SuperStorage Server 6047R-E1R36N

Integrated Board

Super X9DRi-LN4F+

Available Colors: Black

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

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%)**

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	
Memory Capacity	▪ 24x 240-pin DDR3 DIMM sockets ▪ Up to 1.5TB DDR3 ECC LRDIMM memory (RDIMM) ▪ Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	▪ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	▪ 1.5 V, 1.35 V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

On-Board Devices	
Chipset	▪ Intel® C602 Chipset
SATA	▪ SATA 2.0 3Gbps with RAID 0, 1, 5, 10 ▪ SATA 3.0 6Gbps with RAID 0, 1, 5, 10
SAS AOC	▪ LSI 2108 SAS2 RAID AOC (BBU optional) ▪ Hardware RAID 0, 1, 5, 6, 10, 50, 60
IPMI	▪ 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	▪ 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	▪ Matrox G200eW
Super I/O	▪ Nuvoton W83527

Input / Output	
Serial ATA	▪ 2x SATA 3.0 ports (6Gbps) ▪ 8x SATA 2.0 ports (3Gbps)
LAN	▪ 4x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
JBOD	▪ 2x JBOD Expansion Ports
USB	▪ 9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)
VGA	▪ 1x VGA port
Serial Port / Header	▪ 1x Fast UART 16550 port / 1 Header

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

Expansion Slots	
PCI-Express	▪ 3x PCI-E 3.0 x16 slots (Low-profile) ▪ 1x PCI-E 3.0 x8 slot (Low-profile)

Drive Bays	
Hot-swap	▪ 36x Hot-swap 3.5" SAS / SATA HDD trays Double-sided: 24 front + 12 rear HDD Bays
Fixed	▪ Optional Internal Drive Bracket suppports 2x 2.5" or 1x 3.5" devices (up to 2 supported)

Backplane
SAS2 / SATA3 backplane

System Cooling	
Fans	▪ 7x 8cm hot-swap 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	▪ 64Mb 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

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