

# SRX4300 Firewall Hardware Guide

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*SRX4300 Firewall Hardware Guide*

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Juniper Networks hardware and software products are Year 2000 compliant. Junos OS has no known time-related limitations through the year 2038. However, the NTP application is known to have some difficulty in the year 2036.

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## About This Guide

Use this guide to install the hardware and perform initial software configuration, routine maintenance, and troubleshooting for the Juniper Networks® SRX4300 Firewall. After completing the installation and basic configuration procedures covered in this guide, you can refer to the Junos® OS documentation for information about further software configuration.

# 1

CHAPTER

## Fast Track: Initial Installation

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### IN THIS CHAPTER

- [Fast Track to Rack Installation and Power | 2](#)
- [Claim, Onboard, and Configure SRX4300 | 6](#)

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# Fast Track to Rack Installation and Power

## SUMMARY

This procedure guides you through the simplest steps to install your SRX4300 Firewall in a rack and connect it to power. Have more complex installation needs? See "Install the SRX4300 in a Rack" on [page 51](#).

## IN THIS SECTION

- [Install the SRX4300 in a Rack | 2](#)
- [Connect to Power | 4](#)

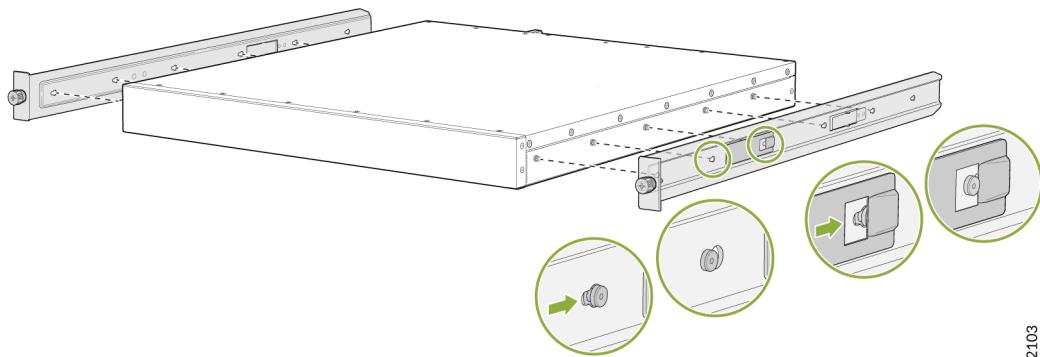
## Install the SRX4300 in a Rack

You can install the SRX4300 Firewall in a four-post rack or cabinet. We'll walk you through the steps to install an AC-powered firewall in a square-hole four-post rack.

**Before you install, review the following:**

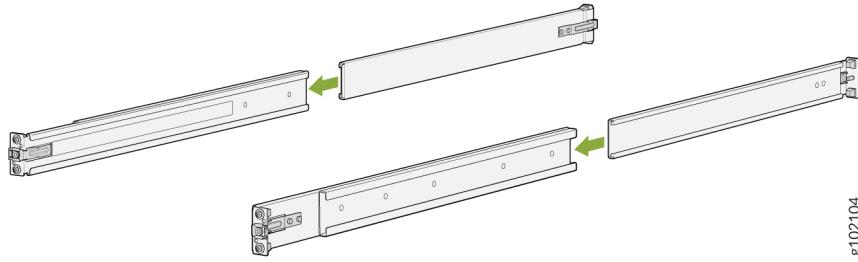
- ["SRX4300 Site Guidelines and Requirements" on page 38](#).
- [General Safety Guidelines and Warnings](#).
- ["Unpack the SRX4300" on page 49](#).

1. Wrap and fasten one end of the electrostatic discharge (ESD) cable grounding strap around your bare wrist, and connect the other end to a site ESD point.
2. Attach the side-mounting brackets to the chassis. Align the keyholes of the mounting brackets over the shoulder screws of the chassis and slide the mounting brackets towards the rear of the chassis.

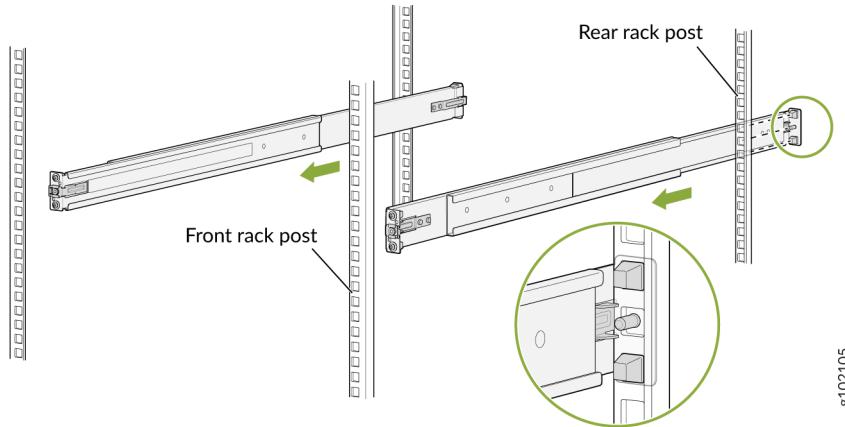


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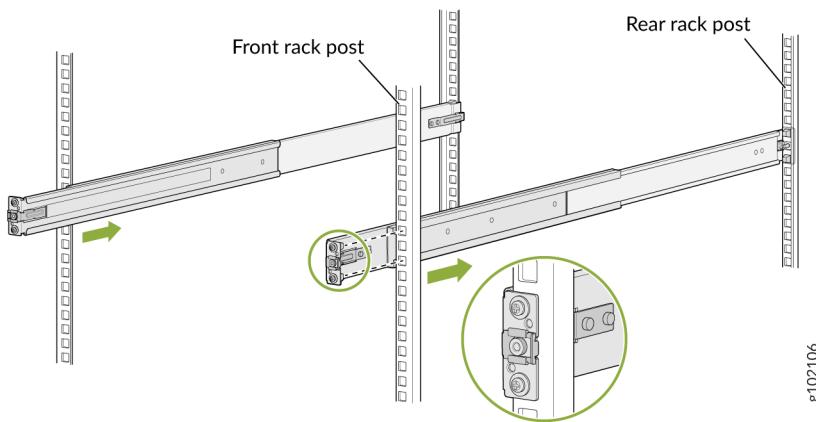
3. Assemble the mounting rails by sliding the rear rails into the front rails.



4. Align the guide blocks of the rear-mounting rail with the rear-post holes. Pull the rear-mounting rail toward the front of the rack to lock the rail in place. You'll hear a distinct click when the latch locks into the rack holes.

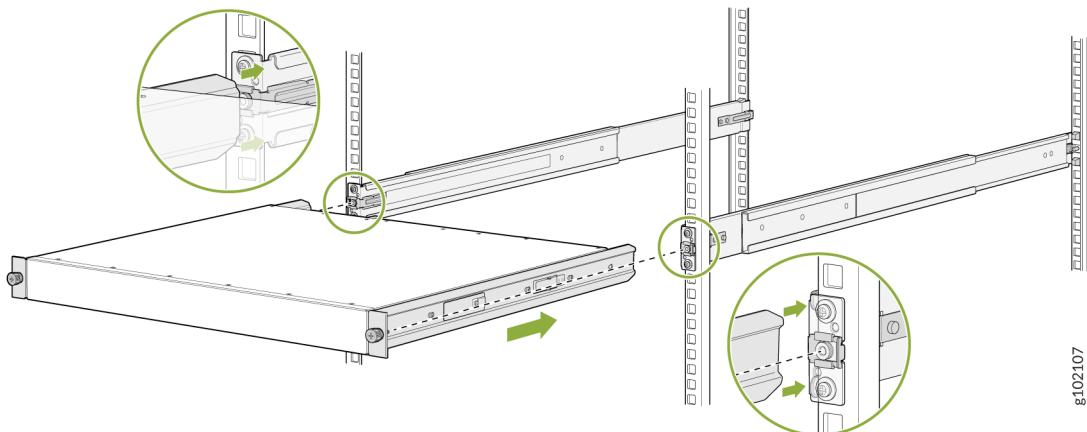


5. Align the guide blocks of the front-mounting rail with the front-post holes. Push the front-mounting rail toward the rear of the rack to lock the rail in place. You'll hear a distinct click when the latch locks into the rack holes.

