SuperStorage Server 6048R-E1CR36L

SAS3 IT controller Storage Expandable

Integrated Board

Super X10DRH-iT

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 **2TB**† ECC 3DS LRDIMM , up to DDR4- **2400**†MHz ; 16x DIMM slots
3. 1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8 (slot 1 & 2 occupied by controller and JBOD expansion port)
4. Dual 10GBase-T LAN w/ Intel® X540
5. 36x 3.5" Hot-swap drive bays (24 front + 12 rear): 32x 3.5" Hot-swap SAS3/SATA3 drive bays and 4x NVMe hybrid drive bays (SAS3/SATA3/NVMe*); 2x 2.5" optional Hot-swap SATA drive bays (rear); 4x 2.5" internal fixed drive bays
6. SAS3 via LSI 3008 controller; IT mode
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 7x 80mm middle cooling fans
9. 1280W Redundant Power Supplies **Platinum Level (94%)**

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD ▸ Manuals ▸ OS Certification Matrix

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-E1CR36L	SuperServer 6048R-E1CR36L (Black)

Motherboard
Super X10DRH-iT

Processor/Cache	
CPU	Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W 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	16x 288-pin DDR4 DIMM slots Up to 2TB† ECC 3DS LRDIMM, 512 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	SAS3 (12Gbps) via LSI 3008 IT mode firmware
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10
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	Intel® X540 Dual Port 10GbE Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Realtek RTL8201N PHY (dedicated IPMI)
Graphics	ASPEED AST2400 BMC

Input / Output	
LAN	2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear) 2 USB 2.0 ports (rear) 1 Type A
VGA	1 VGA port
Serial Port / Header	1 Fast UART 16550 port / 1 Header

Chassis	
Form Factor	4U Rackmount
Model	CSE-847BE1C-R1K28LPB

Dimensions and Weight	
Width	17.2" (437mm)
Height	7" (178mm)
Depth	27.5" (699mm)
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 2 Network activity LEDs System Overheat LED Power fail LED

Expansion Slots	
PCI-Express	1 PCI-E 3.0 x16 slot 6 PCI-E 3.0 x8 slots Slot 1 & 2 occupied by controller and JBOD Expansion Port

Drive Bays	
Hot-swap	36x 3.5" Hot-swap SAS3/SATA3 drive bays Double-sided: 24 front + 12 rear drive bays
Optional	2x 2.5" Hot-swap SATA drive bays (rear) Fixed internal Drive Bracket supports 1x 3.5 or 2x 2.5" devices

Backplane
SAS3/SATA3 single expander per backplane

System Cooling	
Fans	7x 80mm middle cooling fans Redundant cooling

Power Supply with Digital Switching Control & PMBus 1.2	
1280W High-Efficiency (95%+) power supply	
AC Input	1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
Certification	80 PLUS PLATINUM, Digital — Platinum Certified [Test Report]

System BIOS	
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	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.	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

See Parts List

Note: * NVMe support requires additional parts in optional parts list

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