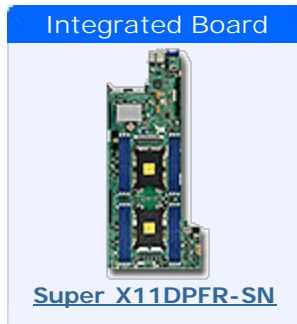


SuperServer F629P3-RTBN



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" SATA3 or
6 Hot-swap 3.5" SATA3 + 2 NVMe U.2
7. 2x 8cm 14k RPM middle fans
8. 1200W Redundant Power Supplies
Titanium Level (96% Efficiency)

[▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#)
[▶ Tested M.2 List](#) ▶ [NVMe Options](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Drive Options](#) ▶ [Tested SIOM](#)

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-RTBN ■ SuperServer F629P3-RTBN (Black)

Motherboard

[Super X11DPFR-SN](#)

Processor/Cache

CPU ■ Dual Socket P (LGA 3647)
■ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
■ Support CPU TDP 70-165W with IVR

Cores ■ Up to 28 Cores with Intel® HT Technology

System Memory

Memory Capacity ■ 12 DIMM slots
■ Up to 1.5TB ECC 3DS LRDIMM, 1.5TB ECC RDIMM, DDR4 up to 2666MHz

Memory Type ■ 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

Chipset ■ Intel® C621 chipset

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 ■ Net Weight: 150 lbs (68.04 kg)
■ Gross Weight: 200 lbs (90.71 kg)


Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ UID button

LEDs ■ Power status LED
■ Hard drive activity LED
■ Network activity LEDs
■ Information LED (UID, Fan failure, Overheat)

SATA	<ul style="list-style-type: none"> SATA3 (6Gbps)
Network Controllers	<ul style="list-style-type: none"> Flexible networking via SIOM
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output (per node)	
SATA	<ul style="list-style-type: none"> 14 SATA3 (6Gbps) ports
NVMe	<ul style="list-style-type: none"> 2 NVMe U.2 option
LAN	<ul style="list-style-type: none"> SIOM flexible Network card 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear)
VGA	<ul style="list-style-type: none"> 1 VGA port
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN SuperDoctor® 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

Expansion Slots (per node)	
PCI-Express	<ul style="list-style-type: none"> 1 PCI-E 3.0 x16 (Low-profile) 1 PCI-E 3.0 x16 (SIOM)
Drive Bays (per node)	
Hot-swap	<ul style="list-style-type: none"> 8 Hot-swap 3.5" SATA3 or 6 Hot-swap 3.5" SATA3 + 2 NVMe U.2
M.2	<ul style="list-style-type: none"> M.2 Support
Backplane	
1 SAS/SATA backplane	
System Cooling (per node)	
Fans	<ul style="list-style-type: none"> 2x 8cm 14 RPM middle fans
Power Supply (76mm Width)	
1200W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1200W
Dimension (W x H x L)	<ul style="list-style-type: none"> 76 x 40 x 336 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 15-12A / 50-60Hz 200-240Vac / 8.5-7A / 50-60Hz 200-240Vdc / 8.5-7A (for CCC only)
+12V	<ul style="list-style-type: none"> Max: 83A / Min: 0A (100-127Vac) Max: 100A / Min: 0A (200-240Vac) Max: 100A / Min: 0A (200-240Vdc)
+5Vsb	<ul style="list-style-type: none"> Max: 4A / Min: 0A
Output Type	<ul style="list-style-type: none"> 19 Pairs Gold Finger Connector
Certification	 <p>UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]</p>
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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
Motherboard / Chassis	MBD-X11DPFR-SN	4	Super X11DPFR-SN Motherboard
	CSE-F424AS2-R1K23BP	1	4U Chassis
Backplane	BPN-ADP-X11DPFR	4	Power distribution board for X11DPFR-S(N)
Backplane	BPN-SAS-F424-A6	4	6-port Fat Twin 6Gbps hot swappable HDD backplane, support up to 6x 3.5-inch SAS/SATA HDD
Backplane	BPN-SAS3-F424-A2N2A	4	2-Port Hybrid Backplane support 2 x SAS3/SATA3/NVMe Storage Devices
Cable 1	CBL-0486L	12	2x2 to 2x2 15cm power cable HF. 18AWG
			20 to 20 pin cable for BPN-ADP-F418LS,7.5cm,

Cable 2	CBL-OTHR-0022L	4	28AWG,RoHS/REACH,PBF
Cable 3	CBL-SAST-0616	4	MINI SAS HD-4 SATA,6G,INT,50CM,50CM SB,30AWG
Cable 4	CBL-SAST-0974-1	8	OcuLink v 1.0,INT,PCIe NVMe SSD, 37CM,34AWG
Cable 5	CBL-SAST-1005-1	4	2X MINI SAS HD to 2X SATA,SB,INT,55 CM
Heatsink / Retention	SNK-P0068PSC	4	2U Passive CPU Heat Sink with a Side Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	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
Power Supply	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
Backplane	BPN-ADP-2UPWR-X11	-	1 per node for configurations with CPU at 145W or higher
Cable	CBL-0480L	-	1 per node for configurations with CPU at 145W or higher
NVMe	-	-	Contact Supermicro for configurations with more NVMe SSDs.
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)