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SAS3 HW RAID controller Storage Expandable

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### Key Features

- Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
- Up to **2TB<sup>†</sup>** ECC 3DS LRDIMM , up to DDR4- **2400<sup>†</sup>**MHz ; 16x DIMM slots
- 1x PCI-E 3.0 x16, 6x PCI-E 3.0 x8 (slot 1 & 2 occupied by controller and JBOD expansion port)
- Dual 10GBase-T LAN w/ Intel® X540
- 12x 3.5" Hot-swap drive bays:  
8x 3.5" Hot-swap SAS3/SATA3 drive bays and 4x NVMe hybrid drive bays (SAS3/SATA3/NVMe\*); 2x 2.5" optional Hot-swap SATA drive bays (rear)
- SAS3 via LSI 3108 AOC (HW RAID)
- Server remote management: IPMI 2.0 /KVM over LAN / Media over LAN
- 3x 8cm hot-swap redundant PWM cooling fans
- 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	
<b>SSG-6028R-E1CR12H</b>	▪ SuperServer 6028R-E1CR12H (Black)
Motherboard	
<b>Super X10DRH-iT</b>	
Processor/Cache	
<b>CPU</b>	▪ Intel® Xeon® processor E5-2600 v4 <sup>†</sup> / v3 family (up to 145W TDP) * ▪ Dual Socket R3 (LGA 2011)
<b>Cores / Cache</b>	▪ Up to 22 Cores <sup>†</sup> / Up to 55MB <sup>†</sup> Cache
<b>System Bus</b>	▪ QPI up to 9.6 GT/s
<b>Note</b>	<sup>†</sup> BIOS version 2.0 or above is required
<b>Note</b>	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
System Memory	
<b>Memory Capacity</b>	▪ 16x 288-pin DDR4 DIMM slots ▪ Up to 2TB <sup>†</sup> ECC 3DS LRDIMM, 512GB ECC RDIMM
<b>Memory Type</b>	▪ 2400 <sup>†</sup> /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
<b>DIMM Sizes</b>	▪ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB ▪ 3DS LRDIMM: 128GB
<b>Memory Voltage</b>	▪ 1.2 V
<b>Error Detection</b>	▪ Corrects single-bit errors
On-Board Devices	
<b>Chipset</b>	▪ Intel® C612 chipset
<b>SAS</b>	▪ SAS3 (12Gbps) via LSI 3108 AOC; HW RAID 0,1,5,6,10,50,60
<b>SATA</b>	▪ SATA3 (6Gbps) with RAID 0, 1, 5, 10
<b>IPMI</b>	▪ Support for Intelligent Platform Management Interface v2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ ASPEED AST2400 BMC
<b>Network Controllers</b>	▪ Intel® X540 Dual Port 10GbE ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1 Realtek RTL8201N PHY (dedicated IPMI)
<b>Graphics</b>	▪ ASPEED AST2400 BMC
Input / Output	
<b>LAN</b>	▪ 2 RJ45 10GBase-T LAN ports ▪ 1 RJ45 Dedicated IPMI LAN port
<b>USB</b>	▪ 2 USB 3.0 ports (rear) ▪ 2 USB 2.0 ports (rear) ▪ 1 Type A
<b>VGA</b>	▪ 1 VGA port
<b>Serial Port / Header</b>	▪ 1 Fast UART 16550 port / 1 Header

Chassis	
<b>Form Factor</b>	▪ 2U Rackmount
<b>Model</b>	▪ <a href="#">CSE-826BE1C-R920LPB</a>
Dimensions	
<b>Width</b>	▪ 17.2" (437mm)
<b>Height</b>	▪ 3.5" (89mm)
<b>Depth</b>	▪ 25.6" (648mm)
<b>Weight</b>	▪ Gross Weight: 58 lbs (26.3 kg) ▪ Net Weight: 34 lbs (15.4 kg)
<b>Available Colors</b>	▪ Black
Front Panel	
<b>Buttons</b>	▪ Power On/Off button ▪ System Reset button
<b>LEDs</b>	▪ Power status LED ▪ Hard drive activity LED ▪ 2 Network activity LEDs ▪ System Overheat LED ▪ Power fail LED
Expansion Slots	
<b>PCI-Express</b>	▪ 1 PCI-E 3.0 x16 slot ▪ 6 PCI-E 3.0 x8 slots ▪ Slot 1 & 2 occupied by controller and JBOD Expansion Port
Drive Bays	
<b>Hot-swap</b>	▪ 12x 3.5" Hot-swap SAS3/SATA3 drive bays
<b>Optional</b>	▪ 2x 2.5" Hot-swap SATA drive bays (rear)
Backplane	
SAS3/SATA3 single expander per backplane	
System Cooling	
<b>Fans</b>	▪ 3x 8cm hot-swap redundant PWM cooling fans
Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
<b>AC Input</b>	▪ 100-240 V, 50-60 Hz, 11-4.5 Amp
<b>DC Output</b>	▪ 4 Amp @ +5V standby ▪ 75 Amp @ +12V
<b>Certification</b>	<div><div><div>80 PLUS PLATINUM</div></div><div><div>94</div></div><div>Platinum Certified [ <a href="#">Test Report</a> ]</div></div>
System BIOS	
<b>BIOS Type</b>	▪ 128Mb SPI Flash EEPROM with AMI BIOS
<b>BIOS Features</b>	▪ 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	
<b>RoHS</b>	▪ RoHS Compliant
<b>Environmental Spec.</b>	▪ 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](#)

**Note:** \* NVMe support requires additional parts in optional parts list