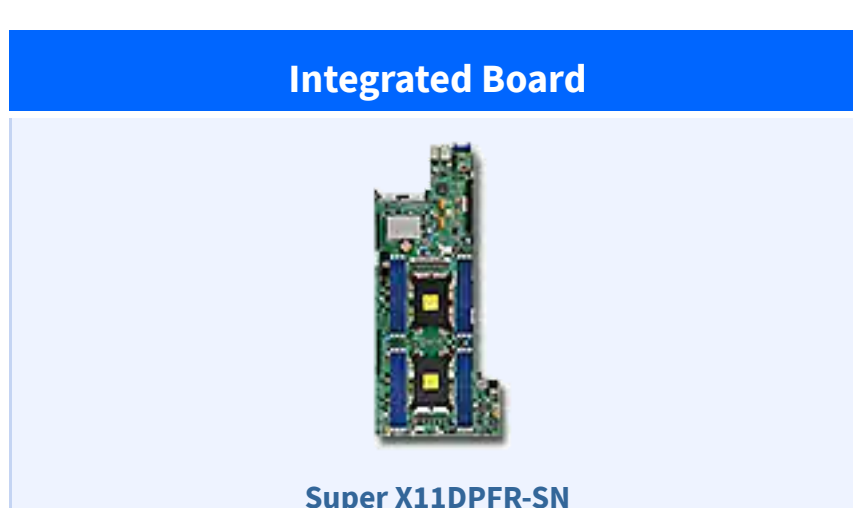


SuperServer F629P3-RTBN



Views: | [Angled \(node\)](#) | [Top \(node\)](#) | [Angled Front \(system\)](#) | [Rear \(system\)](#) |



Key Features

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

- Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[‡]
- 12 DIMMs; up to 3TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
- Expansion slots: 1 PCI-E 3.0 x16 (LP) 1 PCI-E 3.0 x16 (for [SIOM](#))
- SIOM Network card, 1 dedicated IPMI LAN port
- 1 VGA, 2 USB 3.0 ports
- 8 Hot-swap 3.5" SATA3 or 6 Hot-swap 3.5" SATA3 + 2 NVMe U.2 M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key
- 2x 8cm 14k RPM middle fans
- 1200W Redundant Power Supplies **Titanium Level** (96% Efficiency)

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

Note: Image above may show a varied configuration of 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 (per Node)

CPU Dual Socket P (LGA 3647)
2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[‡],
Dual UPI up to 10.4GT/s
Support CPU TDP 70-165W with IVR

Cores Up to 28 Cores

Note [‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R).

Extended thermal solutions may be required to support CPUs higher than 165W TDP, please contact Supermicro Technical Support for additional information.

System Memory (per Node)

Memory Capacity 12 DIMM slots
Up to 3TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM
Supports Intel® Optane™ DCPMM^{††}

Memory Type 2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

Note [†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro
^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset Intel® C621 chipset

SATA SATA3 (6Gbps)

Network Controllers Flexible networking via [SIOM](#)

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)

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

Management

Software Intel® Node Manager
[IPMI 2.0](#)
KVM with dedicated LAN
[SuperDoctor® 5](#)
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

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)

Expansion Slots (per node)

PCI-Express 1 PCI-E 3.0 x16 (Low-profile)
1 PCI-E 3.0 x16 (SIOM)

Drive Bays (per node)

Hot-swap 8 Hot-swap 3.5" SATA3 or 6 Hot-swap 3.5" SATA3 + 2 NVMe U.2

M.2 **M.2 Interface:** PCI-E 3.0 x4
M.2 Form Factor: 2260, 2280, 22110
M.2 Key: M-Key

Backplane

1 SAS/SATA backplane

System Cooling (per node)

Fans 2x 8cm 14 RPM middle fans

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

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
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
Cable 2	CBL-OTHR-0022L	4	20 to 20 pin cable for BPN-ADP-F418LS,7.5cm, 28AWG,RoHS/REACH,PBF
Cable 3	CBL-PWCD-0900	4	PWCD,US/EU/Canada/China/Australia,JEC60320 C14 TO C13,4FT,17AWG
Cable 4	CBL-SAST-0616	4	MINI SAS HD-4 SATA,6G,INT,50CM,50CM SB,30AWG
Cable 5	CBL-SAST-0974-1	8	OcuLink v 1.0,INT,PCIe NVMe SSD, 37CM,34AWG
Cable 6	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 ^{• eStore}	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

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