

Supermicro SuperServer SYS-2029U-E1CRT 2U DP 24xSFF 2x10GbE RED PSU

Part number: SYS-2029U-E1CRT



Chassis Form Factor	Rack 2U
CPU Socket	LGA 3647 (Socket P)
# of CPU sockets	2
Supported CPU's	Intel Xeon Scalable 2nd Gen Intel Xeon Scalable 1st Gen
Max CPU TDP	205 W
Chipset	Intel C621
Memory Type	DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2666 MHz 2400 MHz 2133 MHz
# of DIMM's	24
Max Memory Size	3072 GB
Integrated GPU	Aspeed AST2500
# of 2.5 hot-swap bays	24
# of PCIe x16 3.0	1
# of PCIe x8 3.0	7
# of USB Ports	2 x USB 3.0 (rear) 1 x USB 3.0 Type A
# of SATA Ports	14
# of Super DOM	2
# of SAS Ports	24
Storage Controllers	8 x AHCI iSATA 6Gb/s 6 x sSATA 6Gb/s
# of Serial Ports	1 x Fast UART 16550 (header)
# of 10GbE Ports	2 x RJ45
Network Controllers	Intel x540 Dual Port 10 Gigabit Base-T (AOC-2UR68-i2XT)
Integrated BMC	IPMI Dedicated RJ45
BMC chip	Aspeed AST2500
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant
PSU Wattage	1000 W
PSU Certification	80+ Titanium
Chassis Dimensions	437 x 89 x 705mm

Product SKUs

SYS-2029U-E1CRT • SuperServer 2029U-E1CRT (Black)

Motherboard

Super X11DPU

Processor/Cache

CPU

- Dual Socket P (LGA 3647)
- Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
- Support CPU TDP 70-205W

Cores

- Up to 28 Cores with Intel® HT Technology

System Memory

Memory Capacity

- 24 DIMM slots
- Up to 3TB ECC 3DS LRDIMM, 3TB ECC RDIMM, DDR4 up to 2666MHz

Memory Type

- 2666/2400/2133MHz ECC DDR4 SDRAM
- 2666 ECC DDR4 NVDIMM

On-Board Devices

Chipset

- Intel® C621 chipset

SAS

- SAS3 (12Gbps) via expander + Broadcom 3108/3008 AOC

Network Connectivity

- 2x 10GBase-T ports via Intel® X540 (AOC-2UR68-i2XT)
- Support for Intelligent Platform Management Interface v.2.0

IPMI

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

Graphics

- ASPEED AST2500 BMC

Input / Output

SAS

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

LAN

- 2 RJ45 10GBase-T LAN ports
- 1 RJ45 Dedicated IPMI LAN port

USB

- 3 USB 3.0 ports (2 rear, 1 Type A)

Video

- 1 VGA Connector

Serial Header

- 1 Serial header

DOM

- 2 SuperDOM (Disk on Module) ports

System BIOS

BIOS Type

- AMI 32Mb SPI Flash ROM

Management

Software

- Intel® Node Manager
- [Redfish API](#)
- [IPMI 2.0](#)
- KVM with dedicated LAN
- NMI
- [SSM, SPM, SUM](#)
- [SuperDoctor® 5](#)

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

Chassis

Form Factor

- 2U Rackmount

Model

- **CSE-219U2E1C4-R1K02-T**

Dimensions and Weight

Width

- 17.2" (437mm)

Height

- 3.5" (89mm)

Depth

- 27.76" (705.3mm)

Weight

- Net Weight: 36 lbs (16.4 kg)
- Gross Weight: 72 lbs (32.7 kg)

Available Colors

- Black

Front Panel

Buttons

- Power On/Off button
- System Reset button
- Power status LED
- HDD activity LED

LEDs

- Network activity LEDs
- System information (overheat/UID) LED

Expansion Slots

PCI-Express

- 1 PCI-E 3.0 x16 (FH, 10.5" L)
- 5 PCI-E 3.0 x8 (FH, 10.5" L)
- 1 PCI-E 3.0 x8 (LP)
- 1 PCI-E 3.0 x8 (internal LP)

PCI-Express

(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 / Storage

Hot-swap

- 24 Hot-swap 2.5" drive bays: 24 SAS3 via opt. AOC (4 hybrid ports - opt. 4 NVMe)

Note: Storage Add-on card is required

- 1 M.2 NVMe and 1 M.2 SATA3 via optional riser card RSC-UMR-8 and cable CBL-SAST-0538 (2240/2260/2280/22110)
- 2 M.2 NVMe via optional add-on card AOC-SLG3-2M2 (2260/2280/22110)

M.2

System Cooling

Fans

- 4 Heavy duty 8cm PWM fans

Shroud

- 1 Air Shroud

Power Supply

1000W Redundant Power Supplies with PMBus

Total Output Power

- 800W/1000W

Dimension (W x H x L)

- 73.5 x 40 x 203 mm

Input

- 100-127Vac / 9.8 - 7A / 50-60Hz
- 200-240Vac / 7 - 5A / 50-60Hz
- 200-240Vdc / 7 - 5A (for CCC only)

+12V

- Max: 66.7A / Min: 0A (100-127Vac)
- Max: 83A / Min: 0A (200-240Vac)
- Max: 83A / Min: 0A (200-240Vdc)

12Vsb

- Max: 2.1A / Min: 0A

Output Type

- 25 Pairs Gold Finger Connector

Certification

- UL/cUL/CB/BSMI/CE/CCC
- **Titanium Level**
- [\[Test Report \]](#)

Operating Environment

RoHS

- RoHS Compliant

Environmental Spec.

- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
- Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

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<https://www.superstorage.pl/supermicro-superserver-sys-2029u-e1crt-2u-dp-24xsff-2x10gbe-red-psu-p-3264.html>