



SuperStorage Server 6028R-E1CR16T

Products > Systems > 2U > [6028R-E1CR16T]



SAS3 HW RAID controller

Integrated Board



Super X10DRH-CT

Key Features

1. Dual socket R3 (LGA 2011) sup Intel® Xeon® processor E5-260 v4†/ v3 family; QPI up to 9.6GT/s
2. Up to **2TB†** ECC 3DS LRDIMM DDR4- **2400†**MHz ; 16x DIMM slots
3. 1x PCI-E 3.0 x16, 6x PCI-E 3.0 x1
4. Dual 10GBase-T LAN w/ Intel® Ethernet Controller
5. 16x 3.5" Hot-swap drive bays: 12x 3.5" Hot-swap SAS3 drive bays and 4x NVMe hybrid drive bays (SAS3/SATA3/NVMe*); 2x 2.5" Hot-swap SATA drive bays (rear)
6. SAS3 via Broadcom 3108 controller RAID
7. Server remote management: IPMI / KVM over LAN / Media over LAN
8. 4x 8cm hot-swap redundant PWM cooling fans
9. 1000W Redundant Power Supply **Titanium Level**

[Drivers & Utilities](#) > [BIOS](#) > [IPMI](#) > [Tested Memory](#) > [NVMe Options](#) > [Manuals](#) > [OS Certification Matrix](#) > [Drive Options](#)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SSG-6028R-E1CR16T	■ SuperServer 6028R-E1CR16T (Black)
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Motherboard

Super X10DRH-CT

Processor/Cache

CPU	■ Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W TDP) * ■ Dual Socket R3 (LGA 2011)
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Cores / Cache	■ Up to 22 Cores† / Up to 55MB† Cache
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System Bus	■ QPI up to 9.6 GT/s
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Note	† BIOS version 2.0 or above is required
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Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
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System Memory

Chassis

Form Factor	■ 2U Rackmount
Model	■ CSE-829HTS-R1K02LPB

Dimensions

Width	■ 17.2" (437mm)
Height	■ 3.5" (89mm)
Depth	■ 25.5" (647mm)

Weight	■ Gross Weight: 58 lbs (26.3 kg) ■ Net Weight: 34 lbs (15.4 kg)
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Available Colors	■ Black
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Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power status LED ■ Hard drive activity LED ■ 2 Network activity LEDs ■ System Overheat LED ■ Power fail LED

Expansion Slots

Memory Capacity	<ul style="list-style-type: none"> 16x 288-pin DDR4 DIMM slots Up to 2TB† ECC 3DS LRDIMM, 512GB ECC RDIMM
Memory Type	<ul style="list-style-type: none"> 2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 3DS LRDIMM: 128GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via Broadcom 3108 controllers; HW 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 ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> 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)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
SAS	<ul style="list-style-type: none"> 16 SAS3 (12Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear) 2 USB 2.0 ports (rear) 1 Type A
VGA	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 port / 1 Header

PCI-Express	<ul style="list-style-type: none"> 1 PCI-E 3.0 x16 slot 6 PCI-E 3.0 x8 slots
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Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 16x 3.5" Hot-swap SAS3 drive bays
Optional	<ul style="list-style-type: none"> 2x 2.5" Hot-swap SATA drive bays (re)

Backplane	
SAS3 expander backplane	

System Cooling	
Fans	<ul style="list-style-type: none"> 4x 8cm hot-swap redundant PWM cool fans

Power Supply	
1000W Redundant Power Supplies with PMBus	

Total Output Power	<ul style="list-style-type: none"> 800W/1000W
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Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 203 mm
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Input	<ul style="list-style-type: none"> 100-127Vac / 9.8 - 7A / 50-60Hz 200-240Vac / 7 - 5A / 50-60Hz
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+12V	<ul style="list-style-type: none"> Max: 66.7A / Min: 0A (100-127Vac) Max: 83A / Min: 0A (200-240Vac)
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12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
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Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
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Certification	 
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System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI I
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

[See Parts List](#)

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

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