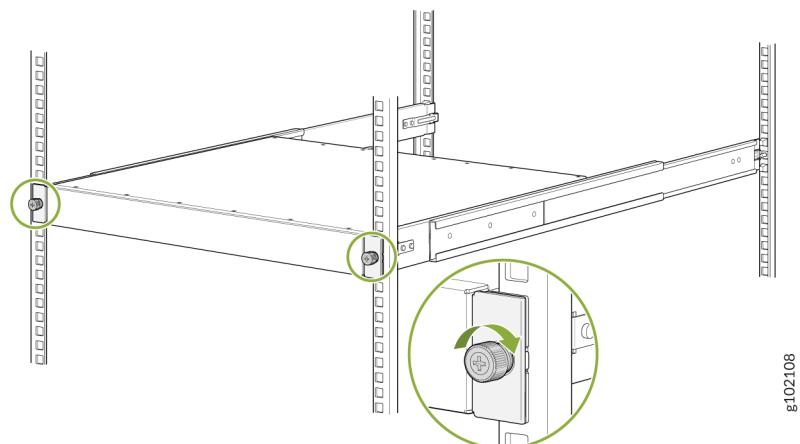


6. Ensure that the front and rear latches on the mounting rails are locked in place.

7. Lift the device and position it in the rack, aligning the side-mounting brackets with the mounting rails. Slide the device into the channels of the mounting rails.



8. Tighten the two thumbscrews to secure the device.



## Connect to Power

### IN THIS SECTION

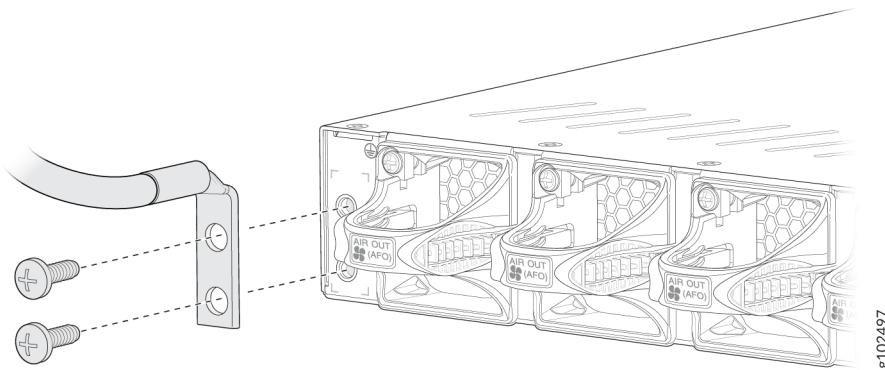
- [Ground the SRX4300 Firewall | 5](#)
- [Connect the Power Cord and Power On the Firewall | 5](#)

To connect the SRX4300 Firewall to AC power, you must do the following:

## Ground the SRX4300 Firewall

To ground the SRX4300 Firewall, do the following:

1. Wrap and fasten one end of the electrostatic discharge (ESD) cable grounding strap around your bare wrist, and connect the other end to a site ESD point.
2. Connect the grounding cable to a proper earth ground, such as the rack in which you mount the device.
3. Place the grounding cable terminal attached to the grounding cable over the grounding point.
4. Secure the grounding cable terminal to the grounding point using the M5 screws.



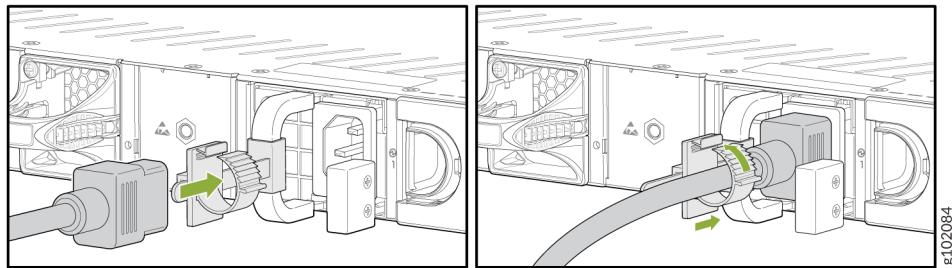
5. Dress the grounding cable. Ensure that the cable doesn't block access to or come in contact with other device components, and that it doesn't drape where people could trip over it.

## Connect the Power Cord and Power On the Firewall

For information about the supported AC power cord specifications, see ["Supported AC Power Cords" on page 31](#).

To connect the power cord, do the following:

1. Ensure that the power supply is fully inserted in the rear panel of the firewall.
2. Insert the coupler end of the power cord into the AC power cord socket on the rear panel.
3. Push the power cord retainer on to the power cord.



4. If the AC power source outlet has a power switch, turn it off.
5. Plug the power cord into an AC power source outlet.
6. If the AC power source outlet has a power switch, turn it on. The firewall doesn't have a power switch and powers on as soon as you plug it in.

## Claim, Onboard, and Configure SRX4300

### SUMMARY

This topic provides you the pointers to onboard and configure the SRX4300 firewalls using Juniper® Security Director, or configure SRX4300 firewalls using J-Web or Junos OS CLI.

If you have a Juniper® Security Director license, you can follow a few simple steps to get an SRX4300 up and running on the Juniper® Security Director Cloud portal. See [for more information](#).

**Table 1: Onboard and Configure SRX4300 Using Juniper® Security Director**

If you want to	Then
Claim and onboard to Juniper® Security Director Cloud	See <a href="#">Onboard SRX Series Firewalls to Security Director Cloud</a>
Configure additional features	See <a href="#">Juniper Security Director Cloud User Guide</a>

You can configure the SRX4300 using the J-Web GUI. See [Table 2 on page 7](#) for more information.

**Table 2: Configure SRX4300 Using J-Web**

If you want to	Then
Customize basic configuration	See "Configuring the SRX4300 Using J-Web " on page 74
Configure additional features using J-Web	See <a href="#">J-Web for SRX Series Documentation</a>
Set up your SRX4300 with advanced security measures to protect and defend your network	See <a href="#">SRX Series Up and Running with Advanced Security Features</a>
See, automate, and protect your network with Juniper Security	Visit the <a href="#">Security Design Center</a>
Download, activate, and manage your software licenses to unlock additional features for your SRX firewall	See <a href="#">Activate Junos Licenses</a> in the <a href="#">Juniper Licensing Guide</a>

You can also configure the SRX4300 using the Junos OS CLI. See [Table 3 on page 7](#) for more information.

**Table 3: Configure SRX4300 Using Junos OS CLI**

If you want to	Then
Customize basic configuration	See "Configuring Root Authentication and the Management Interface from the CLI" on page 76
Explore the software features supported on the SRX4300	See <a href="#">Feature Explorer</a>
Configure Junos features on the SRX4300	See <a href="#">User Guides</a>

# 2

CHAPTER

## Overview

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### IN THIS CHAPTER

- SRX4300 Firewall Overview | **9**
- SRX4300 Chassis | **11**
- SRX4300 Ports and Interfaces | **23**
- Cooling System and Airflow in SRX4300 Firewalls | **27**
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# SRX4300 Firewall Overview

## IN THIS SECTION

- [SRX4300 Firewall Overview | 9](#)
- [Field-Replaceable Units in SRX4300 | 10](#)
- [Benefits of SRX4300 Firewall | 10](#)

## SRX4300 Firewall Overview

The SRX4300 Firewall is a midrange next-generation firewall that consolidates firewall and security features. The SRX4300 is ideal for small to medium enterprise edge, campus edge, data center edge, and secure VPN router deployments for distributed enterprise use cases.

The SRX4300 is a 1-U chassis with the following port configurations:

- Eight 1/2.5/5/10 Gigabit Ethernet (GbE) BASE-T ports
- Eight 1/10GbE SFP+ ports
- Four 1/10/25GbE SFP28 ports
- Six 4x10/4x25/2x50/40/100GbE QSFP28 ports
- Two 1GbE SFP high availability (HA) ports

All ports are Media Access Control Security (MACsec)-capable ports. The SRX4300 ships with a 120-GB SSD and a 960-GB SSD that are not field replaceable.

The SRX4300 Firewall is available in both AC and DC models. The SRX4300 runs the Junos OS and provides next-generation firewall capabilities including application identification (AppID), User Firewall (UserFW), intrusion prevention system (IPS), Content Security, and so on. It also provides advanced threat detection and mitigation capabilities through Juniper Advanced Threat Prevention Cloud (Juniper ATP Cloud).

You can manage the SRX4300 using Juniper® Security Director on Premise, Juniper® Security Director Cloud, J-Web, and the CLI.

## Field-Replaceable Units in SRX4300

Field-replaceable units (FRUs) are components that you can replace at your site. The SRX4300 supports the following FRUs:

- Fan modules
- Power supply units (PSUs)
- Transceivers

You can remove and replace the power supply units, fan modules, and transceivers without powering off the device or disrupting the device functions.



### CAUTION:

- Replace a failed PSU with a new PSU within 5 minutes of removal of the failed PSU. When a PSU fails, the device continues to operate with only one PSU running. You need quick replacement of the PSU to maintain power redundancy.
- The time within which you must replace a failed fan module depends on the ambient temperature. Check the temperature of the CB 0 TMP75 Inlet Right sensor in the show chassis environment command output.

If the temperature is up to 104°F (40°C), you must replace the fan module within 2 minutes. If the temperature is above 104°F (40°C), you must replace the fan module within 40 seconds.

