

SuperStorage 6048R-E1CR60L (Complete System Only)

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Integrated Board



Super X10DSC+

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

Due to the complexity of integration, this product is sold as a completely assembled system only (with minimum 2 CPUs, 2 DIMMs, 30 HDDs and 1 NIC or SIOM card).

▸ [Drivers & Utilities](#) ▸ [BIOS](#) ▸ [IPMI](#) ▸ [Tested Memory](#) ▸ [NVMe Options](#) ▸
[Manuals](#) ▸ [OS Certification Matrix](#) ▸ [Drive Options](#) ▸ [Tested SIOM](#)

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 160W TDP)
2. Up to 3TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 24x DIMM slots
3. 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
4. SIOM for flexible networking options
5. 60x 3.5" Hot-swap SAS3/SATA3 drive bays; 2x 2.5" rear Hot-swap SATA drive bays; optional 6x NVMe bays
6. Broadcom 3008 SAS3 IT mode controller
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 5x 8cm hot-swap redundant PWM fans PWM fans
9. 2000W Redundant Power Supplies **Titanium Level (96%)** Certified
10. Front 3.5" LCD display




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

Specifications

Product SKUs	
SSG-6048R-E1CR60L	■ SuperServer 6048R-E1CR60L (Black)
Motherboard	
Super X10DSC+	
Processor/Cache	
CPU	■ Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 160W TDP) * ■ Dual Socket R3 (LGA 2011)
Cores / Cache	■ Up to 22 Cores† / Up to 55MB† Cache
System Bus	■ QPI up to 9.6 GT/s
Note	† BIOS version 2.0 or above is required
Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
System Memory	
Memory Capacity	■ 24x 288-pin DDR4 DIMM slots ■ Up to 3TB† ECC 3DS LRDIMM, 768 ECC RDIMM
Memory Type	■ 2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	■ RDIMM: 32GB, 16GB, 8GB, 4GB ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB
Memory Voltage	■ 1.2 V
Error Detection	■ Corrects single-bit errors
On-Board Devices	
Chipset	■ Intel® C612 chipset
SAS	■ Broadcom 3008 SAS3 IT mode
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ■ ASPEED AST2400 BMC
Network Controllers	■ SIOM support for flexible networking options

Chassis	
Form Factor	■ 4U Rackmount
Model	■ CSE-946STS-R2K05P
Dimensions and Weight	
Width	■ 17.2" (437mm)
Height	■ 7" (178mm)
Depth	■ 30.2" (767mm) ■ With Cable Management Arm Installed: 35.2" (895mm)
Weight	■ Gross Weight: 170.5 lbs (77.3 kg) ■ Net Weight: 118 lbs (53.5 kg)
Available Colors	■ Black
Front Panel	
Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power status LED ■ Hard drive activity LED ■ 2 Network activity LEDs ■ System Overheat LED ■ Power fail LED
LCD	■ 3.5" TFT LCD panel ■ Full-Color display with 320x480 pixels ■ Real-time system status from IPMI ■ Easy read graphical User Interface
Expansion Slots	
PCI-Express	■ 2 PCI-E 3.0 x16 slots ■ 1 PCI-E 3.0 x8 slots
Drive Bays	
Hot-swap	■ 60x 3.5" Hot-swap SAS3/SATA3 drive bays ■ 2x 2.5" rear Hot-swap SATA drive bays
Optional	■ 6 NVMe bays (optional)
Backplane	
SAS3/SATA3 single expander per backplane	
System Cooling	
Fans	■ 2x 80mm hot-swap rear exhaust cooling fans ■ Redundant cooling
Power Supply	
2000W Redundant Power Supplies with PMBus	

Graphics	■ ASPEED AST2400 BMC
Input / Output	
USB	■ 3 USB 3.0 ports (2 rear + 1 Type A)
VGA	■ 1 VGA port
Serial Port / Header	■ 1 Fast UART 16550 port / 1 Header

Total Output Power	■ 1000W/1800W/1980W/2000W
Dimension (W x H x L)	■ 73.5 x 40 x 265 mm
Input	<ul style="list-style-type: none"> ■ 100-120Vac / 12.5-9.5A / 50-60Hz ■ 200-220Vac / 10-9.5A / 50-60Hz ■ 220-230Vac / 10-9.8A / 50-60Hz ■ 230-240Vac / 10-9.8A / 50-60Hz ■ 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)
+12V	<ul style="list-style-type: none"> ■ Max: 83.3A / Min: 0A (100-120Vac) ■ Max: 150A / Min: 0A (200-220Vac) ■ Max: 165A / Min: 0A (220-230Vac) ■ Max: 166.7A / Min: 0A (230-240Vac) ■ Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)
12Vsb	■ Max: 2.1A / Min: 0A
Output Type	■ 25 Pairs Gold Finger Connector
Certification	  UL/cUL/CE/CCC Titanium Level [Test Report]
System BIOS	
BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> ■ Plug and Play (PnP) ■ APM 1.2 ■ PCI 2.2 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3 ■ UEFI
Operating Environment / Compliance	
RoHS	■ RoHS Compliant
Environmental Spec.	<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)

Parts List

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