

SuperStorage Server 6037R-E1R16N



Available Colors:

Black



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 slots (FHFL) and 1x PCI-E 3.0 x8 slot (FHHL)
4. Intel® i350 GbE Controller; 4x ports
5. 16x Hot-swap 3.5" SAS2 (with LSI expander) / SATA3 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. 3x Heavy duty PWM fans
9. 920W 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-6037R-E1R16N** ■ SuperServer 6037R-E1R16N (**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

- Memory Capacity**
- 24x 240-pin DDR3 DIMM sockets
 - Up to 1.5TB DDR3 ECC LRDIMM
 - Up to 768GB DDR3 ECC Registered memory (RDIMM)
 - Up to 192GB DDR3 ECC Un-Buffered memory (UDIMM)

Chassis

Form Factor ■ 3U Rackmount

Model ■ **CSE-836BE16-R920B**

Dimensions

Width ■ 17.2" (437mm)

Height ■ 5.2" (132mm)

Depth ■ 25.5" (648mm)

Weight

- Gross Weight: 79 lbs (35.8 kg)
- Net Weight: 48 lbs (21.8 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

Expansion Slots

- 3x PCI-E 3.0 x16 slots (Full-height, Full-length)

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 Renesas SH7757 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"> G200 (Renesas SH7757 BMC w/ graphic controller)
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

PCI-Express	<ul style="list-style-type: none"> 1x PCI-E 3.0 x8 slot (Full-height, Half-length)
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 16x Hot-swap 3.5" SAS / SATA Drive Bays
Optional OS Drive	<ul style="list-style-type: none"> 2x Rear Hot-swap 2.5" Drive Bays
Backplane	
SAS2 / SATA3 backplane	
System Cooling	
Fans	<ul style="list-style-type: none"> 3x 80mm Hot-swap 4-pin PWM Fans 2x 80mm Rear-exhaust 4-pin PWM Fans
Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V
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-836BE16-R920B	1	3U Chassis
Backplane	BPN-SAS2-836EL1	1	836 backplane with single LSI SAS2X28 expander chip
Cable 1	CBL-0062L	1	12V 8 TO 8 PIN POWER CONNECTOR EXTENSION, LF, 18AWG
Cable 2	CBL-0352L	1	External IPASS to Internal IPASS 85CM 2-PORT FH. 26AWG
Cable 3	CBL-0421L	1	55CM IPASS TO IPASS 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-920P-SQ	2	920W 1U Redundant PWS W/ Quiet Mode
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)
Rear Window	MCP-220-83605-0N	-	Rear hot-swap drive bay for 2x 2.5" drives