

SuperStorage Server 6027R-E1CR12L



Available Colors: Black

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
3. 6x PCI-E 3.0 x8 (LP, HL); Slots 1 & 2 occupied by HBA, JBOD expansion port
4. Intel® i350 GbE Controller; 2x ports
5. 12x 3.5" Hot-swap SAS3/SATA3 HDD bays w/ SES2; Optional 2x 2.5" Hot-swap HDD bays (rear)
6. SAS3 via LSI 3008 HBA
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 3x 8cm high-performance 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-6027R-E1CR12L	▪ SuperServer 6027R-E1CR12L (Black)
Motherboard	
<u>Super X9DRD-EF</u>	
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	▪ 16x 240-pin DDR3 DIMM slots ▪ Up to 1TB DDR3 ECC LRDIMM ▪ Up to 512GB DDR3 ECC Registered memory (RDIMM) ▪ Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)

Chassis	
Form Factor	▪ 2U Rackmount
Model	▪ <u>CSE-826BE1C-R920LPB</u>
Dimensions	
Width	▪ 17.2" (437mm)
Height	▪ 3.5" (89mm)
Depth	▪ 25.5" (648mm)
Gross Weight	▪ 61 lbs (27.7 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
Expansion Slots	
PCI-	▪ 6x PCI-E 3.0 x8 slots (Low-profile, HL)

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® C602J 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
SAS3 AOC	<ul style="list-style-type: none"> SAS3 via LSI 3008 AOC; IT Mode/Pass-through
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

Input / Output

Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SAS	<ul style="list-style-type: none"> 8x SAS3 ports (12Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 9x USB 2.0 ports total (4 rear + 4 via header + 1 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

Express	Slot 1 & 2 Occupied by JBOD Expansion Port and HBA
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 12x 3.5" Hot-swap SAS3/SATA3 HDD bays w/ SES2
Optional	<ul style="list-style-type: none"> 2x 2.5" Hot-swap HDD bays (rear)

Backplane

SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ LSISAS3x28 expander, support 12x 3.5" drives, with 4x mini-SAS HD connectors, 2 for uplink and another 2 for downlink

System Cooling

Fans	<ul style="list-style-type: none"> 3x 8cm 9.5K RPM, 4-pin PWM fans
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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]
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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-X9DRD-EF	1	Super X9DRD-EF Motherboard
	CSE-826BE1C-R920LPB	1	2U Chassis
Backplane	BPN-SAS3-826EL1	1	SAS 12G single expander backplane, with LSISAS3x28 expander, support 12x 3.5
Cable 1	CBL-SAST-0532	2	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
Cable 2	CBL-SAST-0531	2	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s, HF,RoHS/REACH,PBF
CD	CDR-X9	1	Driver CD for X9 series
Heatsink / Retention	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Drive Tray(s)	MCP-220-00075-0B	12	Black 3.5" HDD tray
Add On Card	AOC-S3008L-L8E-O-P	1	12Gbps SAS3/HBA/ 2 internal HD connectors/STD Gen3 PCI/122 HD support
Add On Module	AOM-SAS3-16116E-LP	1	16-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket, RoHS/REACH, PBF

Optional Parts List

	Part Number	Qty	Description
Rear Window	MCP-220-82609-0N	-	Rear hot-swap drive bay for 2x 2.5" drives
HDD Bracket	MCP-220-82611-0N	1	Dual 2.5" fixed HDD tray
	CBL-0473L	2	HDD SATA Cable
	CBL-0289L	1	HDD Power Cable