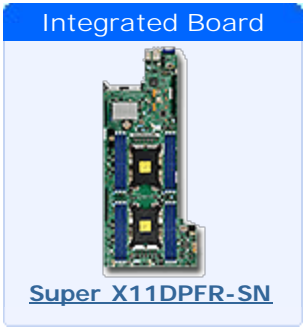


# SuperServer F629P3-RC0B



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### Key Features

#### 4 Hot-plug System Nodes in 4U Each node supports:

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 1.5TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 12 DIMM slots
3. Expansion slots: 1 PCI-E 3.0 x16 (LP)  
1 PCI-E 3.0 x16 (for [SIOM](#) )
4. SIOM Network card,  
1 dedicated IPMI LAN port
5. 1 VGA, 2 USB 3.0 ports
6. 8 Hot-swap 3.5" SAS3/SATA3 or  
6 Hot-swap 3.5" SAS3/SATA3 +  
2 optional NVMe U.2
7. SAS3 via Broadcom 3008
8. 2x 8cm 14k RPM middle fans
9. 1200W Redundant Power Supplies  
Titanium Level (96% Efficiency)

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

### Specifications

#### Product SKUs

SYS-F629P3-RC0B	▪ SuperServer F629P3-RC0B (Black)
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#### Motherboard

Super X11DPFR-SN
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#### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>▪ Dual Socket P (LGA 3647)</li> <li>▪ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s</li> <li>▪ Support CPU TDP 70-165W with IVR</li> </ul>
Cores	▪ Up to 28 Cores with Intel® HT Technology

#### System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>▪ 12 DIMM slots</li> <li>▪ Up to 1.5TB ECC 3DS LRDIMM, 1.5TB ECC RDIMM, DDR4 up to 2666MHz</li> </ul>
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM

#### On-Board Devices

#### Chassis

Form Factor	▪ 4U Rackmount
Model	▪ CSE-F424AS2-R1K23BP

#### Dimensions and Weight

Width	▪ 17.63" (448mm)
Height	▪ 6.96" (177mm)
Depth	▪ 29" (737mm)
Package	▪ 28.3" (W) x 15.0" (H) x 42.4" (D)
Weight	<ul style="list-style-type: none"> <li>▪ Net Weight: 150 lbs (68.04 kg)</li> <li>▪ Gross Weight: 200 lbs (90.71 kg)</li> </ul>
Available Colors	▪ Black

#### Front Panel

Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ UID button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power status LED</li> <li>▪ Hard drive activity LED</li> <li>▪ Network activity LEDs</li> <li>▪ Information LED (UID, Fan failure, Overheat)</li> </ul>

Chipset	Intel® C621 chipset
SAS	▪ SAS3 (12Gbps) via Broadcom 3008
Network Controllers	▪ Flexible networking via <a href="#">SIOM</a>
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 (per node)

SAS	▪ 8 SAS3 (12Gbps) ports
NVMe	▪ 2 NVMe U.2 option
LAN	▪ SIOM flexible Network card ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 2 USB 3.0 ports (rear)
VGA	▪ 1 VGA port

#### System BIOS

BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS
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#### Management

Software	▪ Intel® Node Manager ▪ <a href="#">IPMI 2.0</a> ▪ KVM with dedicated LAN ▪ <a href="#">SuperDoctor® 5</a> ▪ Watch Dog
Power Configurations	▪ ACPI 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

#### Expansion Slots (per node)

PCI-Express	▪ 1 PCI-E 3.0 x16 (Low-profile) ▪ 1 PCI-E 3.0 x16 (SIOM)
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#### Drive Bays (per node)

Hot-swap	▪ 8 Hot-swap 3.5" SAS3/SATA3 or 6 Hot-swap 3.5" SAS3/SATA3 + 2 optional NVMe U.2
M.2	▪ M.2 Support

#### Backplane

1 SAS/SATA backplane

#### System Cooling (per node)

Fans	▪ 2x 8cm 14 RPM middle fans
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#### Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus

Total Output Power	▪ 1000W/1200W
Dimension (W x H x L)	▪ 76 x 40 x 336 mm
Input	▪ 100-127Vac / 15-12A / 50-60Hz ▪ 200-240Vac / 8.5-7A / 50-60Hz ▪ 200-240Vdc / 8.5-7A (for CCC only)
+12V	▪ Max: 83A / Min: 0A (100-127Vac) ▪ Max: 100A / Min: 0A (200-240Vac) ▪ Max: 100A / Min: 0A (200-240Vdc)
+5Vsb	▪ Max: 4A / Min: 0A
Output Type	▪ 19 Pairs Gold Finger Connector

Certification



UL/cUL/CB/BSMI/CE/CCC  
Titanium Level  
[ [Test Report](#) ]

#### 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: 5% to 95% (non-condensing)

## Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPFR-SN	4	Super X11DPFR-SN Motherboard
	CSE-F424AS2-R1K23BP	1	4U Chassis
<b>Backplane</b>	BPN-ADP-8S3008-1UF	4	BPN-ADP-8S3008-1UF
<b>Backplane</b>	BPN-ADP-X11DPFR	4	Power distribution board for X11DPFR-S(N)
<b>Backplane</b>	BPN-SAS3-F424-A2N2A	4	2-Port Hybrid Backplane support 2 x SAS3/SATA3/NVMe Storage Devices
<b>Backplane</b>	BPN-SAS3-F424-A6	4	6-port Fat Twin SAS3 12Gbps backplane, support up to 6x 3.5-inch SAS3/SATA3 HDD/SSD
<b>Cable 1</b>	CBL-0486L	12	2x2 to 2x2 15cm power cable HF. 18AWG
<b>Cable 2</b>	CBL-OTHR-0022L	4	20 to 20 pin cable for BPN-ADP-F418LS,7.5cm, 28AWG,RoHS/REACH,PBF
<b>Cable 3</b>	CBL-SAST-0691	4	MINI SAS HD RA- 2x MINI SAS HD,INT,15/59CM,28AWG
<b>Cable 4</b>	CBL-SAST-0706	4	MINI SAS HD (reversed RA)-MINI SAS HD,12G,INT,11CM,30AWG
<b>Heatsink / Retention</b>	SNK-P0068PSC	4	2U Passive CPU Heat Sink with a Side Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Heatsink / Retention</b>	SNK-P0069PSC	4	1.5U Proprietary 50-mm Tall Passive CPU Heat Sink with a Side Air Channel for X11 Purley Platform 2U Node Twin Series Servers
<b>Power Supply</b>	PWS-1K23A-1R	4	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH

Optional Parts List			
	Part Number	Qty	Description
<b>Backplane</b>	BPN-ADP-2UPWR-X11	-	1 per node for configurations with CPU at 145W or higher
<b>Cable</b>	CBL-0480L	-	1 per node for configurations with CPU at 145W or higher
<b>NVMe</b>	-	-	Contact Supermicro for configurations with more NVMe SSDs.
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)