

SuperServer 1029U-E1CRT (Complete System Only)



Integrated Board



[\(/products/motherboard/Xeon/C620/X11DPU.cfm\)](/products/motherboard/Xeon/C620/X11DPU.cfm)

[X11DPU \(/products/motherboard/Xeon/C620/X11DPU.cfm\)](/products/motherboard/Xeon/C620/X11DPU.cfm)

Views: | [Angled View \(/a_images/products/views/1029U-E1CRT_angle.jpg\)](/images/products/views/1029U-E1CRT_angle.jpg) | [Top View \(/a_images/products/views/1029U-E1CRT_top.jpg\)](/images/products/views/1029U-E1CRT_top.jpg) |

[Front View \(/a_images/products/views/1029U-E1CRT_front.jpg\)](/images/products/views/1029U-E1CRT_front.jpg) | [Rear View \(/a_images/products/views/1029U-E1CRT_rear.jpg\)](/images/products/views/1029U-E1CRT_rear.jpg) |

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

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#)

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=85706&ProductName=SS1029U-E1CRT\)](/en/support/resources/m2ssd?SystemID=85706&ProductName=SS1029U-E1CRT)

[Manuals](#)

[OS Certification Matrix \(/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D1029U%2DE1CRT\)](/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D1029U%2DE1CRT)

[Compatible GPU List \(/en/support/resources/gpu\)](/en/support/resources/gpu)

[Quick-References Guide](#) | [Drive Options](#)

[Network Card \(AOC\) Matrix \(/en/support/resources/aoc/standard?show=SELECT&type=Ultra\)](/en/support/resources/aoc/standard?show=SELECT&type=Ultra)

Key Applications

- Virtualization
- Cloud Computing
- High End Enterprise Server

Key Features

1. Dual Socket P (LGA 3647) support
2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)‡
2. 24 DIMMs; up to 6TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM††
3. 2 PCI-E 3.0 x16 slots (FH, 10.5" L), 2 PCI-E 3.0 x8 slots (1 LP, 1 internal LP)
4. 2x 10GBase-T Ethernet ports
5. 10 Hot-swap 2.5" drive bays:
10 SAS3/SATA3 ports via Expander and AOC;
Optional M.2 NVMe and SATA3 ports
6. 8 heavy duty fans w/ optimal fan speed control
7. 750W Redundant Power Supplies
Platinum Level (94%+)

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

Specifications

Product SKUs

SYS-1029U-E1CRT

SuperServer 1029U-E1CRT (Black)

Motherboard

Super X11DPU

(</products/motherboard/Xeon/C620/X11DPU.cfm>).

Processor

CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[‡],

Dual UPI up to 10.4GT/s

Support CPU TDP 70-205W

Cores

Up to 28 Cores

Note

[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).

Extended thermal solutions may be required to support CPUs higher than 165W TDP, please contact Supermicro Technical Support for additional information.

System Memory

Memory Capacity

24 DIMM slots

Up to 6TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM

Supports Intel® Optane™ DCPMM^{††}

Memory Type

2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

2666 ECC DDR4 NVDIMM

Note

[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset

Intel® C621 chipset

SATA

SATA3 (6Gbps); RAID 0, 1, 5, 10

Network Connectivity

2 10GBase-T ports via

(/support/resources/aoc/aoc_compatibility_ultra.cfm)

)AOC-UR-I2XT (Intel® X540)

IPMI

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Graphics

ASPEED AST2500 BMC

Input / Output

SAS

10 SAS3 ports support via expander and storage Add-on Cards

LAN

2 RJ45 10GBase-T Ethernet ports

1 RJ45 Dedicated IPMI LAN port

Chassis

Form Factor

1U Rackmount

Model

CSE-119UTS-R751P-T

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

Network activity LEDs

System Overheat LED / Fan fail LED /

UID LED

Expansion Slots

PCI-Express

2 PCI-E 3.0 x16 (Full-height, 10.5" L)

2 PCI-E 3.0 x8 (1 LP, 1 internal LP)

(Both CPUs need to be installed for full access to PCI-E onboard controllers. See manual block diagram and [A Support \(/products/nfo/UIO.cfm?show=AOCsupport\)](/products/nfo/UIO.cfm?show=AOCsupport) details.)

Drive Bays / Storage

Hot-swap

10 Hot-swap 2.5" drives supported via expander

M.2

1 M.2 PCI-E 3.0 x4 M-Key NVMe or 1 M.2 M-Key SATA3 (2240/2260/2280/2 optional riser card (see optional parts list)

2 M.2 PCI-E 3.0 x4 M-Key NVMe (2260/2280/22110) via optional add-on c SLG3-2M2

System Cooling

Fans

8 Heavy duty fans with optimal fan speed control

Air Shroud

1 Air Shroud

Power Supply

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

AC Input

100-127Vac, 50-60Hz

200-240Vac, 50-60Hz

USB

5 USB 3.0 ports
(2 rear, 2 front, 1 Type A)

Video

2 VGA ports (1 rear, 1 onboard)

Serial Port

1 Serial header

System BIOS**BIOS Type**

AMI 32Mb SPI Flash ROM

Management**Software**

Intel® Node Manager

[Redfish API \(/solutions/Redfish.cfm\)](/solutions/Redfish.cfm)

[IPMI 2.0 \(/solutions/IPMI.cfm\)](/solutions/IPMI.cfm)

KVM with dedicated LAN

NMI

[SSM \(/solutions/SMS_SSM.cfm\)](/solutions/SMS_SSM.cfm), [SPM](/solutions/SMS_SPM.cfm)

[\(/solutions/SMS_SPM.cfm\)](/solutions/SMS_SPM.cfm), [SUM](/solutions/SMS_SUM.cfm)

[\(/solutions/SMS_SUM.cfm\)](/solutions/SMS_SUM.cfm)

[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](/solutions/SMS_SD5.cfm)

Power Configurations

ACPI Power Management

PC Health Monitoring**CPU**

Monitors for CPU Cores, Chipset Voltages, Memory.

4+1 Phase-switching voltage regulator

FAN

Fans with tachometer monitoring

Status monitor for speed control

Pulse Width Modulated (PWM) fan connectors

Temperature

Monitoring for CPU and chassis environment

Thermal Control for fan connectors

Parts List**+12V**

Max: 62.5A & Min: 0A (100Vac-127Vac)

Max: 62.5A & Min: 0A (200Vac-240Vac)

12V SB

Max: 2.1A

Min: 0A

Certification

<http://www.plugloadsolutions.com/80PlusPowerSupply>

[id=69&type=2](http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=2)). **Platinum Level**

**[Test Report**

[\(/products/powersupply/80PLUS/80PLUS_PWS-750P-](/products/powersupply/80PLUS/80PLUS_PWS-750P-)

Operating Environment**RoHS**

RoHS Compliant

Environmental Spec.

Operating Temperature:

10°C ~ 35°C (50°F ~ 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:

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)