## Benefits of SRX4300 Firewall

- **Deployment flexibility**—The SRX4300 integrates carrier-class routing and feature-rich switching in a single platform. You can install the SRX4300 in enterprise edge, campus edge, and data center edge deployments.
- **Advanced threat prevention**—You can secure your network with Juniper ATP Cloud integrated with the SRX4300. Juniper ATP Cloud provides advanced threat mitigation and detection capabilities, which help protect your network against potential vulnerabilities such as zero-day attacks and other unknown threats.

# SRX4300 Chassis

## IN THIS SECTION

- Chassis Physical Specifications for SRX4300 | [11](#)
- Chassis Electrical Specifications for SRX4300 | [12](#)
- Front Panel of an SRX4300 | [12](#)
- Rear Panel of an SRX4300 | [14](#)
- Chassis Status LEDs | [16](#)
- Management Port LEDs | [18](#)
- Network Port LEDs | [19](#)

The SRX4300 Firewall chassis is a rigid sheet metal structure that houses all the other hardware components.

## Chassis Physical Specifications for SRX4300

The SRX4300 Firewall has a 1RU form factor and can be installed in a standard 19-inch rack. [Table 4 on page 11](#) summarizes the physical specifications of SRX4300.

**Table 4: Physical Specifications of SRX4300**

Model	Height	Width	Depth	Weight
SRX4300	1.74 in. (4.42 cm)	17.28 in. (43.89 cm)	18.20 in. (46.23 cm)	18.30 lb (8.3 kg)



**NOTE:** We ship the SRX4300 with only one power supply unit (PSU). The weight of an SRX4300 device configured with 2 PSUs is 20.5 lb (9.3 kg).

## Chassis Electrical Specifications for SRX4300

[Table 5 on page 12](#) describes the chassis electrical specifications for SRX4300.

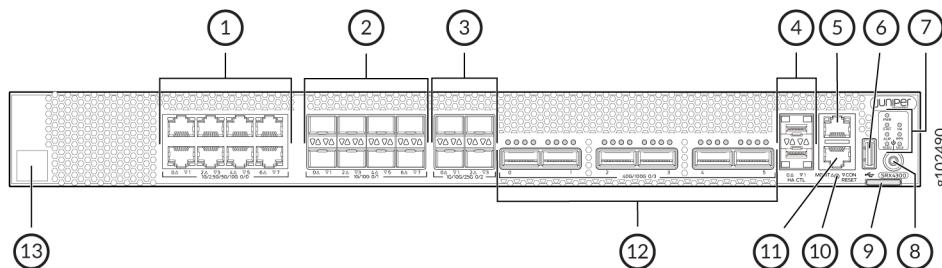
**Table 5: Chassis Electrical Specifications for SRX4300**

Item	Specification
AC input voltage	Operating range: 100-127 VAC / 200-240 VAC
AC input line frequency	50/60 Hz
AC input current rating	10.52 A at 100-127 VAC 5.26 A at 200-240 VAC
DC input voltage	-40 VDC through -72 VDC
DC input current rating	24 A maximum

## Front Panel of an SRX4300

[Figure 1 on page 12](#) shows the front panel of an SRX4300.

**Figure 1: Front Panel Components of SRX4300**



[Table 6 on page 13](#) lists and describes the front panel components of the firewall.

**Table 6: Components on the Front Panel of the SRX4300**

Callout	Component (Label on the Chassis)	Description
1	Ethernet ports	Eight 1/2.5/5/10-Gigabit Ethernet MACsec ports for network traffic.
2	SFP+ ports	Eight 1/10-Gigabit Ethernet SFP+ MACsec ports for network traffic.
3	SFP28 ports	Four 1/10/25-Gigabit Ethernet SFP28 MACsec ports for network traffic.
4	Chassis cluster ports ( <b>HA</b> )	Two 1-Gigabit Ethernet SFP chassis cluster control <b>CTL</b> ports with MACsec support
5	Management port ( <b>MGMT</b> )	1-Gigabit Ethernet RJ-45 port
6	USB port	One USB 3.0 Type A port that accepts a USB storage device.
7	Chassis LEDs	Indicate component and system status and troubleshooting information at a glance.
8	Power button	Power button
9	Pull tab	Contains the CLEI code and serial number of the device.
10	RESET	Reset button. To reset the system, press and hold the <b>RESET</b> button for around 250 ms.
11	Console port ( <b>CON</b> )	You can connect a laptop to the SRX4300 for CLI management. The port uses an RJ-45 serial connection and supports the RS-232 (EIA-232) standard.
12	QSFP28 ports	Six 4x10/4x25/2x50/40/100-Gigabit Ethernet QSFP28 MACsec ports for network traffic.

**Table 6: Components on the Front Panel of the SRX4300 (Continued)**

Callout	Component (Label on the Chassis)	Description
13	Claim code	You can use the QR code to claim and onboard your device to Juniper Security Director.

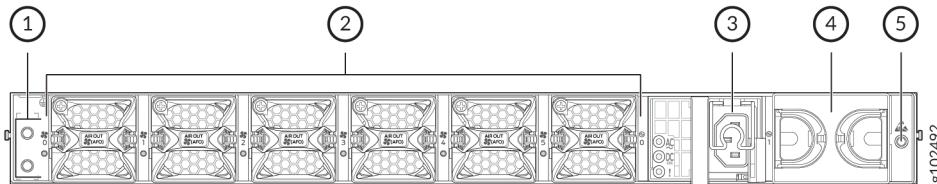


**NOTE:** The chassis cluster (HA) ports only support 1 GbE SFP fiber optics. Do not use copper optics with the HA ports,

See the [Hardware Compatibility Tool](#) for a list of all supported optics for the SRX4300.

## Rear Panel of an SRX4300

[Figure 2 on page 14](#) shows the rear panel of the AC variant of the SRX4300.

**Figure 2: Rear Panel Components of the AC Variant of SRX4300**

[Table 7 on page 14](#) lists and describes the rear panel components of the AC variant of the SRX4300.

**Table 7: Components on the Rear Panel of the AC Variant of the SRX4300 Firewall**

Callout	Component	Description
1	Grounding point	Grounding point

**Table 7: Components on the Rear Panel of the AC Variant of the SRX4300 Firewall (Continued)**

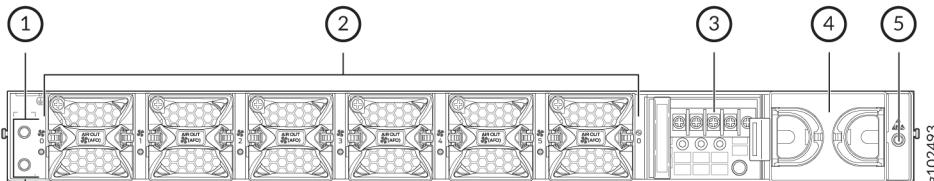
Callout	Component	Description
2	Fan modules	Six airflow out (AFO) fan modules (5+1 redundancy). Five fan modules are required for proper airflow across the chassis internal components. The sixth fan module provides redundancy.
3	PSU (Power Supply Unit)	A 850W AC PSU is provided with the SRX4300.
4	Empty PSU slot	Blank slot to install an additional PSU (1+1 redundancy).
5	ESD	ESD socket



**NOTE:** We ship the SRX4300 with only one power supply. You can order the second power supply separately, if required.

You must not mix AC and DC power supplies in the same chassis.

[Figure 3 on page 15](#) shows the rear panel of the DC variant of the SRX4300.

**Figure 3: Rear Panel Components of the DC Variant of SRX4300**

[Table 8 on page 15](#) lists and describes the rear panel components of the DC variant of the SRX4300.

**Table 8: Components on the Rear Panel of the DC Variant of the SRX4300 Firewall**

Callout	Component	Description
1	Grounding point	Grounding point

**Table 8: Components on the Rear Panel of the DC Variant of the SRX4300 Firewall (Continued)**

Callout	Component	Description
2	Fan modules	Six airflow out (AFO) fan modules (5+1 redundancy). Five fan modules are required for proper airflow across the chassis internal components. The sixth fan module provides redundancy.
3	PSU (Power Supply Unit)	A 850W DC PSU is provided with the SRX4300.
4	Empty PSU slot	Blank slot to install an additional PSU (1+1 redundancy).
5	ESD	ESD socket



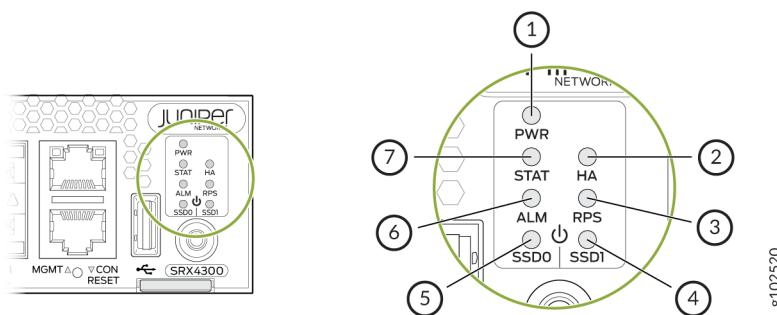
**NOTE:** We ship the SRX4300 with only one power supply. You can order the second power supply separately, if required.

