



SuperStorage Server 2028R-NR48N (Complete System Only)

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Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

Due to the complexity of integration, this product is sold as completely assembled systems only (with minimum 24 NVMe and 1 NIC or SIOM card).

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Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; QPI up to 9.6GT/s
 2. Up to **3TB†** ECC 3DS LRDIMM , up to DDR4- **2400†**MHz ; 24x DIMM slots
 3. 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
 4. SIOM for flexible networking options
 5. 48x 2.5" Hot-swap NVMe drive bays; 2x 2.5" rear Hot-swap SATA drive bays
 6. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
 7. 5x 8cm hot-swap redundant PWM fans
 8. 1600W Redundant Power Supplies **Titanium Level (96%)**
- (Simply Double)



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

Specifications

Product SKUs	
SSG-2028R-NR48N	■ SuperServer 2028R-NR48N (Black)
Motherboard	
Super X10DSC+	
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 * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
System Memory	
Memory Capacity	■ 24x 288-pin DDR4 DIMM slots ■ Up to 3TB† ECC 3DS LRDIMM, 768GB ECC RDIMM
Memory Type	■ 2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	■ RDIMM: 32GB, 16GB, 8GB, 4GB ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB
Memory Voltage	■ 1.2 V

Chassis	
Form Factor	■ 2U Rackmount
Model	■ CSE-226STS-R1K62P1
Dimensions	
Width	■ 17.2" (437mm)
Height	■ 3.5" (89mm) ■ 30.2" (767mm) ■ With Cable Management Arm Installed: 35.2" (895mm)
Depth	■ 30.2" (767mm) ■ With Cable Management Arm Installed: 35.2" (895mm)
Available Colors	■ Black
Front Panel	
Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power status LED ■ Hard drive activity LED ■ 2 Network activity LEDs ■ System Overheat LED ■ Power fail LED
Expansion Slots	
PCI-Express	■ 2 PCI-E 3.0 x16 slots ■ 1 PCI-E 3.0 x8 slots ■ Slot 3 Occupied by NVMe AOC
Drive Bays	
Hot-swap	■ 48x 2.5" Hot-swap NVMe drive bays ■ 2x 2.5" rear Hot-swap SATA drive bays
Backplane	

Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 chipset Support for Intelligent Platform Management Interface v.2.0
IPMI	<ul style="list-style-type: none"> IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> SIOM support for flexible networking options
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
LAN	<ul style="list-style-type: none"> LAN ports via SIOM Add-On-Card
USB	<ul style="list-style-type: none"> 3 USB 3.0 ports (2 rear + 1 Type A)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 port / 1 Header

Two 24 port NVMe backplanes, each supporting up to 24x 2.5" NVMe SSDs	
System Cooling	
Fans	<ul style="list-style-type: none"> 5x 8cm hot-swap redundant PWM cooling fans
Power Supply	
1600W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1600W
Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 203 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 13 - 9A / 50-60Hz 200-240Vac / 10 - 8A / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 83.3A / Min: 0A (100-127Vac) Max: 133A / Min: 0A (200-240Vac)
12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]

System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI
BIOS Features	

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 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

[See Parts List](#)

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