Supermicro SuperServer SYS-1028R-WTNR 1U DP 8xSFF 2xNVMe 2xGbE RED PSU

Part number: SYS-1028R-WTNR

Chassis Form Factor	Rack 1U
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3
Max CPU TDP	145 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	16
Max Memory Size	2048 GB
Integrated GPU	Aspeed AST2400
# of 2.5 hot-swap bays	8
# of 2.5 Hybrid NVMe bays	2
Backplanes	SAS3/SATA3
# of PCIe x16 3.0	2
# of USB Ports	2 x USB 3.0 (header) 4 x USB 2.0 (rear)
# 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	2 x RJ45
Network Controllers	Intel i350 Dual Port Gigabit Ethernet
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	700W
PSU Certification	80+ Platinum
Rack Rails	included
Chassis Dimensions	437 x 43 x 597mm

Poniżej prezentujemy szczegółowy opis techniczny oferowanego produktu:

Product SKUs

SYS-1028R-WTNR	• SuperServer 1028R-WTNR (**Black**)

Motherboard

Super X10DRW-N

Processor/Cache

CPU	• Intel® Xeon® processor E5-2600 **v4**†/ v3 family (up to 145W 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	• 16x 288-pin DDR4 DIMM slots • Up to 2TB† 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 • LRDIMM: 64GB, 32GB • 3DS LRDIMM: 128GB
Memory Voltage	• 1.2 V
Error Detection	• Corrects single-bit errors

On-Board Devices

Chipset	• Intel® C612 chipset
SATA	• SATA3 (6Gbps); RAID 0, 1, 5, 10
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support • ASPEED AST2400 BMC
Network Controllers	• Intel® i350 Dual Port Gigabit Ethernet Controller • Virtual Machine Device Queues reduce I/O overhead • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output • 1x Realtek RTL8211E PHY (dedicated IPMI)
Video	• ASPEED AST2400 BMC

Input / Output

Serial ATA	• 8 SATA3 (6 Gbps) ports and 2 NVMe/SATA3 hybrid ports
LAN	• 2x RJ45 Gigabit Ethernet LAN ports • 1x RJ45 Dedicated IPMI LAN port
USB	• 2x USB 3.0 ports (front via header) • 4x USB 2.0 ports (rear)
Video	• 1x VGA port
Serial Port / Header	• 1x Fast UART 16550 header
DOM	• 2x SuperDOM (Disk on Module) ports

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	• 6x 4-pin fan headers (up to 6 fans) • 6x fans with tachometer monitoring • Status monitor for speed control • Pulse Width Modulated (PWM) fan connectors
Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Control for 8x Fan Connectors • Thermal Monitor 2 (TM2) support • PECI
LED	• CPU / System Overheat LED • Suspend static indicator LED • UID/Remote UID
Other Features	• Chassis intrusion detection • Chassis intrusion header • SDDC Support • RoHS

Chassis

Form Factor	• 1U Rackmount
Model	• **CSE-116AC2-R706WB**

Dimensions and Weight

Width	• 17.2" (437mm)
Height	• 1.7" (43mm)
Depth	• 23.5" (597mm)
Gross Weight	• 46 lbs (20.9kg)
Available Colors	• Black

Front Panel

Buttons	• Power On/Off button • UID button
LEDs	• Power status LED • HDD activity LED • 2x Network activity LEDs • Universal Information (UID) LED

Expansion Slots

PCI-Express	• 2x PCI-E 3.0 x16 full-height, half-length slots

Drive Bays

Hot-swap	• 8x SATA3 (6Gbps) ports and 2x NVMe/STAT3 hybrid ports (connected to onboard storage controller)

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans	• 5x 4cm heavy-duty counter-rotating fans w/ air shroud and optimal fan speed control

AC/DC240V Input Redundant Power Supply

700W/750W Redundant Power Supplies with PMBus

Total Output Power	• 700W/750W
Dimension (W x H x L)	• 54.5 x 40 x 320 mm
Input	• 100 - 140Vac / 8 - 6A / 50-60Hz • 200 - 240Vac / 4.5 - 3.8A / 50-60Hz • 200 - 240Vdc / 4.5 - 3.8A (CCC Only)
+12V	• Max: 58A / Min: 0.5A (100 - 140Vac) • Max: 62A / Min: 0.5A (200 - 240Vac) • Max: 62A / Min: 0.5A (200 - 240Vdc) (CB/CCC Only)
+5V sb	• Max: 3A / Min: 0A
Output Type	• Gold Finger Connector Mating with Molex 45984-4343
Certification	**Platinum Certified** [Test Report]

System BIOS

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

Management

Software	• SuperDoctor® 5 • Watch Dog • NMI • IPMI 2.0 • Intel Node Manager
Power Configurations	• ACPI / APM Power Management • Power-on mode for AC power recovery

Operating Environment / Compliance

RoHS	• RoHS Compliant
Environmental Spec.	• 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) • Operating Relative Humidity: 8% to 90% (non-condensing) • Non-operating Relative Humidity: 5% to 95% (non-condensing)

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