

## SuperStorage 1029P-NES32R (Complete System Only)



**Integrated Board**



[\(/products/motherboard/Xeon/C620/X11DSF-E.cfm\)](https://products/motherboard/Xeon/C620/X11DSF-E.cfm)

**X11DSF-E** ([\(/products/motherboard/Xeon/C620/X11DSF-E.cfm\)](https://products/motherboard/Xeon/C620/X11DSF-E.cfm))

**Views:** | [Angled View \(/a\\_images/products/views/1029P-NES32R\\_angle.jpg\)](#) |  
[Top View \(/a\\_images/products/views/1029P-NES32R\\_top.jpg\)](#) |  
[Front View \(/a\\_images/products/views/1029P-NES32R\\_front.jpg\)](#) | [Rear View \(/a\\_images/products/views/1029P-NES32R\\_rear.jpg\)](#) |

**Complete System Only:** To maintain quality and integrity, this product is sold only as a completely-assembled system (including but not limited to 2 CPUs, 2 DIMMs, and 4 drives).

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [NVMe Options](#)

[Manuals](#)

[OS Certification Matrix](#)

[\(/support/resources/OS/OS\\_Certification\\_Intel.cfm?](https://support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SSG-1029P-NES32R)

[MProduct\\_Name=SSG-1029P-NES32R\)](https://support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SSG-1029P-NES32R)

[Drive Options](#)

## Key Applications

- IOPS Intensive Application
- Database Application
- Hyperconverged Infrastructure

## Key Features

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)<sup>‡</sup>
2. 24 DIMMs; up to 6TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM<sup>††</sup>
3. 2 PCI-E 3.0 x16 (FHHL) slots, 1 PCI-E 3.0 x4 (LP) slot
4. 32 Hot-swap PCI-E E1.S or M.2 drive bays (M.2 is not hot-swappable). M.2 supports Form Factor 22x42/60/80/110 (MCP-220-12106-0N tray required)
5. 2x 10GBase-T LAN ports via Intel X550
6. 8x 40x56mm counter-rotation PWM fans
7. 1600W Redundant Power Supplies **Titanium Level (96%)**

[Product Flyer \(/flyer/f\\_E1S.pdf\)](#)

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

## Specifications

## Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

### SSG-1029P-NES32R

SuperStorage 1029P-NES32R (Black)

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## Motherboard

### Super X11DSF-E

([/products/motherboard/Xeon/C620/X11DSF-E.cfm](https://products/motherboard/Xeon/C620/X11DSF-E.cfm))

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## Processor

### CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors<sup>‡</sup>,

3 UPI up to 10.4GT/s

Support CPU TDP 70-205W

### Cores

Up to 28 Cores

### Note

<sup>‡</sup> BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

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## System Memory

### Memory Capacity

24 DIMM slots

Up to 6TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM

Supports Intel® Optane™ DCPMM<sup>††</sup>

### Memory Type

2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

### Note

<sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

<sup>††</sup> Cascade Lake only. Contact your Supermicro sales rep for more info.

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## On-Board Devices

### Chipset

Intel® C627 chipset

### Storage

PCI-E fan out switching supporting 32x E1.S

### Network Connectivity

Intel® X550 Dual Port 10GBase-T

### IPMI

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

### Graphics

ASPEED AST2500 BMC

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## Input / Output

### LAN

2 RJ45 10GBase-T ports

1 RJ45 Dedicated IPMI LAN port

### USB

2 USB 3.0 ports (front)

2 USB 3.0 ports (rear)

## Chassis

### Form Factor

1U Rackmount

### Model

CSE-121EF-R1K62P

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## Dimensions and Weight

### Height

1.7" (43mm)

### Width

17.2" (437mm)

### Depth

30" (762mm)

### Weight

Net Weight: 40 lbs (18.1kg)

Gross Weight: 52 lbs (23.6kg)

### Available Color

Black

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## Front Panel

### Buttons

Power On/Off button

UID button

### LEDs

Power LED

Hard drive activity LED

Network activity LEDs

System Overheat LED / Fan fail LED /

UID LED

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## Expansion Slots

### PCI-Express

2 PCI-E 3.0 x16 (FHHL) slots

1 PCI-E 3.0 x4 (LP) slot

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## Drive Bays / Storage

### Hot-swap

32 Hot-swap PCI-E E1.S drive slots

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## System Cooling

### Fans

8x 40x56mm counter-rotation PWM fan

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## Power Supply

1600W Redundant Power Supplies with PMBus

### Total Output Power

1600W/1000W

### Dimension

(W x H x L)

73.5 x 40 x 203 mm

### Input

100-127Vac / 13 - 9A / 50-60Hz

200-240Vac / 10 - 8A / 50-60Hz

### +12V

Max: 83.3A / Min: 0A (100-127Vac)

Max: 133A / Min: 0A (200-240Vac)

**Video**

1 VGA D-Sub connector port

**Serial Header**

1 COM port (header)

**System BIOS****BIOS Type**

AMI 32Mb SPI Flash ROM

**Management****Software**

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](/solutions/IPMI.cfm)

KVM with dedicated LAN

NMI

[SSM \(/solutions/SMS\\_SSM.cfm\)](/solutions/SMS_SSM.cfm), [SPM](/solutions/SMS_SPM.cfm)[\(/solutions/SMS\\_SPM.cfm\)](/solutions/SMS_SPM.cfm), [SUM](/solutions/SMS_SUM.cfm)[\(/solutions/SMS\\_SUM.cfm\)](/solutions/SMS_SUM.cfm)[SuperDoctor® 5 \(/solutions/SMS\\_SD5.cfm\)](/solutions/SMS_SD5.cfm)

Watch Dog

**Power Configurations**

ACPI / APM Power Management

**PC Health Monitoring****CPU**

Monitors for CPU Cores, Chipset Voltages, Memory.

4+1 Phase-switching voltage regulator

**FAN**

Fans with tachometer monitoring

Status monitor for speed control

Pulse Width Modulated (PWM) fan connectors

**Temperature**

Monitoring for CPU and chassis environment

Thermal Control for fan connectors

**Parts List****12Vsb**

Max: 2.1A / Min: 0A

**Output Type**

25 Pairs Gold Finger Connector

**Certification**<http://www.plugloadsolutions.com/80PlusPowerSupplies?id=69&type=2>, Titanium Level[\[ Test Report](#)[\(/products/powersupply/80PLUS/80PLUS\\_F](/products/powersupply/80PLUS/80PLUS_F)[1R.pdf\) \]](#)**Operating Environment****RoHS**

RoHS Compliant

**Environmental Spec.**

Operating Temperature:

10°C ~ 35°C (50°F ~ 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:

[Global SKU \(/en/products/SMC\\_global\\_skus\)](/en/products/SMC_global_skus)