ Plug and Play (PnP)</li><li>■ ACPI 1.2</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>
		<b>Operating Environment / Compliance</b>	
		<b>RoHS</b>	<ul style="list-style-type: none"><li>■ RoHS Compliant</li></ul>
		<b>Environmental Spec.</b>	<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

[See Parts List](#)

