## Products ▶ Systems ▶ 2U ▶ [ 5028R-E1CR12L ]



<u>Drivers & Utilities</u> <u>▶BIOS</u> <u>▶IPMI</u> <u>▶Manuals</u>

## **Key Features**

- 1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QP up to 9.6GT/s
- 2. Up to 512GB EOC DDR4 2133MHz; 8x DIMMsockets
- 3. 1 PCI-E3.0 x8 (in x16), 2 PCI-E3.0 x8, 1 PCI-E3.0 x8 (in x16), 1 PCI-E2.0 x2 (in x4), 1 PCI-E2.0 x4 (in x8)
- 4. Intel® i350-AM4 Quad port GbELAN
- 5. 12x 3.5" Hot-swap SAS3 HDD bays; Opt. 2x 2.5" Hot-swap HDD bays (rear)
- 6. SAS3 via LSI 3008 controller; IR mode 7. Server remote management: IFM 2.0 / KVM over LAN / Media over LAN
- 8. 3x 8cmhigh-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

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SSG-5028R- E1CR12L	■ SuperServer 5028R-E1CR12L (Black)
Motherboard	
Super X10SRI	+CLN4F
Processor	
CPU	<ul> <li>Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP **)</li> <li>Single Socket R3 (LGA 2011)</li> </ul>
Core / Cache	■ Up to 18 Cores / Up to 45MB Cache
Note	** Motherboard supports this maximum TDP: Rease verify your system can thermally support

Product SKLIs

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ry
<ul> <li>8x 284-pin DDR4 DIMMsockets</li> <li>Up to 512GB DDR4 ECC LRDIMM</li> <li>Up to 256GB DDR4 ECC RDIMM</li> </ul>
■ 2133/1866/1600/1333MHz EOC DDR4 SDRAM72-bit, 284-pin gold-plated DIMMs
■ RDIMM: 32GB, 16GB, 8GB, 4GB
■ 1.2 V
<ul> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
ces
■ Intel C612 Express chipset

On-Board Devi	ces
Chipset	■ Intel C612 Express chipset
SAS	<ul> <li>SAS3 (12Gbps) via LSI 3008 (IR mode)</li> <li>SW RAID 0, 1, 10</li> </ul>
IPMI	<ul> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPM 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
Network Controllers	<ul> <li>Intel® i350-AM4 Quad Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N P-IY (dedicated IPM)</li> </ul>
Graphics	■ ASPEED AST2400 BMC
Input / Output	
SAS	8x SAS3 (12Gbps) ports
SATA	■ 10x SATA3 (6Gbps) ports

4x RJ45 Gigabit Ethernet LAN ports

 1x RJ45 Dedicated IPM LAN port 2x USB 3.0 ports (rear)

■ 1x Fast UART 16550 port / 1 Header

2x USB 2.0 ports (rear)