You must not mix AC and DC power supplies in the same chassis.

## Chassis Status LEDs

Figure 4 on page 16 shows the LEDs on the front panel.

**Figure 4: SRX4300 Front Panel Status LEDs**



**Table 9: SRX4300 Front Panel LEDs**

Callout	LED	Description
1	PWR	<ul style="list-style-type: none"> <li>• Solid green—The device is powered on.</li> <li>• Blinking green—The device is powered on. The device is in the bootup phase before OS initialization.</li> <li>• Red—The power supply has failed and must be replaced.</li> <li>• Off—The device is powered off.</li> </ul>
2	HA	<ul style="list-style-type: none"> <li>• Solid green—All HA links are available.</li> <li>• Solid amber—Some HA links are unavailable.</li> <li>• Red—Device is inoperable due to a monitor failure.</li> <li>• Off—HA is disabled.</li> </ul>
3	RPS	<ul style="list-style-type: none"> <li>• Solid green—The redundant power supply (RPS) is operating normally.</li> <li>• Solid red—The RPS is not operating normally.</li> <li>• Off—The RPS is not present on the device.</li> </ul>

**Table 9: SRX4300 Front Panel LEDs (*Continued*)**

Callout	LED	Description
4 and 5	SSD0 and SSD1	<ul style="list-style-type: none"> <li>• Blinking green—The device is transferring data to or from the SSD storage device.</li> <li>• Solid red—Indicates an SSD storage device failure.</li> <li>• Off—SSD storage device is not present on the device.</li> </ul>
6	ALM	<ul style="list-style-type: none"> <li>• Solid red—Critical alarm</li> <li>• Solid amber—Non-critical alarm</li> <li>• Off—No alarms</li> </ul>
7	STAT	<ul style="list-style-type: none"> <li>• Solid green—The device is operating normally.</li> <li>• Solid red—Indicates a hardware component failure.</li> <li>• Off—The device is not receiving power.</li> </ul>

## Management Port LEDs

[Figure 5 on page 19](#) shows the LEDs for the management ports.

Figure 5: SRX4300 Management Port LEDs

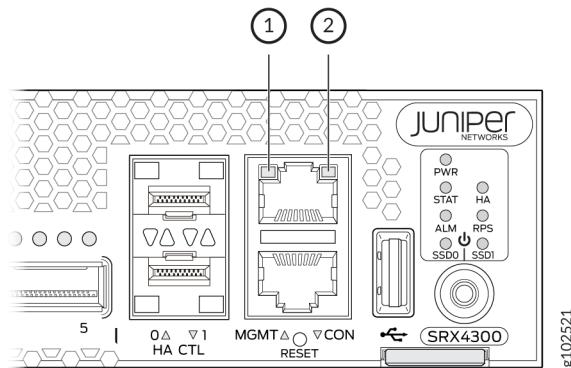


Table 10: Management Port LEDs

Callout	LED	Description
1	Link (LED on the left)	<ul style="list-style-type: none"> <li>• Solid green—A link is established.</li> <li>• Off—No link established.</li> </ul>
2	Activity (LED on the right)	<ul style="list-style-type: none"> <li>• Blinking green—There is activity on the link.</li> <li>• Off—There is no link activity.</li> </ul>

## Network Port LEDs

The BASE-T, SFP+, and SFP28 ports have two LEDs to indicate the link activity and status. [Figure 6 on page 20](#) shows the location of the LEDs on the BASE-T ports and [Table 11 on page 20](#) describes the LED behaviour.

Figure 6: LEDs on the Network Ports

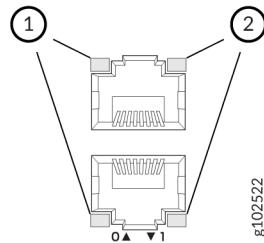


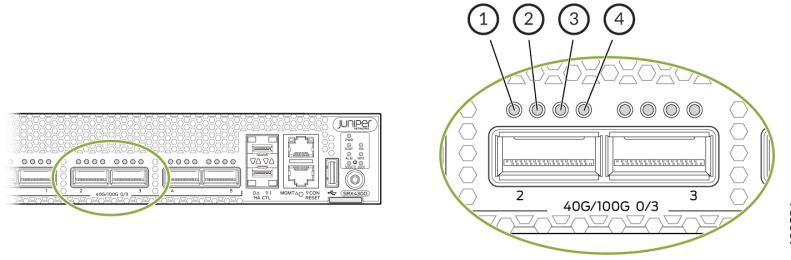
Table 11: LEDs on the RJ-45, SFP, SFP+, and SFP28 Network Ports

Callout 1	Callout 2	Description (for RJ-45, SFP, SFP+, and SFP28 ports)
Status LED (Left LED)	Link and Activity LED (Right LED)	
Off	Off	Default (power on with or without Transceiver)
Solid Green	Solid Green	25 Gbps link is up but there is no traffic on the port.
	Blinking Green	25 Gbps link is up and there is traffic on the port.
Blinking Green	Solid Green	10 Gbps link is up but there is no traffic on the port.
	Blinking Green	10 Gbps link is up and there is traffic on the port.
Off	Solid Green	1 Gbps link is up but there is no traffic on the port.
	Blinking Green	1 Gbps link is up and there is traffic on the port.

**Table 11: LEDs on the RJ-45, SFP, SFP+, and SFP28 Network Ports (Continued)**

Callout 1	Callout 2	Description (for RJ-45, SFP, SFP+, and SFP28 ports)
Status LED (Left LED)	Link and Activity LED (Right LED)	
Off	Off	<p>This indicates one of the following:</p> <ul style="list-style-type: none"> <li>• The link is down or a fault has occurred.</li> <li>• The port has been disabled by the administrator.</li> </ul>

The QSFP28 ports have four LEDs to indicate the link activity and status. [Figure 7 on page 21](#) shows the location of the LEDs on the QSFP28 ports and [Table 12 on page 21](#) describes the LED behaviour.

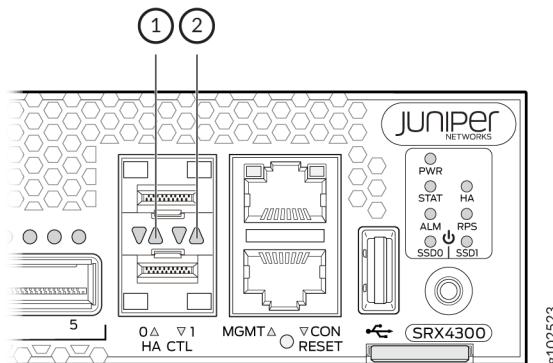
**Figure 7: LEDs on the QSFP28 Ports****Table 12: LEDs on the QSFP28 Network Ports**

LED	State	Description
1 (non-channelized)	Solid Green	100 Gbps or 40 Gbps link is up but there is no traffic on the port.
	Blinking Green	100 Gbps or 40 Gbps link is up and there is traffic on the port.
1-4 (channelized)	Solid Green	4x25 Gbps or 4x10 Gbps link is up but there is no traffic on the port.

**Table 12: LEDs on the QSFP28 Network Ports (*Continued*)**

LED	State	Description
	Blinking Green	4x25 Gbps or 4x10 Gbps link is up and there is traffic on the port.
1-4	Off	This indicates one of the following: <ul style="list-style-type: none"> <li>• The link is down or a fault has occurred.</li> <li>• The port has been disabled by the administrator.</li> </ul>

[Figure 8 on page 22](#) shows the location of the LEDs on the HA ports and [Table 13 on page 22](#) describes the LEDs.

**Figure 8: LEDs on the HA Ports****Table 13: HA Port LEDs**

Callout	LED	Description
1	Link (LED on the left)	<ul style="list-style-type: none"> <li>• Blinking green—A link is established.</li> <li>• Off—There is no link established.</li> </ul>

**Table 13: HA Port LEDs (Continued)**

Callout	LED	Description
2	Activity (LED on the right)	<ul style="list-style-type: none"> <li>Blinking green—There is activity on the link.</li> <li>Off—There is no link activity.</li> </ul>

## SRX4300 Ports and Interfaces

### IN THIS SECTION

- [Interface Naming on the SRX4300 | 23](#)
- [Network Ports on the SRX4300 | 24](#)
- [Interfaces on the SRX4300 | 25](#)

## Interface Naming on the SRX4300

The ports on the SRX4300 have interfaces associated with them in Junos OS. These interfaces follow the below naming convention:

*type-fpc/pic/port:channel*

- type—This refers to the media type of the interface. For some interfaces, the media type depends on the transceiver plugged into the physical port.
  - ge—1 Gigabit Ethernet (GbE) interface
  - xe—10 GbE interface
  - mge—1/2.5/5/10 GbE Multirate Gigabit Ethernet interface
  - et—25/40/100 GbE interface
- fpc—Flexible PIC Concentrator. On the SRX4300, FPC number is 0.

