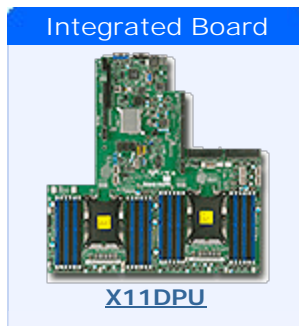


# SuperServer 1029U-E1CRTP2 (Complete System Only)



## Key Features

- Virtualization
- Cloud Computing
- High End Enterprise Server

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 3TB ECC 3DS LRDIMM or RDIMM, up to DDR4-2666MHz; 24 DIMM slots
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. 2 10G SFP+ and 2 1GbE ports
5. 10 Hot-swap 2.5" drive bays: 10 SAS3/SATA3 ports via Expander and AOC
6. 8 heavy duty fans w/ optimal fan speed control
7. 750W Redundant Power Supplies Platinum Level (94%+)

Due to the complexity of integration, this product is sold as completely assembled systems only (with minimum 2 CPU and 4 DIMM). Please contact your Supermicro sales rep for special requirements.

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

SYS-1029U-E1CRTP2 ■ SuperServer 1029U-E1CRTP2 (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

### On-Board Devices

### Chassis

Form Factor ■ 1U Rackmount

Model ■ CSE-119UE1C-R751-T

### Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 27.8" (707mm)

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

Chipset	Intel® C621 chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Connectivity	▪ 2 10G SFP+ ports and 2 1GbE ports via AOC-URN2-I4GXS-O (Intel X710-AM2 and Intel i350-AM2)
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
<b>Input / Output</b>	
SAS	▪ 10 SAS3 ports support via expander and storage Add-on Cards
LAN	▪ 2 10G SFP+ ports ▪ 2 RJ45 Gigabit Ethernet ports ▪ 1 RJ45 Dedicated IPMI LAN port
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
<b>System BIOS</b>	
BIOS Type	▪ AMI 32Mb SPI Flash ROM
<b>Management</b>	
Software	▪ Intel® Node Manager ▪ <a href="#">Redfish API</a> ▪ <a href="#">IPMI 2.0</a> ▪ KVM with dedicated LAN ▪ NMI ▪ <a href="#">SSM, SPM, SUM</a> ▪ <a href="#">SuperDoctor® 5</a>
Power Configurations	▪ ACPI Power Management
<b>PC Health Monitoring</b>	
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 8x fan connectors

- 2 PCI-E 3.0 x16 (Full-height, 10.5" L)
- 2 PCI-E 3.0 x8 (1 LP, 1 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

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

#### 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
- +12V
- Max: 62.5A & Min: 0A (100Vac-127Vac)
  - Max: 62.5A & Min: 0A (200Vac-240Vac)
- 12V SB
- Max: 2.1A
  - Min: 0A

Certification



Platinum 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)

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPU	1	Super X11DPU Motherboard
	CSE-119UE1C-R751-T	1	CSE-119UE1C-R751-T Chassis
Add-on Card / Module	AOC-URN2-I4GXS-P	1	1U Ultra Riser 2-port 10GbE SFP+ Intel X710-AM2, and 2-port GbE RJ45, Intel i350-AM2. 1 PCI-E 3.0 x8 (internal) 2 NVMe ports
Backplane	BPN-SAS3-116EL1	1	10-port 1U SAS3 12Gbps single-expander backplane, support up to 10x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-PWEX-0650	1	8 pin female to 2x RA(Right Angle) big 4 pin female power, 47/62CM, 18AWG,RoHS/REACH
Cable 2	CBL-SAST-0532	2	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF

FAN 1	FAN-0101L4	8	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Rear Window	MCP-240-81911-0N	1	Rear window for SC819U, 119U tool-less chassis (i4GXS)
Air Shroud	MCP-310-81910-0N	1	Plastic air shroud for SC819U, 119U (X11 24DIMM, left side)
Riser Card	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
Riser Card	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
Heatsink / Retention	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-751P-1R	2	1U 750W Redundant Platinum Single Output Power Supply w/Pmbus W73.5xH40xL203mm,RoHS/REACH
Rear Window	MCP-240-81912-0N	1	Rear window for SC819U, 119U tool-less chassis (i4XT)

### Optional Parts List

	Part Number	Qty	Description
2 Internal M.2 slots (1 SATA, 1 NVMe)	RSC-UMR-8 & CBL-SAST-0538	1	1U Ultra RHS Riser Card with 1 PCIE/SATA Hybrid M.2 & 1 PCIE X8
Storage Control Card and Cable(s)	AOC-S3008L-L8e	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122HDD, HBA
	AOC-S3008L-L8i		Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR		Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
Network Card(s)	AOC-S40G-i2Q	-	Standard LP 2-port 40GbE controller, based on Intel Fortville XL710
	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel 82599EN
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel 82598EB
CachVault(s)	BTR-CV3108-1U1	-	CacheVault for Broadcom 3108 with Supercap mounting in 1U 40x56 fan tray
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; Supercap mounting bracket for 2.5" HDD location
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)