# Supermicro SuperServer SYS-1028R-MCTR 1U DP 8xSFF LSI3108 2x10GbE 2xGbE RED PSU

## Part number: SYS-1028R-MCTR

| | |
|---|---|
| Chassis Form Factor | Rack 1U |
| CPU Socket | LGA 2011 (Socket R3) |
| # of CPU sockets | 2 |
| Supported CPU's | Intel Xeon E5-2600v4<br>Intel Xeon E5-2600v3 |
| Max CPU TDP | 145 W |
| Chipset | Intel C612 Wellsburg |
| Memory Type | DDR4 ECC 3DS LRDIMM<br>DDR4 ECC LRDIMM<br>DDR4 ECC RDIMM |
| Memory Speed | 2400 MHz<br>2133 MHz<br>1866 MHz<br>1600 MHz |
| # of DIMM's | 8 |
| Max Memory Size | 1024 GB |
| Integrated GPU | Aspeed AST2400 |
| # of 2.5 hot-swap bays | 8 |
| Backplanes | SAS/SATA |
| Optical drives | 1x Slim DVD-ROM / DVD-RW (optional) |
| # of PCIe x8 3.0 | 1 |
| # of USB Ports | 2 x USB 3.0 (rear)<br>2 x USB 3.0 (header)<br>2 x USB 2.0 (header)<br>1 x USB 2.0 Type A |
| # of SATA Ports | 6 |
| # of Super DOM | 2 |
| # of SAS Ports | 8 |
| Storage Controllers | 6 x AHCI iSATA 6Gb/s<br>LSI 3108 12Gb/s |
| Integrated RAID | 0,1,5,10 |
| Hardware RAID | 0,1,5,6,10,50,60 |
| # of Serial Ports | 1 x Fast UART 16550 (header) |
| # of 10GbE Ports | 2 x Base-T |
| # of 1GbE Ports | 2 x RJ45 |
| Network Controllers | Intel i210 Dual Port Gigabit Ethernet<br>Intel x540 Dual Port 10 Gigabit Base-T |
| Integrated BMC | IPMI 2.0<br>KVM-over-LAN<br>Virtual Media over LAN<br>IPMI Dedicated RJ45 PHY |
| BMC chip | Aspeed AST2400 |
| TPM | 1 x TPM 1.2 20-pin Header |
| Power Supply | Redundant |
| PSU Wattage | 600W |
| PSU Certification | 80+ Platinum |
| Chassis Dimensions | 437 x 43 x 708mm |

*Poniżej prezentujemy szczegółowy opis techniczny oferowanego produktu:*

## Product SKUs

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|---|---|
| **SYS-1028R-MCTR** | • SuperServer 1028R-MCTR (**Black**) |

## Motherboard

Super X10DRL-CT

## Processor/Cache

| | |
|---|---|
| **CPU** | • Intel® Xeon® processor E5-2600 **v4**†/ v3 family (up to 145W TDP) *<br>• 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

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|---|---|
| **Memory Capacity** | • 8x 288-pin DDR4 DIMM slots<br>• Up to 1TB† ECC 3DS LRDIMM, 512GB ECC RDIMM |
| **Memory Type** | • **2400**†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit |
| **DIMM Sizes** | • RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB<br>• LRDIMM: 64GB, 32GB<br>• 3DS LRDIMM: 128GB |
| **Memory Voltage** | • 1.2 V |
| **Error Detection** | • Corrects single-bit errors |

## On-Board Devices

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|---|---|
| **Chipset** | • Intel® C612 chipset |
| **SAS** | • SAS3 (12Gbps) via LSI 3108<br>• RAID 0, 1, 5, 6, 10, 50, 60 support<br>• 2GB DDR3 Cache |
| **SATA** | • SATA3 (6Gbps); RAID 0, 1, 5, 10 |
| **IPMI** | • Support for Intelligent Platform Management Interface v.2.0<br>• IPMI 2.0 with virtual media over LAN and KVM-over-LAN support<br>• ASPEED AST2400 BMC |
| **Network Controllers** | • Intel® X540 10GBase-T controller<br>• Intel® i210 Gigabit Ethernet controller<br>• Supports 10GBASE-T, 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output<br>• 1x Realtek RTL8211E PHY (dedicated IPMI) |
| **Video** | • ASPEED AST2400 BMC |