- **pic**—Physical Interface Card. On the SRX4300:
  - PIC 0 consists of eight multirate RJ-45 ports.
  - PIC 1 consists of eight SFP+ ports.
  - PIC 2 consists of four SFP28 ports.
  - PIC 3 consists of six QSFP28 ports.
- **port**—You can check the port number from the front panel of the SRX4300.
- **channel**—This is only applicable to channelized interfaces. For all other interfaces, this option is absent.

## Network Ports on the SRX4300

Table 14: SRX4300 Network Ports

Form Factor	Port Component	Port Count	Speeds Supported	FPC	PIC	Junos Interfaces
RJ-45	Multirate Gigabit Ethernet	8	1/2.5/5/10 G	0	0	mge-0/0/0 to mge-0/0/7
SFP+	SFP/SFP+	8	1/10 G	0	1	1G: ge-0/1/0 to ge-0/1/7 10G: xe-0/1/0 to xe-0/1/7
SFP28	SFP/SFP+/SFP28	4	1/10/25 G	0	2	1G: ge-0/2/0 to ge-0/2/3 10G: xe-0/2/0 to xe-0/2/3 25G: et-0/2/0 to et-0/2/3

**Table 14: SRX4300 Network Ports (*Continued*)**

Form Factor	Port Component	Port Count	Speeds Supported	FPC	PIC	Junos Interfaces
QSFP28	QSFP/ QSFP28	6	4x10/4x25/2 x50/40/100 G	0	3	et-0/3/0 to et-0/3/5



**NOTE:** The BASE-T PIC 0 ports support autonegotiation. The SFP+ PIC 1 ports support 1 GbE SFP-T but do not support autonegotiation. The SFP28 PIC 2 ports and QSFP28 PIC 3 ports do not support SFP-T or autonegotiation.

See the [Hardware Compatibility Tool](#) for a list of all supported optics for the SRX4300.

## Interfaces on the SRX4300

Each network port on the SRX4300 has a unique interface on Junos OS associated with it.

The interfaces for all PIC 0 ports are already created. The interfaces for PIC 1, PIC 2, and PIC 3 ports are created when you insert a transceiver into the respective port. PIC 1 and PIC 3 interfaces automatically determine the interface speed from the type of transceiver plugged into the port. PIC 2 interfaces are automatically created when using a 25G transceiver. When using a 10G/1G transceiver, you need to manually configure the interface speed using the CLI.

The example below shows the actual hardware or transceivers plugged into a device and how Junos OS creates the corresponding interfaces. The output has been truncated to only show the relevant sections.

```
host@srx4300> show chassis hardware
Hardware inventory:
Item          Version  Part number  Serial number  Description
Chassis
Midplane      REV 04  650-155787  FQ3523AN0014  SRX4300
Routing Engine 0  BUILTIN      BUILTIN        SRX Routing Engine
CB 0          BUILTIN      BUILTIN        Control Board
FPC 0          BUILTIN      BUILTIN        SRX4300 FPC
PIC 0          BUILTIN      BUILTIN        8x10G-T
PIC 1          BUILTIN      BUILTIN        8xSFP+
Xcvr 0         REV 01  740-021308  A3DABVC      SFP+-10G-SR
```

Xcvr 1	REV 01	740-021308	A3DACK6	SFP+-10G-SR
Xcvr 2	REV 01	740-021308	A3DACU9	SFP+-10G-SR
PIC 2		BUILTIN	BUILTIN	4xSFP28
Xcvr 0	REV 01	740-021308	N6AE85M	SFP+-10G-SR
Xcvr 1	REV 01	740-031980	CG15KN0UW	SFP+-10G-SR
Xcvr 2	REV 01	740-031851	PKS4PXX	SFP-SX
Xcvr 3	REV 01	740-011782	P9M0V8F	SFP-SX
PIC 3		BUILTIN	BUILTIN	
6xQSFP28				Fan Tray 5, Front to Back Airflow - AF0

```
host@srx4300> show interfaces terse
```

Interface	Admin	Link	Proto	Local	Remote
mge-0/0/0	up	up			
mge-0/0/1	up	up			
mge-0/0/1.0	up	up			
mge-0/0/2	up	down			
mge-0/0/2.0	up	down			
mge-0/0/3	up	up			
mge-0/0/4	up	up			
mge-0/0/5	up	down			
mge-0/0/6	up	down			
mge-0/0/7	up	down			
xe-0/1/0	up	up			
xe-0/1/1	up	up			
xe-0/1/2	up	up			

In this example:

- The interfaces for PIC 0 ports are automatically created (mge-0/0/0 to mge-0/0/7).
- PIC 1 has three 10G transceivers plugged into ports 0 through 2. Junos OS creates corresponding 10G interfaces (xe-0/1/0 to xe-0/1/2).
- PIC 2 has two 10G and two 1G transceivers plugged into it. Without explicit configuration, Junos OS does not identify these interface speeds and so does not create the PIC 2 interfaces.
- There are no transceivers plugged into PIC 3.

# Cooling System and Airflow in SRX4300 Firewalls

## IN THIS SECTION

- [Fan Modules | 27](#)
- [SRX4300 Fan Module LEDs | 28](#)

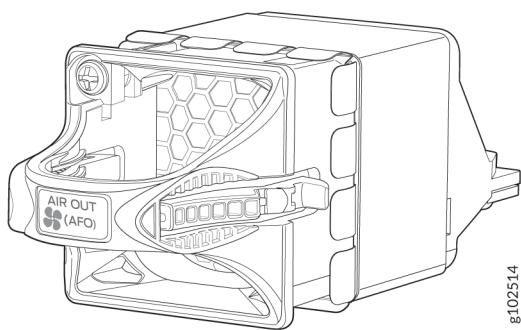
The cooling system in SRX4300 firewalls consists of six fan modules. In addition to the fans, an internal fan in each PSU also cools the device components.

## Fan Modules

The fan modules in SRX4300 firewalls are hot-insertable and hot-removable field-replaceable units (FRUs). You can install the fan modules in the fan module slots on the rear of the device.

The following figure shows the fan module.

**Figure 9: SRX4300 Fan Module**

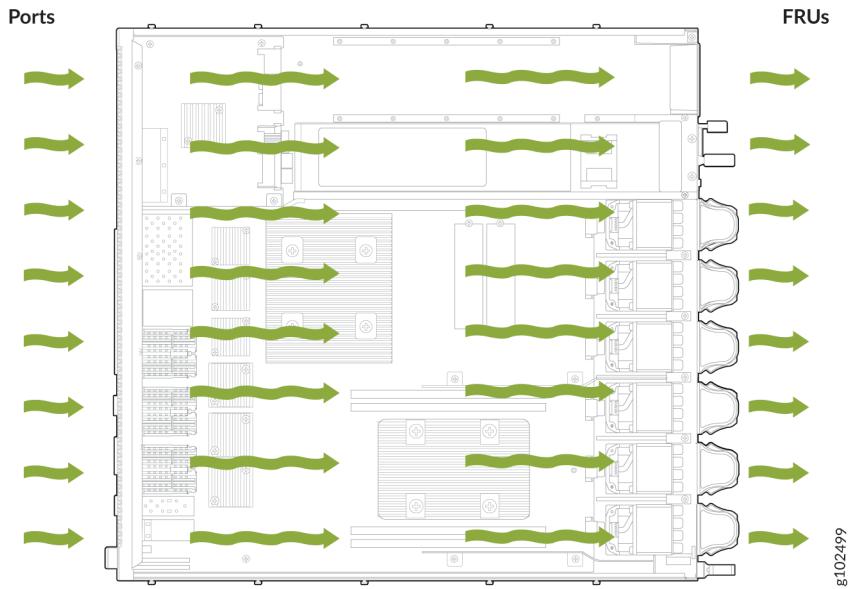


**Table 15: Physical Specifications of the SRX4300 Fan Modules**

Height	Width	Depth	Weight
1.61 in. (4.1 cm)	1.61 in. (4.1 cm)	4.41 in. (11.2 cm)	0.16 lb (74 g)

The SRX4300 firewalls provide front-to-back airflow. The fan modules pull the air toward them through the front of the chassis, and exhaust it out through the back of the chassis.

