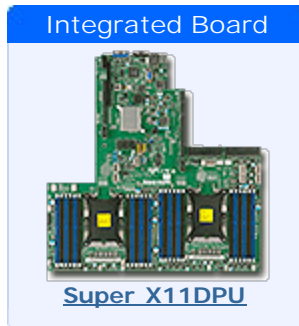


SuperServer 2029U-E1CR25M (Complete System Only)



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](#) | [NVMe Options](#) | [OS Certification Matrix](#) | [Drive Options](#)

Key Features

- Flexible Networking Options

- Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
- Up to 3TB ECC 3DS LRDIMM or RDIMM, up to DDR4-2666MHz; 24 DIMM slots
- 1 PCI-E 3.0 x16 slot (FH, 10.5" L), 5 PCI-E 3.0 x8 slots (FH, 10.5" L), 1 PCI-E 3.0 x8 slot (LP), 1 PCI-E 3.0 x8 slot (internal LP)
- 2 25GbE SFP28 Ethernet ports
- 24 Hot-swap 2.5" drive bays: 24 SAS3 via opt. AOC (4 hybrid ports - opt. 4 NVMe)
- 4 Heavy duty 8cm PWM fans
- 1000W Redundant Power Supplies Titanium Level (96%)

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

Specifications

Product SKUs

SYS-2029U-E1CR25M ■ SuperServer 2029U-E1CR25M (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 3DS ECC LRDIMM, 3TB ECC RDIMM, DDR4 up to 2666MHz

Memory Type ■ 2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM

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

LEDs ■ Power status LED
 ■ HDD activity LED
 ■ Network activity LEDs
 ■ System information (overheat/UID) LED

On-Board Devices

Chipset	<ul style="list-style-type: none">Intel® C621 chipset
SAS	<ul style="list-style-type: none">SAS3 (12Gbps) via expander + Broadcom 3108/3008 AOC
Network Connectivity	<ul style="list-style-type: none">2 25GbE SFP28 ports via AOC-2UR68-m2TS (Mellanox ConnectX-4 Lx EN)
IPMI	<ul style="list-style-type: none">Support for Intelligent Platform Management Interface v.2.0IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none">ASPEED AST2500 BMC

Input / Output

SAS	<ul style="list-style-type: none">24 SAS3 ports support via expander and storage Add-on Cards
LAN	<ul style="list-style-type: none">2 25GbE SFP28 ports1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">3 USB 3.0 ports (2 rear, 1 Type A)
Video	<ul style="list-style-type: none">1 VGA Connector
Serial Header	<ul style="list-style-type: none">1 Serial header
DOM	<ul style="list-style-type: none">2 SuperDOM (Disk on Module) ports

System BIOS

BIOS Type	<ul style="list-style-type: none">AMI 32Mb SPI Flash ROM
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Management

Software	<ul style="list-style-type: none">Intel® Node ManagerRedfish APIIPMI 2.0KVM with dedicated LANNMISSM, SPM, SUMSuperDoctor@ 5
Power Configurations	<ul style="list-style-type: none">ACPI Power Management

PC Health Monitoring

CPU	<ul style="list-style-type: none">Monitors for CPU Cores, Chipset Voltages, Memory.4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none">Fans with tachometer monitoringStatus monitor for speed controlPulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none">Monitoring for CPU and chassis environmentThermal Control for fan connectors

Expansion Slots

Expansion Slots	<ul style="list-style-type: none">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	<p>(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.)</p>

Drive Bays

Drive Bays	<ul style="list-style-type: none">24 Hot-swap 2.5" drive bays: 24 SAS3 via opt. AOC (4 hybrid ports - opt. 4 NVMe)
Hot-swap	<p>Note: Storage Add-on card is required</p>

System Cooling

Fans	<ul style="list-style-type: none">4 Heavy duty 8cm PWM fans
Shroud	<ul style="list-style-type: none">1 Air Shroud

Power Supply

1000W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none">800W/1000W
Dimension (W x H x L)	<ul style="list-style-type: none">73.5 x 40 x 203 mm
Input	<ul style="list-style-type: none">100-127Vac / 9.8 - 7A / 50-60Hz200-240Vac / 7 - 5A / 50-60Hz
+12V	<ul style="list-style-type: none">Max: 66.7A / Min: 0A (100-127Vac)Max: 83A / Min: 0A (200-240Vac)
12Vsb	<ul style="list-style-type: none">Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none">25 Pairs Gold Finger Connector

Certification	  UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]
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Operating Environment

RoHS	<ul style="list-style-type: none">RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none">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-219U2E1C4-R1K02-T	1	2U Chassis
Add-on Card / Module	AOC-2UR68-M2TS-O	1	[NR]AOC-2UR68-M2TS-P
Backplane	BPN-SAS3-216EL1-N4	1	24-port 2U SAS3 12Gbps single-expander backplane, support up to 20x 2.5-inch SAS3/SATA3 HDD/SSD and 4x NVMe/SAS3/SATA3 storage devices
Cable 1	CBL-PWEX-0673	3	8 pin female to 2x big 4 pin female power, 65/70CM, 18AWG,RoHS/REACH
Cable 2	CBL-SAST-0593	2	Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
Parts	MCP-240-82914-0N	1	Ultra I/O bracket for SC829U, 219U (B2TS)
Riser Card	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
Riser Card	RSC-R2UW-4E8	1	RSC-R2UW-4E8-O-P
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K02A-1R	2	1U 1000W Redundant Power Supply 73.5mm width Titanium Level,RoHS/REACH
FAN 1	FAN-0118L4	4	80 x 80 x 38 mm, 9.5K RPM, 4-pin PWM Fan, Hot

Optional Parts List

	Part Number	Qty	Description
Cable for 4 NVMe Hybrid Drive Bays	2 CBL-SAST-0929 & 2 CBL-SAST-0972	1	OCuLink source to MiniSAS HD target V.91,INT,PCIe NVMe SSD, 57CM,34AWG
2.5" NVMe Drive Tray	MCP-220-00120-0B	4	Tool-less Black gen-3 2.5-inch NVMe drive tray (Orange tab. PUSH button with key lock)
2 Internal M.2 slots (1 SATA, 1 NVMe)	RSC-UMR-8 & CBL-SAST-0538 & MCP-120-82924-0N	1	1U Ultra RHS Riser Card with 1 PCIE/SATA Hybrid M.2 & 1 PCIE X8
2 Rear 2.5" Hot-swap SATA Drive Bays	MCP-240-82922-0N-OEM	1	Rear 2x 2.5" HDDs riser bracket kit for SC829U/219U, tool-less
Storage Control Card for SAS3 Drive Bays	AOC-S3008L-L8e	1	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
CacheVault(s)	BTR-CV3108-U1	-	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)