

Supermicro SuperServer SYS-2028U-E1CNRT+ 2U DP 24xSFF 4xNVMe 2x10GbE RED PSU

Kod producenta: SYS-2028U-E1CNRT+

Chassis Form Factor	Rack 2U
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3
Max CPU TDP	160 W
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	24
Max Memory Size	3072 GB
Integrated GPU	Aspeed AST2400
# of 2.5 hot-swap bays	24
# of 2.5 Hybrid NVMe bays	4
# of PCIe x8 3.0	7
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 3.0 (header) 1 x USB 3.0 Type A
# of SATA Ports	10
# of Super DOM	2
Storage Controllers	6 x AHCI iSATA 6Gb/s 4 x sSATA 6Gb/s
Integrated RAID	0,1,5,10
# of Serial Ports	1 x Fast UART 16550 (header)
# of 10GbE Ports	2 x Base-T
Network Controllers	Intel x540 Quad Port 10 Gigabit Base-T
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2400
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant
PSU Wattage	1000W
PSU Certification	80+ Titanium
Chassis Dimensions	437 x 89 x 705.3mm
Uwagi	HDD bays configuration: 24x 2.5" Hot-swap drive bays: 4x NVMe ports 24 x SAS3 ports via Expander and AOC: AOC-S3108L-H8iR AOC-S3008L-L8e AOC-S3008L-L8i

Poniżej prezentujemy szczegółowy opis techniczny oferowanego produktu:

Product SKUs

 **SYS-2028U-E1CNRT+** • SuperServer 2028U-E1CNRT+ (Black)

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, 768GB ECC RDIMM
Memory Type • **2400**/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes • 64GB, 32GB, 16GB, 8GB, 4GB
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
• Support for Intelligent Platform Management Interface v.2.0
IPMI • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
• ASPEED AST2400 BMC
• 2x 10GBase-T ports via [AOC-2UR8N4-i2XT](#)
Network Connectivity • Intel® X540 10GBase-T
• 1x Realtek RTL8211E PHY (dedicated IPMI)
Graphics • ASPEED AST2400 BMC

Input / Output

 • 24x SAS3 ports support via expander and storage Add-on Cards
• One of the following storage Add-on cards required:
SAS 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)
NVMe • 4x NVMe ports
LAN • 2x RJ45 10GBase-T LAN ports
• 1x RJ45 Dedicated IPMI LAN port
USB • 5x USB 3.0 ports
(2 rear, 2 onboard header, 1 Type A)
Video • 1x VGA Connector
Serial Port / Header • 1x Serial header
DOM • 2x SuperDOM (Disk on Module) ports

System BIOS

 **BIOS Type** • 128Mb SPI Flash EEPROM with AMI BIOS
• Plug and Play (PnP)
• APM 1.2
• PCI 2.3
BIOS Features • ACPI 1.0 / 2.0 / 3.0 / 4.0
• USB Keyboard support
• SMBIOS 2.7.1
• UEFI 2.3.1

Management

 **Software** • [SuperDoctor® 5](#)
• Intel® Node Manager 3.0
• Watch Dog
• NMI
• [SLM](#) and [SSM](#)
• Optional IPMI 1.5 / 2.0
Power Configurations • ACPI Power Management
• Power-on mode for AC power recovery



Chassis

 **Form Factor** • 2U Rackmount
Model • **CSE-219UE1C4-R1K02**

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
• 2x Network activity LEDs
• System information (overheat/UID) LED

Expansion Slots

 • Up to 7x PCI-E 3.0 x8 slots
(up to 5x FH, 10.5" L, 1x LP, 1x 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

 • 24x 2.5" Hot-swap drive bays
• Default 4x NVMe ports
• 24x SAS3 ports support via Expander and AOC
Hot-swap

Note: Storage Add-on card is required

System Cooling

 **Fans** • 4x 8cm heavy duty PWM fans
Shroud • 1x 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
+12V • Max: 66.7A / Min: 0A (100-127Vac)
• Max: 83A / Min: 0A (200-240Vac)
12Vsb • Max: 2.1A / Min: 0A
Output Type • 25 Pairs Gold Finger Connector

Certification

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

PC Health Monitoring

 **Voltage** • 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 • 8x 4-pin fan headers
• Status monitor for speed control
• Pulse Width Modulated (PWM) fan connectors
• Support to monitor Supermicro AOC temperatures from IPMI or SD 5
• Monitoring for CPU and chassis environment
Temperature • CPU thermal trip support
• Thermal Control for 8x Fan Connectors
• Thermal Monitor 2 (TM2) support
• PECI
LED • Memory DIMM ECC error LEDs
• CPU / System Overheat LED
• Suspend static indicator LED
• UID/Remote UID
Other Features • 4x 8-pin GPU power connectors
• Chassis intrusion detection
• Chassis intrusion header
• SDDC Support
• RoHS

Operating Environment / Compliance

 **RoHS** • RoHS Compliant
• Operating Temperature: 10°C to 35°C (50°F to 95°F)
Environmental Spec. • 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)

UWAGA !!!

Ze względu na wysoki stopień integracji platforma dostępna jest tylko i wyłącznie jako gotowy system wraz z CPU, RAM i HDD oraz dodatkowymi kartami rozszerzeń. Prosimy o kontakt z nami w celu przedstawienia oferty na interesującą Państwa konfigurację.

Strona firmowa produktu:

<https://www.superstorage.pl/supermicro-superserver-sys-2028u-e1cnrt-2u-dp-24xsff-4xnvme-2x10gbe-re-d-psu-p-1923.html>