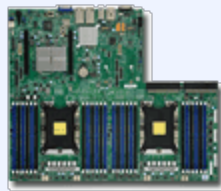


SuperServer 1029P-NR32R



Integrated Board



X11DPS-RE

Key Features

- High Throughput Ingest
- High Density Hot Storage
- HPC / Data Analytics
- Media/Video Streaming
- Content Delivery Network (CDN)
- Big Data Top of Rack Storage

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 3TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 24 DIMM slots
3. 2 PCI-E 3.0 x16 slots
4. 32 Hot-swap NVMe SSDs (U.2 or Intel "Ruler"), individual SSD power cycling
5. 2x 10GBase-T LAN ports
6. 8 Hot-swap 40mm cooling fans
7. 1600W Redundant Power Supplies Platinum Level

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

Specifications

Product SKUs

- SYS-1029P-NR32R
- SuperServer 1029P-NR32R (Black)

Motherboard

Super X11DPS-RE

Processor/Cache

- CPU
- Dual Socket P (LGA 3647)
 - Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
 - Support CPU TDP 70-205W
- Cores
- Up to 28 Cores with Intel® HT Technology

System Memory

- Memory Capacity
- 24 DIMM slots
 - Up to 3TB ECC 3DS LRDIMM, 3TB ECC RDIMM, DDR4 up to 2666MHz
- Memory Type
- 2666/2400/2133MHz ECC DDR4 SDRAM

Chassis

- Form Factor
- 1U Rackmount
 - 32x ruler drive slots
- Model
- CSE-136HTS-R1K69P-R2

Dimensions and Weight

- Height
- 1.7" (43mm)
- Width
- 17.26" (438.4mm)
- Depth
- 35.95" (913mm)

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

Expansion Slots

- PCI-Express
- 2 PCI-E 3.0 x16 slots

On-Board Devices

Chipset	▪ Intel® C627 chipset
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

Input / Output

LAN	▪ 2 RJ45 10GBase-T ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 2 USB 3.0 ports (rear)
Video	▪ 1 VGA port
Serial Header	▪ 1 COM port (header)

System BIOS

BIOS Type	▪ AMI 32Mb SPI Flash ROM
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Management

Software	▪ Intel® Node Manager ▪ IPMI 2.0 ▪ KVM with dedicated LAN ▪ NMI ▪ SSM , SPM , SUM ▪ SuperDoctor® 5 ▪ Watch Dog
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Power Configurations	▪ ACPI / APM Power Management
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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

Drive Bays

Hot-swap	▪ Dual Drawer/Tray with a total of 32 Hot-swap NVMe SSDs (U.2 or Intel "Ruler")
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System Cooling

Fans	▪ 8 Hot-swap 40mm counter-rotating fans
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Power Supply

1600W Redundant Power Supplies with PMBus

Total Output Power and Input	▪ 1000W with input 100-127Vac, 47-63Hz ▪ 1600W with input 200-240Vac, 47-63Hz ▪ 1600W with input 240-240Vdc (only for China)
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Dimension (W x H x L)	▪ 73.5 x 40 x 185 mm
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AC Input Frequency	▪ 47-63Hz
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+12V	▪ Max: 83A / Min: 0A (100-127Vac) ▪ Max: 132A / Min: 0A (200-240Vac) ▪ Max: 132A / Min: 0A (240-240Vdc) For China only
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12Vsb	▪ Max: 2.1A / Min: 0A
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Output Type	▪ Backplanes (Gold Finger)
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Certification	  Platinum Certified
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Operating Environment

RoHS	▪ RoHS Compliant
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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: 5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPS-RE	1	Super X11DPS-RE Motherboard
	CSE-136HTS-R1K69P-R2	1	CSE-136HTS-R1K69P-R2 Chassis
Backplane	BPN-EDS3-136P1	2	1U Ruler NVMe backplane support 16x Ruler slots, used in 1U 32 Ruler dense storage system
Riser Card	RSC-R1U-E16R	2	RSC-R1U-E16R
Heatsink / Retention	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K69P-1R	2	AC-DC 1600W at high and 1000W at low line, Platinum Level
Fans	FAN-0163L4	8	40x40x56 mm 23.3K-20.3K RPM Counter-rotating Fan
Rail Set	MCP-290-11809-0N	1	Rail set, Quick/Quick, Auto Latch, travel 535mm Short Version, Post to Post 685mm

Optional Parts List

	Part Number	Qty	Description
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	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)