

SuperStorage Server 5048R-E1CR36L



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 x4 (in x8), 1 PCI-E 3.0 x8 (in x16), 2 PCI-E 3.0 x8, 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. 36x 3.5" Hot-swap SAS3 HDD Bays (24 front + 12 rear); Opt. 2x 2.5" Hot-swap HDD bays (rear)
6. SAS3 via LSI 3008 controller; IR mode
7. Dual JBOD expansion ports
8. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
9. 7x 80mm middle cooling fans
10. 1280W Redundant Power Supplies **Platinum Level (94%)**

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

Specifications

Product SKUs

- SSG-5048R-E1CR36L** ■ SuperServer 5048R-E1CR36L (**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
 - Up to 256GB DDR4 ECC RDIMM

Chassis

- Form Factor** ■ 4U Rackmount
- Model** ■ **CSE-847BE1C-R1K28LPB**

Dimensions and Weight

- Width** ■ 17.2" (437mm)
- Height** ■ 7" (178mm)
- Depth** ■ 27.5" (699mm)
- Package** ■ 17.5" (H) x 27" (W) x 39.5" (D)
- Weight**
- Gross Weight: 102.5 lbs (46.4 kg)
 - Net Weight: 65.5 lbs (29.7 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
 - Power fail LED

Memory Type	<ul style="list-style-type: none"> 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via LSI 3008 IR mode SW RAID 0, 1, 10 (* Max 14x HDD support)
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"> Intel® i350-AM4 Quad Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

SAS	<ul style="list-style-type: none"> 8x SAS3 (12Gbps) ports
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 3.0 ports (rear) 2x USB 2.0 ports (rear)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port / 1 Header

Expansion Slots

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

Drive Bays

Hot-swap	<ul style="list-style-type: none"> 36x 3.5" Hot-swap SAS3 HDD bays Double-sided: 24 front + 12 rear HDD Bays
Fixed	<ul style="list-style-type: none"> Optional Internal Drive Bracket supports 2x 2.5" devices

Backplane

SAS3 / SATA3 single expander per backplane

System Cooling

Fans	<ul style="list-style-type: none"> 7x 80mm middle cooling fans Redundant cooling
-------------	--

Power Supply with Digital Switching Control & PMBus 1.2

1280W High-Efficiency (95%+) power supply

AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A

Certification



Platinum Certified
[[Test Report](#)]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SRH-CLN4F	1	Super X10SRH-CLN4F Motherboard
	CSE-847BE1C-R1K28LPB	1	4U Chassis
Backplane	BPN-SAS3-826EL1	1	support 12x 3.5
Backplane	BPN-SAS3-846EL1	1	SAS 12G single expander backplane, with LSI SAS3 expander, support 24x 3.5
Cable 1	CBL-0296L	4	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 2	CBL-SAST-0531-01	6	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s [FCI],RoHS/REACH
Heatsink / Retention	SNK-P0048AP4	1	2U Active CPU Heat Sink for Intel R2/R3/B2/B3 and AMD C32
Power Supply	PWS-1K28P-SQ	2	1U 1280W, redundant single output power supply

Optional Parts List

	Part Number	Qty	Description
Drive Tray	MCP-220-84701-0N	-	Internal drive tray for one 3.5" HDD or two 2.5" HDD
Peripheral Drives	MCP-220-82609-0N	-	Rear 2 X 2.5" HDD kit (cables & backplane included)