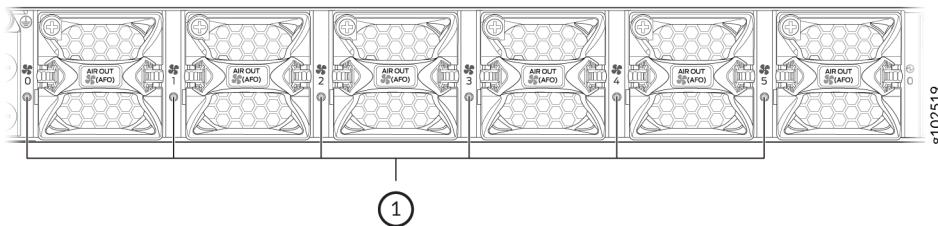
**Figure 10: Airflow through the SRX4300 Chassis**



## SRX4300 Fan Module LEDs

You can examine the LEDs next to each fan module to check the status of the fans.

**Figure 11: Fan Module LEDs**



**Table 16: Fan Module LEDs**

LED Color	LED State	Description
Green	On steadily	The fan module is operating normally. The system has verified that the module is engaged, that the airflow is in the correct direction, and that the fan is operating correctly.
Red	On steadily	The system has detected an error in the fan module. Replace the module immediately. Either the fan has failed, or it is seated incorrectly. To maintain proper airflow through the chassis, leave the fan module installed in the chassis until you are ready to replace it.

## SRX4300 Power System

### IN THIS SECTION

- [AC Power Supply for SRX4300 Firewalls | 30](#)
- [Supported AC Power Cords | 31](#)
- [DC Power Supply for SRX4300 Firewalls | 32](#)
- [PSU LEDs on SRX4300 Firewalls | 34](#)

The SRX4300 is powered by two power supplies for 1 + 1 redundancy. The SRX4300 has hot-removable and hot-insertable power supply units (PSUs). If one PSU fails, you can replace it without powering off or

disrupting the device function. The second PSU balances the electrical load without interruption. A fan in each power supply provides cooling.



**NOTE:** We ship the SRX4300 with only one PSU. You can order the second PSU separately if required.

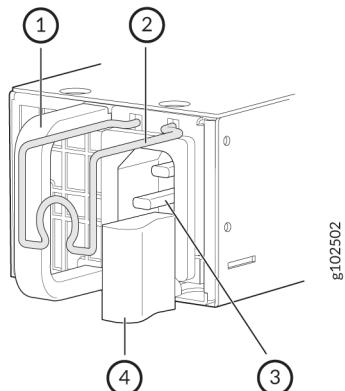


**CAUTION:** You must not mix AC and DC power supplies in the same chassis.

## AC Power Supply for SRX4300 Firewalls

The following figure shows the AC PSU.

**Figure 12: AC Power Supply Unit for SRX4300**



**Table 17: Physical Specifications of the SRX4300 AC PSU**

Height	Width	Depth	Weight
1.61 in. (4.1 cm)	2.17 in. (5.5 cm)	14.17 in. (36 cm) (including handle)	2.23 lb (1.01 kg)

[Table 18 on page 31](#) describes the AC power specifications for SRX4300.

**Table 18: AC PSU ratings for SRX4300**

Item	Specification
AC input voltage	Operating range: 100-127 VAC / 200-240 VAC
AC input line frequency	50/60 Hz
AC input current rating	10.52 A at 100-127 VAC 5.26 A at 200-240 VAC
Maximum power output	850 W

**Table 19: AC Power Consumption for SRX4300**

Item	Specification
Maximum power consumption	393 W
Typical power consumption	327 W

You must use a dedicated external circuit breaker for each power supply. We recommend that use a 16 A (250 VAC) minimum, or as permitted by the local code.

## Supported AC Power Cords



**WARNING:** The AC power cord for the firewall is intended for use with the firewall only and not for any other use.



**NOTE:** In North America, AC power cords must not exceed a length of 4.5 m (approximately 14.75 ft). This length complies with National Electrical code (NEC) Section 400-8 (NFPA 75, 5-2.2) and 210-52, and Canadian Electrical Code (CEC) Section 4-010(3).

Table 20 on page 32 provides power cord specifications, and Figure 13 on page 32 depicts the plug on the AC power cord provided for each country or region.

**Table 20: AC Power Cord Specifications**

Country	Electrical Specification	Plug Standards
Australia	250 VAC, 10 A, 50 Hz	AS/NZ 3112-1993
China	250 VAC, 10 A, 50 Hz	GB2099.1 1996 and GB 1002 1996 (CH1-10P)
Europe (except Italy and United Kingdom)	250 VAC, 10 A, 50 Hz	CEE (7) VII
Italy	250 VAC, 10 A, 50 Hz	CEI 23-16/VII
Japan	125 VAC, 12 A, 50 or 60 Hz	JIS 8303
North America	125 VAC, 13 A/15 A, 60 Hz	NEMA 5-15
United Kingdom	250 VAC, 10 A, 50 Hz	BS 1363A

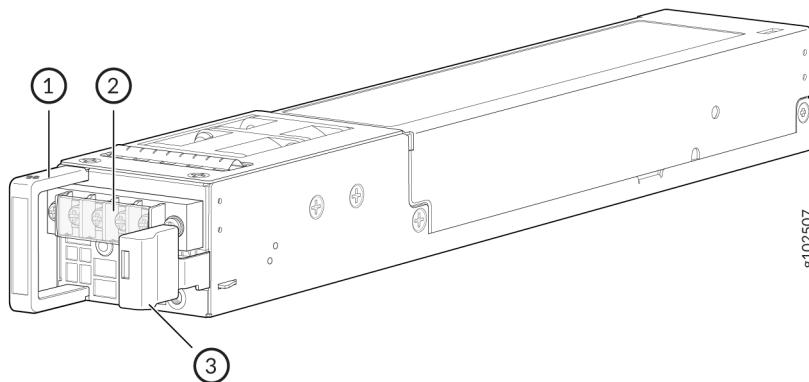
**Figure 13: AC Plug Types**

**NOTE:** Power cords and cables must not block access to firewall components or drape where people might trip on the cables.

## DC Power Supply for SRX4300 Firewalls

The following figure shows the DC PSU.

**Figure 14: DC Power Supply PSU for SRX4300**



**Table 21: Physical Specifications of the SRX4300 DC PSU**

Height	Width	Depth (including handle)	Weight
1.61 in. (4.1 cm)	2.17 in. (5.5 cm)	14.17 in. (36 cm)	2.16 lb (0.98 kg)

[Table 22 on page 33](#) describes the DC power specifications for SRX4300.

**Table 22: DC PSU ratings for SRX4300**

Item	Specification
DC Input Voltage	-40 VDC through -72 VDC
DC input current rating	24 A maximum
Maximum power output	850 W

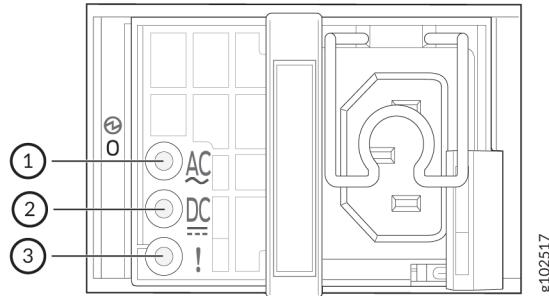
**Table 23: DC Power Consumption for SRX4300**

Item	Specification
Maximum power consumption	392 W
Typical power consumption	326 W

## PSU LEDs on SRX4300 Firewalls

[Figure 15 on page 34](#) shows the location of the LEDs on the AC PSU and [Table 24 on page 34](#) describes the LEDs.

**Figure 15: LEDs on the AC PSU**

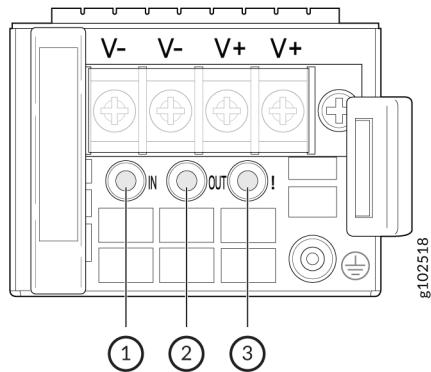


**Table 24: LEDs on the AC PSU**

Callout	LED	Color	Description
1	AC	Off	No power input.
		Green	PSU is operating normally.
2	DC	Off	No power output.
		Green	PSU is operating normally.
3	Fault	Amber	The system has detected an error in the PSU. Replace the PSU immediately. To maintain proper airflow through the chassis, leave the PSU installed in the chassis until you are ready to replace it.

[Figure 16 on page 35](#) shows the location of the LEDs on the DC PSU and [Table 25 on page 35](#) describes the LEDs.

**Figure 16: LEDs on the DC PSU**



**Table 25: LEDs on the DC PSU**

Callout	Name	Color	Description
1	Input	Off	No power input.
		Green	The PSU is operating normally.
2	Output	Off	No power output.
		Green	The PSU is operating normally.
3	Fault	Amber	The system has detected an error in the PSU. Replace the PSU immediately. To maintain proper airflow through the chassis, leave the PSU installed in the chassis until you are ready to replace it.