1x VGA port

ins	
Chassis	
Form Factor	■ 2U Rackmount
Model	■ CSE-826BE1C-R920LPB
Dimensions	
Width	■ 17.2" (437mm)
Height	3.5" (89mm)
Depth	25.6" (648mm)
-	Gross Weight: 58 lbs (26.3 kg)
Weight	Net Weight: 34 lbs (15.4 kg)
Available	■ Black
Colors	Back
Front Panel	
	■ Power On/Off button
Buttons	■ System Reset button
	Power status LED
LEDs	<ul><li>Hard drive activity LED</li><li>2x Network activity LEDs</li></ul>
LLLS	System Overheat LED
	■ Power fail LED
Expansion Slots	
Expansion Siots	1x PCI-E3.0 x4 (in x8) slot
	1x PO-E3.0 x8 (in x16) slot
PCI-Express	2x PO-E3.0 x8 slots
	<ul><li>1x PO-E2.0 x2 (in x4) slot</li><li>1x PO-E2.0 x4 (in x8) slot</li></ul>
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Drive Bays	
Drive Bays Hot-swap	■ 12x 3.5" Hot-swap SAS3 HDD bays
	■ 12x 3.5" Hot-swap SAS3 HDD bays ■ 2x 2.5" Hot-swap HDD bays (rear)
Hot-swap Optional	· · · · · · · · · · · · · · · · · · ·
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Hot-swap Optional Backplane SAS3 Backplane	2x 2.5" Hot-swap HDD bays (rear)  SAS3 12Gbps single expander backplane, w/
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp	2x 2.5" Hot-swap HDD bays (rear)  SAS3 12Gbps single expander backplane, w/ bander, support 12x 3.5" drives, with 4x mini-SAS
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp	2x 2.5" Hot-swap HDD bays (rear)  SAS3 12Gbps single expander backplane, w/
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Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v	2x 2.5" Hot-swap HDD bays (rear)  Standard Sample expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  3x 8cm9.5K RFM, 4-pin PWMfans  with Power Distributor
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp. HD connectors, 2  System Cooling Fans  Power Supply v 920W high-effici	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  E: SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, w/ pander,
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with PMBus and	2x 2.5" Hot-swap HDD bays (rear)  SAS3 12Gbps single expander backplane, w/ bander, support 12x 3.5" drives, with 4x mini-SAS for uplink and another 2 for downlink  3x 8cm9.5K RFM, 4-pin PVMfans  with Power Distributor ency (94%+) AC-DC Redundant power supplies 12C
Hot-swap Optional Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2 System Cooling Fans Power Supply v 920W high-efficie with PMBus and AC Input	2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/ bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  3x 8cm9.5K RFM, 4-pin PVMfans  with Power Distributor  ency (94%+) AC-DC Redundant power supplies 12C  100-240 V, 50-60 Hz, 11-4.5 Amp
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Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v  920W high-effici with PMBus and AC Input  DC Output	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/ bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  ■ 3x 8cm9.5K RPM 4-pin PVM fans  with Power Distributor ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby ■ 75 Amp @ +12V  Platinum Certified
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Hot-swap Optional Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2 System Cooling Fans Power Supply v 920W high-efficie with PMBus and AC Input DC Output Certification System BIOS	2
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Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with FMBus and AC Input DC Output  Certification  System EIOS BIOS Type  BIOS	■ 2x 2.5" Hot-swap HDD bays (rear)  Exact SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink and another 2 for downlink  By SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink and another 2 for downlin
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with FMBus and AC Input DC Output  Certification  System EIOS BIOS Type  BIOS	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: 3x 8cm9.5K RPM 4-pin PVMfans  with Power Distributor ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby ■ 75 Amp @ +12V  Platinum Certified Test Report 1  ■ 128Mb SR Rash EEPROMwith AM BIOS ■ Rug and Ray (PhP) ■ APM 1.2 ■ PCI 2.2 ■ ACP 1.0 / 2.0 ■ USB Keyboard support
