

SuperServer 1028U-E1CR4+ (Complete System Only)



Integrated Board



X10DRU-i+

Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to **3TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 24x DIMM slots
3. 2x PCI-E 3.0 x16 slots (FH, 10.5" L), 2x PCI-E 3.0 x8 slots (LP, 1 internal)
4. 4x Gigabit Ethernet LAN ports
5. 10x Hot-swap 2.5" drive bays: 10x SAS3/SATA3 ports via Expander and AOC: AOC-S3108L-H8iR-16DD, AOC-S3108L-H8iR, AOC-S3008L-L8e, AOC-S3008L-L8i
6. 5x heavy duty fans w/ optimal fan speed control
7. 750W Redundant Power Supplies **Platinum Level (94%+)**

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 2 CPUs and 4 DIMMs).

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Manuals](#)
 ▶ [OS Certification Matrix](#) ▶ [Drive Options](#) ▶ [Network Card \(AOC\) Matrix](#)

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

Product SKUs

SYS-1028U-E1CR4+ ■ SuperServer 1028U-E1CR4+ (Black)

Chassis

Form Factor ■ 1U Rackmount
Model ■ CSE-119UTS-R751P-T



Motherboard

Super X10DRU-i+

Processor/Cache

- CPU**
- Intel® Xeon® processor E5-2600 v4[†]/ v3 family (up to 160W TDP) *
 - Dual Socket R3 (LGA 2011)

- Cores / Cache**
- Up to **22 Cores**[†] / Up to **55MB**[†] Cache

- System Bus**
- QPI up to 9.6 GT/s

- Note**
- [†] BIOS version 2.0 or above is required

- Note**
- * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

- Memory Capacity**
- 24x 288-pin DDR4 DIMM slots
 - Up to 3TB[†] ECC 3DS LRDIMM, 1.5TB ECC RDIMM/LRDIMM

- Memory Type**
- 2400**[†]/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
 - 2666/2400 ECC DDR4 NVDIMM

- DIMM Sizes**
- RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB
 - LRDIMM: 64GB, 32GB
 - 3DS LRDIMM: 128GB
 - NVDIMM: 16GB

- Memory Voltage**
- 1.2 V

- Error Detection**
- Corrects single-bit errors

On-Board Devices

- Chipset**
- Intel® C612 chipset

- SATA**
- SATA3 (6Gbps) with RAID 0, 1, 5, 10

- IPMI**
- 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 Connectivity**
- 4x GbE ports via [AOC-UR-i4G](#)
 - Intel® i350 Gigabit Ethernet Controller
 - 1x Realtek RTL8211E PHY (dedicated IPMI)

- Graphics**
- ASPEED AST2400 BMC

Dimensions and Weight

- Height**
- 1.7" (43mm)

- Width**
- 17.2" (437mm)

- Depth**
- 28.5" (724mm)

- Weight**
- Net Weight: 26 lbs (11.8 kg)
 - Gross Weight: 41 lbs (18.6 kg)

- Available Color**
- Black

Front Panel

- Buttons**
- Power On/Off button
 - System Reset button

- LEDs**
- Power LED
 - Hard drive activity LED
 - 2x Network activity LEDs
 - System Overheat LED / Fan fail LED / UID LED

Expansion Slots

- PCI-Express**
- 2x PCI-E 3.0 x16 slots (Full-height, 10.5" L)
 - 2x PCI-E 3.0 x8 slots (Low-profile, 1 internal)

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and [AOC Support](#) for details.)

Drive Bays

- Hot-swap**
- 10x 2.5" Hot-swap drives supported via expander

System Cooling

- Fans**
- 5x heavy duty fans with optimal fan speed control
 - 3x additional fans optional

- Air Shroud**
- 1x Air Shroud

Input / Output

SAS	<ul style="list-style-type: none"> 10x SAS3 ports support via expander and storage Add-on Cards One of the following storage Add-on cards required: AOC-S3108L-H8iR-16DD (12Gbps SAS3/RAID 0, 1, 5, 6, 10, 50, 60, 2GB DDR3 cache, PCI-E Gen3 16 HDD) AOC-S3108-H8iR (12Gbps SAS3/RAID 0, 1, 5, 6, 10, 50, 60, 2GB DDR3 cache, PCI-E Gen3) AOC-S3008L-L8i (12Gbps SAS3/RAID 0,1 and 10, PCI-E Gen3) AOC-S3008L-L8e (12Gbps SAS3/HBA, PCI-E Gen3)
LAN	<ul style="list-style-type: none"> 4x RJ45 GbE LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 5x USB 3.0 ports (2 rear, 2 front, 1 Type A)
Video	<ul style="list-style-type: none"> 1x VGA Connector
Serial Port	<ul style="list-style-type: none"> 1x Serial header

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 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5 Intel® Node Manager 3.0 Watch Dog NMI SUM and SSM Optional IPMI 1.5 / 2.0
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery

Power Supply

750W Redundant AC-DC Power Supplies, +12V/+12Vsb output

AC Input	<ul style="list-style-type: none"> 100-127Vac, 50-60Hz 200-240Vac, 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 62.5A & Min: 0A (100Vac-127Vac) Max: 62.5A & Min: 0A (200Vac-240Vac)
12V SB	<ul style="list-style-type: none"> Max: 2.1A Min: 0A
Certification	 Platinum Level [Test Report]

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. 5+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> 8x 4-pin fan headers Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Support to monitor Supermicro AOC temperatures from IPMI or SD 5 Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> Memory DIMM ECC error LEDs CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> 4x 8-pin GPU power connectors Chassis intrusion detection Chassis intrusion header SDDC Support RoHS

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)
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