



SuperStorage Server 6048R-E1CR60N (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 completely assembled systems only (with minimum 30 HDDs and 1 NIC or SIOM card).

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Key Features

1. Dual socket R3 (LGA 2011) sup Intel® Xeon® processor E5-260 v4†/ v3 family (up to 160W TDP)
2. Up to 3TB† ECC 3DS LRDIMM 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 6 NVMe bays
6. Broadcom 3108 SAS3 HW RAID controller
7. Server remote management: IPMI / KVM over LAN / Media over LAN
8. 5x 8cm hot-swap redundant PWM fans
9. 2000W Redundant Power Supply 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-E1CR60N ■ SuperServer 6048R-E1CR60N (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.

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

System Memory

Memory Capacity	<ul style="list-style-type: none"> 24x 288-pin DDR4 DIMM slots Up to 3TB[†] ECC 3DS LRDIMM, 768 ECC RDIMM
Memory Type	<ul style="list-style-type: none"> 2400[†]/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 3DS LRDIMM: 128GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via Broadcom 3108 (optional SuperCap) HW RAID 0, 1, 5, 6, 10, 50, 60
IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> SIOM support for flexible networking options
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

USB	<ul style="list-style-type: none"> 3 USB 3.0 ports (2 rear + 1 Type A)
VGA	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 port / 1 Header

LEDs	<ul style="list-style-type: none"> Power status LED Hard drive activity LED 2 Network activity LEDs System Overheat LED Power fail LED
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LCD	<ul style="list-style-type: none"> 3.5" TFT LCD panel Full-Color display with 320x480 pixels Real-time system status from IPMI Easy read graphical User Interface
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Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 slots 1 PCI-E 3.0 x8 slots
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 60x 3.5" Hot-swap SAS3/SATA3 drive 2x 2.5" rear Hot-swap SATA drive bay:
Optional	<ul style="list-style-type: none"> 6 NVMe bays (optional)

Backplane

SAS3/SATA3 single expander per backplane
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System Cooling

Fans	<ul style="list-style-type: none"> 5x 80mm hot-swap rear exhaust cooling fans Redundant cooling
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Power Supply

2000W Redundant Power Supplies with PMBus

Total Output Power	<ul style="list-style-type: none"> 1000W/1800W/1980W/2000W
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Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 265 mm
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Input	<ul style="list-style-type: none"> 100-120Vac / 12-9.5A / 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)
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+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)
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12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
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Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
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Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/C Titanium Level [Test Report]
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System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI
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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
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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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)
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- Operating Relative Humidity:
8% to 90% (non-condensing)
- Non-operating Relative Humidity:
5% to 95% (non-condensing)

Parts List

[See Parts List](#)

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