Hot-swap Optional  Back plane SAS3 Backplane LSISAS3x28 exp. HD connectors, 2  System Cooling Fans  Power Supply v 920W high-effici with FMBus and AC Input  DC Output  Certification  System BIOS BIOS Type  BIOS Features	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: 3x 8cm9.5K RFM, 4-pin PVMfans  with Power Distributor ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby ■ 75Amp @ +12V    Platinum Certified   Test Report     Test Report     128Mb SR Flash   PROMwith AM BIOS   Rug and Ray (PhP)   APM1.2   ROI 2.2   ACPI 1.0 / 2.0   USB Keyboard support   SMBIOS 2.3   UEFI
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with PMBus and AC Input DC Output  Certification  System BIOS BIOS Type  BIOS Features	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: 3x 8cm9.5K RFM, 4-pin PVMfans  with Power Distributor ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby ■ 75Amp @ +12V    Platinum Certified Test Report    ■ 128Mb SR Rash
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Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with PMBus and AC Input DC Output  Certification  System BIOS BIOS Type  BIOS Features	■ 2x 2.5" Hot-swap HDD bays (rear)  Exact SAS3 12Gbps single expander backplane, w/ bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink  Bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink another 2 for downlink another 2 fo
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with PMBus and AC Input DC Output  Certification  System BIOS BIOS Type  BIOS Features  Operating Envir	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: 3x 8cm9.5K RPM 4-pin PVM fans  with Power Distributor ency (94%+) AC-DC Redundant power supplies 2C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @+5V standby ■ 75 Amp @+12V  Platinum Certified [Test Report]  ■ 128Wb SR Flash EEPROM with AM BIOS ■ Rug and Ray (PhP) ■ APM 1.2 ■ PO 2.2 ■ ACP 1.0 / 2.0 ■ USB Keybcard support ■ SMBIOS 2.3 ■ UEFI  **Comment / Compliance ■ RoHS Compliant ■ Operating Temperature: 10°C to 35°C (50°F to 95°F) ■ Non-operating Temperature:
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficit with PMBus and AC Input DC Output  Certification  System BIOS BIOS Type  BIOS Features  Operating Envir RoHS  Environmental	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: 3x 8cm9.5K RPM 4-pin PVM fans  with Power Distributor  ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby  75Amp @ +12V  Platinum Certified Test Report 1  ■ 128Mb SR Rash EPROMwith AM BIOS  ■ Rug and Ray (PnP)  ■ APM 1.2  ■ PC 2.2  ■ ACP 1.0 / 2.0  ■ USB Keyboard support  ■ SMBIOS 2.3  ■ UEFI  Comment / Compliance  ■ RoHS Compliant  ■ Operating Temperature:  10°Cto 35°C (50°F to 95°F)  ■ Non-operating Temperature:  -40°Cto 70°C (-40°F to 158°F)
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficie with PMBus and AC Input DC Output  Certification  System BIOS BIOS Type  BIOS Features  Operating Envir	■ 2x 2.5" Hot-swap HDD bays (rear)  Ex SAS3 12Gbps single expander backplane, w/ pander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  By  ■ 3x 8cm9.5K RPM, 4-pin PWM fans  With Power Distributor  ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby ■ 75Amp @ +12V  Platinum Certified [Test Report]  ■ 128Mb SPI Flash EEPROM with AM BIOS  ■ Rug and Ray (PhP) ■ APM1.2 ■ PG 2.2 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3 ■ UEFI  Conment / Compliance ■ RoHS Compliant ■ 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:
Hot-swap Optional  Backplane SAS3 Backplane LSISAS3x28 exp HD connectors, 2  System Cooling Fans  Power Supply v 920W high-efficit with PMBus and AC Input DC Output  Certification  System BIOS BIOS Type  BIOS Features  Operating Envir RoHS  Environmental	■ 2x 2.5" Hot-swap HDD bays (rear)  E: SAS3 12Gbps single expander backplane, w/bander, support 12x 3.5" drives, with 4x mini-SAS 2 for uplink and another 2 for downlink  B: 3x 8cm9.5K RPM 4-pin PVM fans  with Power Distributor  ency (94%+) AC-DC Redundant power supplies 12C  ■ 100-240 V, 50-60 Hz, 11-4.5 Amp  ■ 4Amp @ +5V standby  75Amp @ +12V  Platinum Certified  [Test Report ]  ■ 128Mb SR Rash EHROM with AM BIOS  ■ Rug and Ray (PhP)  ■ APM 1.2  ■ PC 1.2.2  ■ ACP 1.0 / 2.0  ■ USB Keyboard support  ■ SMBIOS 2.3  ■ UEFI  **Comment / Compliance  ■ RoHS Compliant  ■ Operating Temperature:  10°Cto 35°C (50°F to 95°F)  ■ Non-operating Temperature:  -40°C to 70°C (-40°F to 158°F)

Parts List

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