

SuperStorage Server 6047R-E1R36N



Integrated Board



Super X9DRi-LN4F+



Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1.5TB ECC DDR3, up to 1866MHz; 24x DIMM sockets
3. 3x PCI-E 3.0 x16 and 1x PCI-E 3.0 x8 slots (Low-profile)
4. Intel® i350 GbE Controller; 4x ports
5. 36x Hot-swap 3.5" SAS2 (with LSI expander) / SATA3 HDD Bays; 24 front + 12 rear HDD Bays
6. Hardware RAID controller and JBOD Expansion; RAID 0, 1, 5, 6, 10, 50, 60
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 7x Heavy duty PWM fans
9. 1280W Redundant Power Supplies Platinum Level (95%)

Available Colors:

Black



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

Specifications

Product SKUs

- SSG-6047R-E1R36N ■ SuperServer 6047R-E1R36N (Black)

Motherboard

Super X9DRi-LN4F+

Processor/Cache

- CPU ■ Dual Socket R (LGA 2011)
 ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 130W TDP)

Note † BIOS version 3.0 or above is required

Cache ■ Up to 30MB

System Bus ■ QPI up to 8 GT/s

System Memory

- 24x 240-pin DDR3 DIMM sockets
- Up to 1.5TB DDR3 ECC LRDIMM

Chassis

Form Factor ■ 4U Rackmount

Model ■ CSE-847E16-R1K28LPB

Dimensions

Width ■ 17.2" (437mm)

Height ■ 7" (178mm)

Depth ■ 27.5" (699mm)

Weight ■ Net Weight: 67 lbs (30.4 kg)
 ■ Gross Weight: 104 lbs (47.2 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 Capacity	<ul style="list-style-type: none"> Up to 768GB DDR3 ECC Registered memory (RDIMM) Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 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® C602 Chipset
SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10
SAS AOC	<ul style="list-style-type: none"> LSI 2108 SAS2 RAID AOC (BBU optional) Hardware 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 Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 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"> Matrox G200eW
Super I/O	<ul style="list-style-type: none"> Nuvoton W83527

Input / Output

Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 8x SATA 2.0 ports (3Gbps)
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
JBOD	<ul style="list-style-type: none"> 2x JBOD Expansion Ports
USB	<ul style="list-style-type: none"> 9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)
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"> 3x PCI-E 3.0 x16 slots (Low-profile) 1x PCI-E 3.0 x8 slot (Low-profile)
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 36x Hot-swap 3.5" SAS / SATA HDD trays Double-sided: 24 front + 12 rear HDD Bays
Fixed	<ul style="list-style-type: none"> Optional Internal Drive Bracket supports 2x 2.5" or 1x 3.5" devices (up to 2 supported)

Backplane

SAS2 / SATA3 backplane

System Cooling

Fans	<ul style="list-style-type: none"> 7x 8cm hot-swap cooling fans Redundant cooling
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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"> 64Mb 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-X9DRi-LN4F+	1	Super X9DRi-LN4F+ Motherboard
	CSE-847E16-R1K28LPB	1	4U Chassis
Backplane	BPN-SAS2-826EL1	1	826 backplane with single LSI SAS2X28 expander chip
Backplane	BPN-SAS2-846EL1	1	Backplane supports upto 24 SAS/SATA
Cable 1	CBL-0281L	1	IPASS TO IPASS 75CM PBF. 26AWG
Cable 2	CBL-0296L	3	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 3	CBL-0352L-LP	1	External IPASS to Internal IPASS 85CM 2-PORT LP. 26AWG
Cable 4	CBL-0394L	1	IPASS TO IPASS 90CM PBF. 26AWG
CD	CDR-X9	1	Driver CD for X9 series
Heatsink / Retention	SNK-P0048P	2	2U Passive CPU Heat Sink for X9 Generation Motherboards w/ Square ILM
Power Supply	PWS-1K28P-SQ	2	1U 1280W, redundant single output power supply
Add On Card	AOC-SAS2LP-H8iR	1	2108 based SAS/SATA RAID- 8 internal ports/Low profile-PCI-E

Optional Parts List			
	Part Number	Qty	Description
BBU (Battery Backup Unit)	BTR-0018L-0000-LSI	-	Battery Backup for SAS 2108 (can be direct attached to card or connect by extension cable use BTR-0018L-Kit)
Drive Tray	MCP-220-84701-0N	-	Internal drive tray for one 3.5" HDD or two 2.5" HDD