## Input / Output

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|---|---|
| **SAS** | • 8x SAS3 (12Gbps) ports |
| **SATA** | • 6x SATA3 (6Gbps) ports<br>• I-SATA 4 & I-SATA 5 support SATA DOM |
| **LAN** | • 2x RJ45 10GBase-T LAN ports<br>• 2x RJ45 Gigabit Ethernet LAN ports<br>• 1x RJ45 Dedicated IPMI LAN port |
| **USB** | • 4x USB 3.0 ports (2 rear, 2 headers)<br>• 3x USB 2.0 ports (2 headers, 1 Type A) |
| **Video** | • 1x VGA port |
| **Serial Port / Header** | • 1x COM port (header) |
| **DOM** | • 2x SuperDOM (Disk on Module) ports |

## Management

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|---|---|
| **Software** | • IPMI 2.0<br>• Intel® Node Manager 3.0<br>• SuperDoctor® 5<br>• SSM<br>• SPM<br>• SUM<br>• Watch Dog |
| **Power Configurations** | • ACPI Power Management<br>• Power-on mode for AC power recovery |

## Chassis

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|---|---|
| **Form Factor** | • 1U Rackmount |
| **Model** | • CSE-113MFAC2-R606CB |

## Dimensions and Weight

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|---|---|
| **Width** | • 17.2" (437mm) |
| **Height** | • 1.7" (43mm) |
| **Depth** | • 19.98" (508mm) |
| **Package** | • 24" (W) x 8.3" (H) x 30" (L) |
| **Gross Weight** | • 40 lbs (18.15 kg) |
| **Available Colors** | • Black |

## Front Panel

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|---|---|
| **Buttons** | • Power On/Off button<br>• System Reset button<br>• UID button |
| **LEDs** | • Power status LED<br>• HDD activity LED<br>• 2x Network activity LEDs<br>• Universal Information (UID) LED |

## Expansion Slots

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| **PCI-Express** | • 1x PCI-E 3.0 x8 (FHHL) slot |

## Drive Bays

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|---|---|
| **Hot-swap** | • 8x 2.5" Hot-swap SAS3/SATA3 Drive Bays |

## Peripheral Drives

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|---|---|
| **DVD-ROM** | • 1x Slim DVD-ROM drive (optional) |

## Backplane

- SAS3/SATA3 Backplane
- Optional 2x 2.5" NVMe drives

## System Cooling

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|---|---|
| **Fans** | • 4x 4cm fans with optimal fan speed control |

## Power Supply with Power Distributor

600W Redundant High-Efficiency Power Supplies w/Power Distributor, PMBus 1.2, I²C, and PFC

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|---|---|
| **AC Input** | • 100-240V, 50-60Hz, 7.5-3.0A |
| **DC Output** | • +5V standby: 3A<br>• +12V: 50A |
| **Certification** | **Platinum Certified**<br>[ Test Report ] |

## System BIOS

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|---|---|
| **BIOS Type** | • 128Mb SPI Flash EEPROM with AMI BIOS |
| **BIOS Features** | • Plug and Play (PnP)<br>• PCI 2.3<br>• ACPI 3.0 / 4.0<br>• USB Keyboard support<br>• SMBIOS 2.7.1<br>• UEFI 2.3.1 |

## Operating Environment / Compliance

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|---|---|
| **RoHS** | • RoHS Compliant |
| **Environmental Spec.** | • Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>• Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>• Operating Relative Humidity: 8% to 90% (non-condensing)<br>• Non-operating Relative Humidity: 5% to 95% (non-condensing) |

*Visit us for more info:*
*https://www.superstorage.pl/supermicro-superserver-sys-1028r-mctr-1u-dp-8xsff-lsi3108-2x10gbe-2xgbe-red-psu-p-978.html*