

SuperServer 1027R-WC1NR



Available Colors: Black

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
3. 1x PCI-E 3.0 x16 (Full-height, Half-length)
4. 10x Hot-swap 2.5" drive bays (8x SAS3 and 2x NVMe PCIe SSD/SATA3)
5. Intel® i350 Dual port GbE LAN
6. 700W Redundant Power Supplies Gold Level Certified

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

Specifications

Product SKUs

SYS-1027R-WC1NR	▪ SuperServer 1027R-WC1NR (Black)
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Motherboard

Super X9DRW-CF31

Processor/Cache

CPU	<ul style="list-style-type: none"> ▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 130W TDP)
Note	† BIOS version 3.0 or above is required
Cache	▪ Up to 30MB

System Bus	▪ QPI up to 8 GT/s
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System Memory

Memory Capacity	<ul style="list-style-type: none"> ▪ 16x 240-pin DDR3 DIMM slots ▪ Up to 1TB DDR3 ECC LRDIMM ▪ Up to 512GB DDR3 ECC Registered memory (RDIMM) ▪ Up to 128GB DDR3 ECC and non-ECC UDIMM
Memory Type	▪ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

Chassis

Form Factor	▪ 1U Rackmount
Model	▪ CSE-116AC2-R700WB

Dimensions

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

Front Panel

Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ UID button
LEDs	<ul style="list-style-type: none"> ▪ Power status LED ▪ HDD activity LED ▪ 2x Network activity LEDs ▪ Universal Information (UID) LED

Expansion Slots

PCI-Express	▪ 1 PCI-E 3.0 x16 Full-height, Half-length slot (CPU2 Required)
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DIMM Sizes	<ul style="list-style-type: none"> 64GB (LRDIMM), 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602J Chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via LSI 3108 RAID 0, 1, 5, 6, 10, 50, 60 support 2GB DDR3 Cache
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> 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)
Graphics	<ul style="list-style-type: none"> G200 (Nuvoton WPCM450 BMC)

Input / Output

Serial ATA / NVMe PCIe SSD	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) / NVMe PCIe SSD ports
SAS	<ul style="list-style-type: none"> 8x SAS3 (12Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 6x USB 2.0 ports total (4 rear, 2 front)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 header

Management

Software	<ul style="list-style-type: none"> SuperDoctor® III Watch Dog NMI SUM and SSM IPMI 2.0 Intel Node Manager
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management Power-on mode for AC power recovery

Drive Bays

Hot-swap	<ul style="list-style-type: none"> 10 Hot-swap 2.5" drive bays (8 SAS3 and 2 NVMe PCIe SSD/SATA3)
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Backplane

SAS/SATA/NVMe PCIe SSD

System Cooling

Fans	<ul style="list-style-type: none"> 5x 40x56mm Counter-rotating PWM Fans
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Power Supply

700W/750W Redundant AC-DC high-efficiency power supply with PMBus and I2C

AC Voltage	<ul style="list-style-type: none"> 700W: 100 - 140 V, 50-60 Hz, 8.5-6 Amp 750W: 180 - 240V, 60-50 Hz, 5-3.8 Amp
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DC Output +5V standby	<ul style="list-style-type: none"> 3 Amp
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DC Output +12V	<ul style="list-style-type: none"> 700W: 58 Amp @ 100-140V 750W: 62 Amp @ 180-240V
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With Power Distributor	<ul style="list-style-type: none"> +5V: 25 Amp +3.3V: 12 Amp -12V: 0.6 Amp
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Certification



[Gold Certified](#)

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
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BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 BIOS resume hot keys USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 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-X9DRW-CF31	1	Super X9DRW-CF31 Motherboard
	CSE-116AC2-R700WB	1	1U Chassis
Backplane	BPN-SAS3-116A-N2	1	10-Port 1U Backplane for 8x2.5" SAS3/SATA3 HDD/SSD and 2xSAS2/SATA3 HDD/SSD or NVMe SSD
Cable 1	CBL-SAST-0568	1	Internal Mini-SAS HD to Mini-SAS HD 35cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
Cable 2	CBL-0484L	2	55cm 30AWG SATA S-S cable
Cable 3	CBL-SAST-0590	2	Internal Mini-SAS HD to Mini-SAS HD for PCIe SSD, Internal Mini-SAS HD cable for PCIe SSD NVMe, 12Gb/s, 70cm,30AWG
Cable 4	CBL-SAST-0550	1	Internal Mini-SAS HD to Mini-SAS HD 25cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
Cable 5	CBL-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Riser Card	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
Heatsink / Retention	SNK-P0047PSC	1	1U Passive Front CPU Heat Sink w/ a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Rail Set	MCP-290-00043-0V	1 set	Rail set for SC113

Optional Parts List			
	Part Number	Qty	Description
Cable for Storage Controller Card Connection	CBL-0343L-01	1	IPASS to 4 SATA Cable, 30AWG 76/66/54/45CM, W/ 66CM
Rail Set	MCP-290-00063-0N	1 set	Rail set, quick/quick, for 1U 17.2"W SC113
Network Card(s)	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-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x8, Intel® 82576EB
	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-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
Storage Controller Card(s)	AOC-S3008L-L8e	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD, HBA
	AOC-S3008L-L8i	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S2308L-L8e	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 122HDD, HBA
	AOC-S2308L-L8i	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S2208L-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-SAS2LP-MV8	-	Standard LP, 8 internal ports (6Gb/s) Gen-2, HBA
	AOC-SAS2LP-H4iR	-	Standard LP, 4 internal & 4 external ports (6Gb/s) Gen-2, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-SAS2LP-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-2, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60