SuperServer 2028R-C1R4+





Available Colors:

Black



Key Features

- Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
- 2. Up to 1.5TB ECC, up to DDR4 2133MHz; 24x DIMM sockets
- 3. 2x PCI-E 3.0 x16, 3x PCI-E 3.0 x8, and 1x PCI-E 2.0 x4 (in x8) slot
- 4. 8x 2.5" SAS3 and 8x 2.5" SATA3 Hot-swap Drive Bays
- 5. Quad GbE ports w/ Intel i350
- 6. I/O ports: 2x SuperDOM, 1x VGA, 2x COM, 2x USB 3.0 (rear), 4x USB 2.0 (2 rear, 2 front), 1x Type A
- 7. 3x 8cm high-performance PWM fans
- 8. 920W Redundant Power Supplies **Platinum Level** (94%)

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

Specifications

Product SKUs

SYS-2028R-C1R4+

■ SuperServer 2028R-C1R4+ (Black)

Motherboard

Super X10DRC-LN4+

Processor/Cac	he
CPU	 Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP **) Dual Socket R3 (LGA 2011)
Cores / Cache	■ Up to 18 Cores / Up to 45MB Cache
System Bus	■ QPI up to 9.6 GT/s
Note	** Please contact your Supermicro sales representative for additional details.

System Memor	· v	
Memory Capacity	 24x 288-pin DDR4 DIMM sockets Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM 	
Memory Type	 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit 	
DIMM Sizes	 RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 	

Chassis			
Form Factor	■ 2U Rackmount		
Model	■ CSE-213AC-R920LPB		
Dimensions an	d Weight		
Height	■ 3.5" (89mm)		
Width	■ 17.2" (437mm)		
Depth	■ 24.8" (630mm)		
Package	■ 10.5" (H) x 26.5" (W) x 38" (D)		
Weight	■ Net Weight: 38.5 lbs (17.5 kg)		
	Gross Weight: 63.5 lbs (28.8 kg)		
Available Color	■ Black		
Front Panel			
Buttons	■ Power On/Off button		
Buttons	 System Reset button 		
	■ Power LED		
	 Hard drive activity LED 		
LEDs	 2x Network activity LEDs 		

System Overheat LED / Fan fail LED /

UID LED

2x PCI-E 3.0 x16

3x PCI-E 3.0 x81x PCI-E 2.0 x4 (in x8)

Expansion Slots

PCI-Express

Error Detection	■ Corrects single-bit errors			
On-Board Devi	ices			
Chipset				
SATA	■ SATA3 (6Gbps); RAID 0, 1, 5, 10			
SAS	LSI 3108 SAS3 (12Gbps) controller; HW RAID 0, 1, 5, 6, 10, 50, 60			
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 Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 			
Graphics	■ ASPEED AST2400 BMC			
Input / Output				
SATA	■ 10x SATA3 (6Gbps) ports			
SAS	8x SAS3 (12Gbps) portsSuperCap option support			
LAN	4x RJ45 Gigabit Ethernet LAN ports1x RJ45 Dedicated IPMI LAN port			
USB	2x USB 3.0 ports (rear)4x USB 2.0 ports (2 rear, 2 front)1x Type A			
Video	■ 1x VGA Connector			
Serial Port / Header	2x Fast UART 16550 serial2x COM Ports (1 rear, 1 front)			
System BIOS				
BIOS Type	 128Mb SPI Flash EEPROM with UEFI BIOS 			
BIOS Features	 Plug and Play (PnP) APM 1.2 DMI 2.3 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.3 UEFI RTC (Real Time Clock) Wakeup 			

*Memory Voltage 1.2 V

Orive Bays			
	8v 2 5" and 8v 2 5" Hot swap drive have		
Hot-swap	8x 2.5" and 8x 2.5" Hot-swap drive bays		
System Cooling	9		
Fans	 3x 8cm heavy duty fans with optimal fan speed control 		
Power Supply	with Power Distributor		
920W high-effic with PMBus and	iency (94%+) AC-DC Redundant power supplies d I2C		
AC Input	■ 100-240 V, 50-60 Hz, 11-4.5 Amp		
DC Output	4 Amp @ +5V standby75 Amp @ +12V		
Certification	Platinum Certified [Test Report]		
PC Health Mon	 Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. 		
	 Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, 		
PC Health Mon	 Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. CPU Core 6-Phase-switching voltage 		
CPU	 Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. CPU Core 6-Phase-switching voltage regulator Total of five 4-pin PWM fans 5x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control 		

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) 		

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRC-LN4+ CSE-213AC-R920LPB	1 1	Super X10DRC-LN4+ Motherboard 2U Black SC218G Chassis
Backplane	BPN-SAS3-213A	1	SAS3 backplane with 16x 2.5" drive bays, for CSE-213AC chassis, support SGPIO SES2 management and have 4x Mini-SAS HD connectors,RoHS/REACH,PBF
Cable 1	CBL-SAST-0568	2	Internal Mini-SAS HD to Mini-SAS HD 35cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
Cable 2	CBL-SAST-0631	2	cross-over mini SAS HD to 4 SATA w/SB, S. 55cm. 30AWG,RoHS/REACH
Cable 3	CBL-SAST-0614	2	RA to S mini SAS HD 12Gb/s, 40cm, 30AWG,HF,RoHS/REACH,PBF
Cable 4	CBL-SAST-0591	2	cross-over mini SAS HD to 4 SATA w/SB, S. 75cm. 30AWG,HF,RoHS/REACH,PBF
Heatsink / Retention	SNK-P0048P	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Square ILM MB
Power Supply	PWS-920P-1R	2	1U REDUNDANT 920W PMBus 94% EFFICIENCY
Cable 5	CBL-0088	3	10.5", 4 PIN MIDDLE FAN POWER EXTENSION (PWM)
Cable 6	CBL-0217L	1	16 pin control panel converter cable for SC826,846, 22cm, PBF
Cable 7	CBL-0071L	1	ROUND 16 pin TO 16 PIN RIBBON FP CABLE 30
Fan 1	FAN-0126L4	3	80x80x38 mm 7K RPM Chassis Middle Fan w/ Housing
Drive Tray(s)	MCP-220-00009-01	1	Black 5.25
Drive Tray(s)	MCP-220-00023-01	1	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836
Drive Tray(s)	MCP-220-00047-0B	16	Black gen 3rd hot-swap 2.5inch HDD tray
Mounting Rails	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2\"W

Optional Parts List			
	Part Number	Qty	Description
Onsite Service Program	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

Note: Different GPU/Xeon Phi cards require special brackets, for more information please refer to the user's manual