# 3

CHAPTER

## Site Planning, Preparation, and Specifications

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### IN THIS CHAPTER

- Site Preparation Checklist for SRX4300 | **37**
- SRX4300 Site Guidelines and Requirements | **38**
- Cable Specifications and Pinouts for SRX4300 | **45**

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# Site Preparation Checklist for SRX4300

The checklist in [Table 26 on page 37](#) summarizes the tasks you need to perform when preparing a site to install the SRX4300.

**Table 26: Site Preparation Checklist to install the SRX4300**

Item or Task	Additional Information
Environment	
Verify that environmental factors such as temperature and humidity do not exceed device tolerance levels.	<a href="#">"Environmental Requirements and Specifications for SRX4300" on page 41</a>
Power	
Measure the distance between the external power sources and the device installation site.	
Locate sites for connection of system grounding.	
Calculate the power consumption and requirements.	
Rack Requirements	
Verify that your rack meets the minimum requirements.	<a href="#">"Rack Requirements for SRX4300" on page 42</a>
Rack Installation	

**Table 26: Site Preparation Checklist to install the SRX4300 (Continued)**

Item or Task	Additional Information
Plan the rack location, including required space clearances.	
Secure the rack to the floor and building structure.	
Cables	
<ul style="list-style-type: none"> <li>• Acquire cables and connectors.</li> <li>• Review the maximum distance allowed for each cable. Choose the length of cable based on the distance between the hardware components being connected.</li> <li>• Plan the cable routing and management.</li> </ul>	

## SRX4300 Site Guidelines and Requirements

### IN THIS SECTION

- [General Site Installation Guidelines | 39](#)
- [Site Electrical Wiring Guidelines | 39](#)
- [Environmental Requirements and Specifications for SRX4300 | 41](#)
- [Clearance Requirements for Hardware Maintenance of SRX4300 | 41](#)

- [Rack Requirements for SRX4300 | 42](#)

## General Site Installation Guidelines

Take the following precautions to plan an acceptable operating environment for your SRX4300 and avoid prevent equipment failures caused due to environment:

- Keep the area around the chassis free from dust.
- Follow the prescribed airflow guidelines to ensure that the cooling system functions properly and that exhaust from other equipment does not blow into the intake vents of the appliance.
- Follow the ESD procedures to avoid damaging equipment. Static discharge can cause components to fail completely or intermittently over time.
- Install the device in a secure area, so that only authorized personnel can access the device.

## Site Electrical Wiring Guidelines

[Table 27 on page 40](#) describes the factors you must consider while planning the electrical wiring at your site.



**WARNING:** You must provide a properly grounded and shielded environment and use electrical surge-suppression devices.

**Table 27: Site Electrical Wiring Guidelines**

Site Wiring Factor	Guidelines
Signaling limitations	<p>If your site experiences any of the following problems, consult experts in electrical surge suppression and shielding:</p> <ul style="list-style-type: none"> <li>• Improperly installed wires cause radio frequency interference (RFI).</li> <li>• Damage from lightning strikes occurs when wires exceed recommended distances or pass between buildings.</li> <li>• Electromagnetic pulses (EMPs) caused by lightning can damage unshielded conductors and electronic devices.</li> </ul>
Radio frequency interference	<p>To reduce or eliminate RFI from your site wiring, do the following:</p> <ul style="list-style-type: none"> <li>• Use a twisted-pair cable with a good distribution of grounding conductors.</li> <li>• If you must exceed the recommended distances, use a high-quality twisted-pair cable with one ground conductor for each data signal when applicable.</li> </ul>
Electromagnetic compatibility	<p>If your site is susceptible to problems with electromagnetic compatibility (EMC), particularly from lightning or radio transmitters, seek expert advice.</p> <p>Strong sources of electromagnetic interference (EMI) may cause the following problems:</p> <ul style="list-style-type: none"> <li>• Destruction of the signal drivers and receivers in the device</li> <li>• Electrical hazards as a result of power surges conducted over the lines into the equipment</li> </ul>

## Environmental Requirements and Specifications for SRX4300

The SRX4300 must be housed in dry, clean, well-ventilated, and temperature-controlled environment. Follow these environmental guidelines:

- Ensure that the site is dust-free because dust can clog the air intake vent. This reduces the efficiency of the cooling system.
- Maintain ambient airflow for normal operation. If the airflow is blocked or restricted, or if the intake air is too warm, the appliance might overheat.

The following table lists the environmental specifications for the SRX4300:

**Table 28: Environmental Specifications for SRX4300**

Description	Value
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	Normal operation ensured in relative humidity range of 5% through 90%, non-condensing
Altitude	6000 ft.

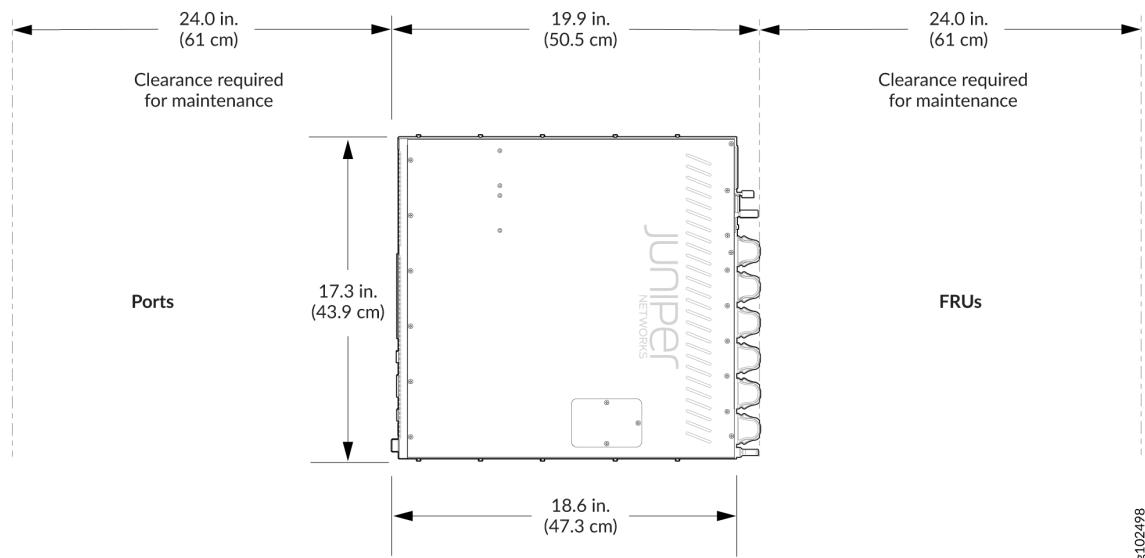
## Clearance Requirements for Hardware Maintenance of SRX4300

When planning the site for installing an SRX4300, ensure that there is sufficient space around the installed chassis.

- For the operating temperature of the SRX4300 to be optimal, the airflow around the chassis must be unrestricted.
- For service personnel to remove and to install hardware components, and to accommodate the interface and power cable bend radius, there must be adequate space at the front and rear of the appliance. Allow at least 24 in. (61 cm) of space both at the front and the rear of the appliance.

- If you are mounting the appliance in a rack with other equipment, or if you are placing it on the desktop near other equipment, ensure that the exhaust from other equipment does not blow into the intake vents of the chassis.

**Figure 17: Clearance Requirements for Hardware Maintenance of SRX4300**



## Rack Requirements for SRX4300

You can mount the SRX4300 on four-post racks. The rack mounting kit is shipped with the device. [Table 29 on page 43](#) provides the rack requirements and specifications for SRX4300.

