

SuperStorage Server 6048R-E1CR90L (Complete System Only)

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Integrated Board



X10DSC-TP4S

Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Tested HDD](#) | [Manuals](#) | [OS Certification Matrix](#)

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/v3 family; QPI up to 9.6GT/s

2. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 8x DIMM slots

3. SIOM card for multiple IO options

4. 90x 3.5" Hot-swap SAS3/SATA3 drive bays; 2x 2.5" rear Hot-swap SATA drive bays

5. 2 Onboard LSI 3008 SAS3 controllers

6. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN

7. 5x 8cm hot-swap redundant PWM fans

8. 4x 1000W Redundant Power Supplies **Titanium Level (96%)** Certified

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

Specifications	
<div><div><div>Product SKUs</div><div><div>SSG-6048R-E1CR90L</div><div><ul style="list-style-type: none">SuperServer 6048R-E1CR90L (Black)</div></div></div><div><div>Motherboard</div><div><div>Super X10DSC-TP4S</div></div></div><div><div>Processor/Cache</div><div><div>CPU</div><div><ul style="list-style-type: none">Intel® Xeon® processor E5-2600 v4[†]/v3 family (up to 145W TDP) *Dual Socket R3 (LGA 2011)</div></div><div><div>Cores / Cache</div><div><ul style="list-style-type: none">Up to 22 Cores[†] / Up to 55MB[†] Cache</div></div><div><div>System Bus</div><div><ul style="list-style-type: none">QPI up to 9.6 GT/s</div></div><div><div>Note</div><div><ul style="list-style-type: none">[†] BIOS version 2.0 or above is required</div></div><div><div>Note</div><div><ul style="list-style-type: none">* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.</div></div></div><div><div>System Memory</div><div><div>Memory Capacity</div><div><ul style="list-style-type: none">8x 288-pin DDR4 DIMM slotsUp to 1TB[†] ECC 3DS LRDIMM, 256GB ECC RDIMM</div></div><div><div>Memory Type</div><div><ul style="list-style-type: none">2400[†]/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit</div></div><div><div>DIMM Sizes</div><div><ul style="list-style-type: none">RDIMM: 32GB, 16GB, 8GB, 4GBLRDIMM: 64GB, 32GB3DS LRDIMM: 128GB</div></div><div><div>Memory Voltage</div><div><ul style="list-style-type: none">1.2 V</div></div><div><div>Error Detection</div><div><ul style="list-style-type: none">Corrects single-bit errors</div></div></div><div><div>On-Board Devices</div><div><div>Chipset</div><div><ul style="list-style-type: none">Intel® C612 chipset</div></div><div><div>SAS</div><div><ul style="list-style-type: none">2 Onboard LSI 3008 SAS3 controllers</div></div><div><div>IPMI</div><div><ul style="list-style-type: none">Support for Intelligent Platform Management Interface v2.0IPMI 2.0 with virtual media over LAN and KVM-over-LAN supportASPEED AST2400 BMC</div></div><div><div>Network Controllers</div><div><ul style="list-style-type: none">Quad LAN with Intel® XL710 10G SFP+SIOM card for multiple IO options</div></div><div><div>Graphics</div><div><ul style="list-style-type: none">ASPEED AST2400 BMC</div></div></div><div><div>Input / Output</div><div><div>LAN</div><div><ul style="list-style-type: none">4 10G SFP+ LAN ports1 RJ45 Dedicated IPMI LAN port</div></div><div><div>USB</div><div><ul style="list-style-type: none">2 USB 3.0 ports (rear)4 USB 2.0 ports (2 rear + 2 via headers)</div></div><div><div>VGA</div><div><ul style="list-style-type: none">1 VGA port</div></div><div><div>Serial Port / Header</div><div><ul style="list-style-type: none">1 Fast UART 16550 port / 1 Header</div></div></div></div>	<div><div><div>Chassis</div><div><div>Form Factor</div><div><ul style="list-style-type: none">4U Rackmount</div></div><div><div>Model</div><div><ul style="list-style-type: none">CSE-946E1C-R3KB</div></div></div><div><div>Dimensions and Weight</div><div><div>Width</div><div><ul style="list-style-type: none">17.6" (447mm)</div></div><div><div>Height</div><div><ul style="list-style-type: none">7" (178mm)</div></div><div><div>Depth</div><div><ul style="list-style-type: none">35.66" (906mm)</div></div><div><div>Weight</div><div><ul style="list-style-type: none">Gross Weight: 235 lbs (106.6 kg)Net Weight: 160 lbs (72.6 kg)</div></div><div><div>Available Colors</div><div><ul style="list-style-type: none">Black</div></div></div><div><div>Front Panel</div><div><div>Buttons</div><div><ul style="list-style-type: none">Power On/Off buttonUnit Identification (UID) button</div></div><div><div>LEDs</div><div><ul style="list-style-type: none">Power status LEDHard drive activity LEDNetwork activity LEDsSystem information LEDPower fail LED</div></div></div><div><div>Drive Bays</div><div><div>Hot-swap</div><div><ul style="list-style-type: none">90x 3.5" Hot-swap SAS3/SATA3 drive bays2x 2.5" rear Hot-swap SATA drive bays</div></div></div><div><div>Backplane</div><div><ul style="list-style-type: none">SAS3/SATA3 single expander per backplane</div></div><div><div>System Cooling</div><div><div>Fans</div><div><ul style="list-style-type: none">5x 8cm hot-swap redundant PWM cooling fans</div></div></div><div><div>Power Supply</div><div><div>1000W Redundant Power Supplies with PMBus</div><div><div>Total Output Power</div><div><ul style="list-style-type: none">800W/1000W</div></div><div><div>Dimension (W x H x L)</div><div><ul style="list-style-type: none">73.5 x 40 x 185 mm</div></div><div><div>Input</div><div><ul style="list-style-type: none">100-127Vac / 9.8 - 7A / 50-60Hz200-240Vac / 7 - 5A / 50-60Hz</div></div><div><div>+12V</div><div><ul style="list-style-type: none">Max: 66.7A / Min: 0A (100-127Vac)Max: 83A / Min: 0A (200-240Vac)</div></div><div><div>12Vsb</div><div><ul style="list-style-type: none">Max: 2.1A / Min: 0A</div></div><div><div>Output Type</div><div><ul style="list-style-type: none">25 Pairs Gold Finger Connector</div></div><div><div>Certification</div><div><div><div><div>80 PLUS TITANIUM</div></div><div></div></div><div>UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]</div></div></div></div><div><div>System BIOS</div><div><div>BIOS Type</div><div><ul style="list-style-type: none">128Mb SPI Flash EEPROM with AMI BIOS</div></div><div><div>BIOS Features</div><div><ul style="list-style-type: none">Plug and Play (PnP)APM 1.2PCI 2.2ACPI 1.0 / 2.0USB Keyboard supportSMBIOS 2.3UEFI</div></div></div><div><div>Operating Environment / Compliance</div><div><div>RoHS</div><div><ul style="list-style-type: none">RoHS Compliant</div></div><div><div>Environmental Spec.</div><div><ul style="list-style-type: none">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)</div></div></div></div></div>

Parts List

[See Parts List](#)

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