

# Supermicro SuperServer SYS-2048U-RTR4 2U QP 24xSFF 4xGbE RED PSU

Kod producenta: SYS-2048U-RTR4



Chassis Form Factor	Rack 2U
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-4600v4 Intel Xeon E5-4600v3
Max CPU TDP	135 W
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	48
Max Memory Size	6144 GB
Integrated GPU	Aspeed AST2400
# of 2.5 hot-swap bays	24
# of 2.5 Hybrid NVMe bays	4
# of PCIe x16 3.0	2
# of PCIe x8 3.0	9
# of USB Ports	2 x USB 3.0 (rear) 2 x USB 3.0 (header) 1 x USB 3.0 Type A 2 x USB 2.0 (header)
# 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 1GbE Ports	4 x RJ45
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 780mm
Uwagi	Network Controllers: 4x Gigabit Ethernet ports via 40G-2U-RTR4G

*Poniżej prezentujemy szczegółowy opis techniczny oferowanego produktu:*

Product SKUs

☒  
SYS-2048U-RTR4 • SuperServer 2048U-RTR4 (Black)

Motherboard

☒  
[Super X10QRH+](#)

Processor/Cache

☒  
CPU • Intel® Xeon® processor E5-4600 v3 family (up to 135W TDP) \*  
• Quad Socket R3 (LGA 2011)  
Cores / Cache • Up to 18 Cores / Up to 45MB Cache  
System Bus • QPI up to 9.6 GT/s

System Memory

☒  
Memory Capacity • 48x 288-pin DDR4 DIMM slots  
• Up to 3TB ECC LRDIMM  
• Up to 1.5TB ECC RDIMM  
Memory Type • 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit  
DIMM Sizes • RDIMM: 32GB, 16GB, 8GB, 4GB  
• LRDIMM: 64GB, 32GB  
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  
Network Connectivity • 4x Gigabit Ethernet ports via AOC-2UR66-14G; [Other options](#)  
• 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  
Graphics • ASPEED AST2400 BMC

Input / Output

☒  
SATA • 10x SATA3 (6Gbps) ports  
SAS • 24x SAS3 ports support via optional Add-on Cards  
NVMe • 4x Hybrid ports with NVMe support via AOC  
LAN • 4x RJ45 GbE LAN ports  
• 1x RJ45 Dedicated IPMI LAN port  
USB • 5x USB 3.0 ports (2 rear, 2 via header, 1 Type A)  
• 2x USB 2.0 ports (2 via header)  
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  
• SUM 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-218U-R1K02P

Dimensions and Weight

☒  
Width • 17.2" (437mm)  
Height • 3.5" (89mm)  
Depth • 30.7" (780mm)  
Weight • Net Weight: 43 lbs (19.4 kg)  
• Gross Weight: 69 lbs (31.2 kg)  
Gross Weight • 36 lbs (16.4kg)  
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

☒  
• 9x PCI-E 3.0 x8 slots (include 4x PCI-E 3.0 x8 internal slots)  
• 2x PCI-E 3.0 x16 slots  
PCI-Express (4 CPUs need to be installed for full access to PCI-E slots and onboard controllers. See [AOC Support for details.](#))

Drive Bays

☒  
• 24x 2.5" Hot-swap drive bays  
• Default 10x SATA3 ports (2x SATA3 ports for SATA DOM or internal HDD)  
• Optional 24x SAS3 ports via AOC  
• Optional 20x SAS3 ports via AOC + 4x NVMe ports via AOC  
Note: optional storage card is required to support more than 8 drives through backplane.

System Cooling

☒  
Fans • 4x 8cm heavy duty PWM fans

Power Supply with Digital Switching Control

1000W Redundant Titanium Level (96%) Single Output Power Supplies  
AC Input • 100-127 V, 50-60 Hz  
• 200-240 V, 50-60 Hz  
• Max: 62.5A & Min: 0A (100Vac-127Vac)  
+12V • Max: 83A (200Vac-240Vac) & Min: 0A  
12V SB • Max: 2.1A  
• Min: 0A

Certification ☒☒ 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)  
• Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)  
Environmental Spec. • 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-2048u-rtr4-2u-qp-24xsff-4xgbe-red-psu-p-1990.html>