**Table 29: Rack Requirements and Specifications**

Rack Requirement	Guidelines
Rack type	<p>Use a four-post rack with bracket holes or hole patterns spaced at 1 U increments (1.75 in. or 4.45 cm). Ensure that the rack meets the size and strength requirements to support the weight.</p> <p>A U is the standard rack unit as defined in Cabinets, Racks, Panels, and Associated Equipment (document number EIA-310-D) published by the Electronics Industry Association.</p>
Mounting bracket hole spacing	<p>Ensure that the holes in the mounting brackets are spaced at 1 U (1.75 in. or 4.45 cm) so that the device can be mounted in any rack that provides holes that are spaced at that distance.</p> <p>The front rack opening between the flanges must be 450 mm wide + 2 mm (17.75 in. + 0.08 in.).</p>

**Table 29: Rack Requirements and Specifications (*Continued*)**

Rack Requirement	Guidelines
Rack size and strength	<ul style="list-style-type: none"> <li>• Ensure that the rack complies with the standards for a 19 in. rack as defined in Cabinets, Racks, Panels, and Associated Equipment (document number EIA-310-D) published by the Electronics Industry Association.</li> <li>• Use an 800 mm rack as defined in the four-part Equipment Engineering (EE) European telecommunications standard for equipment practice (document numbers ETS 300 119-1 through 119-4) published by the European Telecommunications Standards Institute (<a href="http://www.etsi.org">http://www.etsi.org</a>).</li> <li>• The horizontal spacing between the rails in a rack compliant with this standard is usually wider than the device's mounting brackets. The mounting brackets measure 19 in. (48.26 cm) from outer edge to outer edge. Use approved wing devices to narrow the opening between the rails as required.</li> <li>• Ensure that the rack rails are spaced widely enough to accommodate the external dimensions of the device chassis. The outer edges of the front-mounting brackets extend the width to 19 in. (48.26 cm).</li> <li>• Ensure that for four-post installations, the front and rear rack rails are spaced between 23.6 in. (60 cm) and 36 in. (91.4 cm) front-to-back.</li> <li>• Ensure that the rack is strong enough to support the weight of the device. A fully-configured SRX4300 with 2 PSUs weighs about 20.5 lb (9.3 kg).</li> <li>• Ensure that the spacing of rails and adjacent racks allows for proper clearance around the device and rack.</li> </ul>

**Table 29: Rack Requirements and Specifications (Continued)**

Rack Requirement	Guidelines
Rack connection to building structure	<ul style="list-style-type: none"> <li>Secure the rack to the building structure.</li> <li>If earthquakes occur in your geographical area, secure the rack to the floor.</li> <li>Secure the rack to the ceiling brackets and to wall or floor brackets for maximum stability.</li> </ul>

## Cable Specifications and Pinouts for SRX4300

### IN THIS SECTION

- Transceiver Support for SRX4300 | [45](#)
- RJ-45 Connector Pinouts for the SRX4300 Firewall Management Port | [46](#)
- RJ-45 Connector Pinouts for the SRX4300 Firewall Console Port | [47](#)

## Transceiver Support for SRX4300

Use the Hardware Compatibility Tool to find information about the pluggable transceivers and supported connector types of your Juniper Networks device. The tool also documents the optical and cable characteristics, where applicable, for each transceiver. You can search for transceivers by product and the tool displays all the transceivers supported on that device. You can also search by category, interface speed, or type. The list of supported transceivers for the SRX4300 is located at <https://apps.juniper.net/hct/product/>.



**CAUTION:** If you face a problem running a Juniper Networks device that uses a third party optic or cable, the Juniper Networks Technical Assistance Center (JTAC) can help you diagnose the source of the problem. Your JTAC engineer might recommend that you

check the third party optic or cable and potentially replace it with an equivalent Juniper Networks optic or cable that is qualified for the device.



**CAUTION:** To maintain agency approvals, use only a properly constructed, shielded cable.

## RJ-45 Connector Pinouts for the SRX4300 Firewall Management Port

The port on the front panel labeled MGMT is a 10/100/1000 Mbps Ethernet RJ-45 receptacle that accepts an Ethernet cable for connecting the services gateway to a management LAN (or other device that supports out-of-band management). [Table 30 on page 46](#) describes the RJ-45 connector pinouts for the Ethernet port.

**Table 30: RJ-45 Connector Pinouts for SRX4300 Firewall Management Port**

Pin	Signal
1	TX+
2	TX-
3	RX+
4	Termination network
5	Termination network
6	RX-
7	Termination network
8	Termination network

## RJ-45 Connector Pinouts for the SRX4300 Firewall Console Port

The port on the front panel labeled CON is an asynchronous serial interface that accepts an RJ-45 connector. [Table 31 on page 47](#) describes the RJ-45 connector pinouts for the console port.

**Table 31: RJ-45 Connector Pinouts for the SRX4300 Firewall Console Port**

Pin	Signal	Description
1	RTS	Request to Send
2	DTR	Data Terminal Ready
3	TXD	Transmit Data
4	Ground	Signal Ground
5	Ground	Signal Ground
6	RXD	Receive Data
7	DSR/DCD	Data Set Ready
8	CTS	Clear to Send

# 4

CHAPTER

## Initial Installation and Configuration

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### IN THIS CHAPTER

- SRX4300 Firewall Installation Overview | [49](#)
- Unpack the SRX4300 | [49](#)
- Install the SRX4300 in a Rack | [51](#)
- Connect SRX4300 to Power | [62](#)
- Connect SRX4300 to External Devices | [71](#)
- Register Products—Mandatory to Validate SLAs | [73](#)
- Configure Junos OS on the SRX4300 | [74](#)

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# SRX4300 Firewall Installation Overview

To install and configure your device:

1. Follow instructions in ["Unpack the SRX4300" on page 49](#).
2. Install the firewall as described in ["Install the SRX4300 in a Rack" on page 51](#).
3. Connect cables to external devices as described in ["Connect SRX4300 to External Devices" on page 71](#).
4. Connect the grounding cable and power supplies as described in ["Connect SRX4300 to Power" on page 62](#). Power on the device.
5. Perform initial configuration by following the instructions in ["Configure Junos OS on the SRX4300" on page 74](#).

## RELATED DOCUMENTATION

[SRX4300 Site Guidelines and Requirements | 38](#)

## Unpack the SRX4300

### SUMMARY

Unpack the appliance using the recommended tools and following the recommended procedure.

### IN THIS SECTION

- [Tools and Parts Required to Unpack the SRX4300 Appliance | 49](#)
- [Unpack an SRX4300 | 50](#)
- [Verify Parts Received with the SRX4300 | 50](#)

### Tools and Parts Required to Unpack the SRX4300 Appliance

To unpack the appliance and prepare for installation, you need the following tools:

- Phillips (+) screwdriver, number 2
- A box cutter or packing knife to slice open the tape that seals the boxes

## Unpack an SRX4300

We ship the SRX4300 in a cardboard carton and secure it with foam packing material.



**NOTE:** The SRX4300 has maximum protection inside the cardboard carton. Do not unpack it until you are ready to begin installation.

To unpack the SRX4300:

1. Move the cardboard carton to a staging area as close to the installation site as possible. Make sure that you have enough room to remove the components from the chassis.
2. Position the cardboard carton with the arrows pointing up.
3. Carefully open the top of the cardboard carton.
4. Remove the foam covering the top of the SRX4300.
5. Verify the parts received against the list in [Table 32 on page 51](#).
6. Store the brackets and bolts inside the accessory box.
7. Save the shipping carton and packing materials in case you need to move or ship the appliance at a later time.

## Verify Parts Received with the SRX4300

The shipment includes a packing list. Check the parts you receive in the shipping carton against the items on the packing list. We ship the parts as per the configuration you order.

If any part on the packing list is missing, contact your customer service representative or contact Juniper customer care from within the U.S. or Canada by telephone at 1-888-314-5822. For international-dial or direct-dial options in countries without toll-free numbers, see <https://www.juniper.net/support/requesting-support.html>.

**Table 32: Parts List for the SRX4300**

Component	Quality
SRX4300 Chassis Part number: SRX4300-CHAS	1
Power supply unit	1 AC or 1 DC
Fan	6
AC power cord that is appropriate for your geographical location	1 (only for AC models)
Rack mount kit	1
Documentation Roadmap	1



**NOTE:** We ship the SRX4300 with only one power supply unit (PSU). You can order the second power supply separately, if required.

## Install the SRX4300 in a Rack

### SUMMARY

Mount the SRX4300 on a rack by following the recommended procedures that are appropriate for your site.

### IN THIS SECTION

- [Mount your Device by Using the JNP-4P-TL-1RU-RMK Rack Mount Kit on a Square Hole 4-Post Rack | 52](#)
- [Mount your Device by Using the JNP-4P-TL-1RU-RMK Rack Mount Kit on a Threaded-Hole 4-Post Rack | 56](#)

- Mount your Device by Using the SRX-2PST-TLESS-RMK Rack Mount Kit on a 2-Post Rack | 60

You can mount the SRX4300 on a four-post rack or in a cabinet. Use the toolless rack mount kit shipped with the device.

Complete these prerequisites before you mount the device:

- Prepare the site for installation as described in ["SRX4300 Site Guidelines and Requirements" on page 38](#).
- Be sure the site has adequate clearance for both airflow and hardware maintenance, as described in ["SRX4300 Site Guidelines and Requirements" on page 38](#).
- Unpack the device as described in ["Unpack the SRX4300" on page 49](#).



**NOTE:** Ensure that you support the rear of the chassis throughout the process of mounting the appliance on the rack.



**CAUTION:** A qualified technician must verify that the rack or cabinet is strong enough to support the device's weight before mounting the device. Have the technician verify also that the rack or cabinet has adequate support at the installation site.



**CAUTION:** If you are installing more than one device on a rack or in a cabinet, install the first device at the bottom of the rack.

## Mount your Device by Using the JNP-4P-TL-1RU-RMK Rack Mount Kit on a Square Hole 4-Post Rack

Ensure that you have the following tools and parts available:

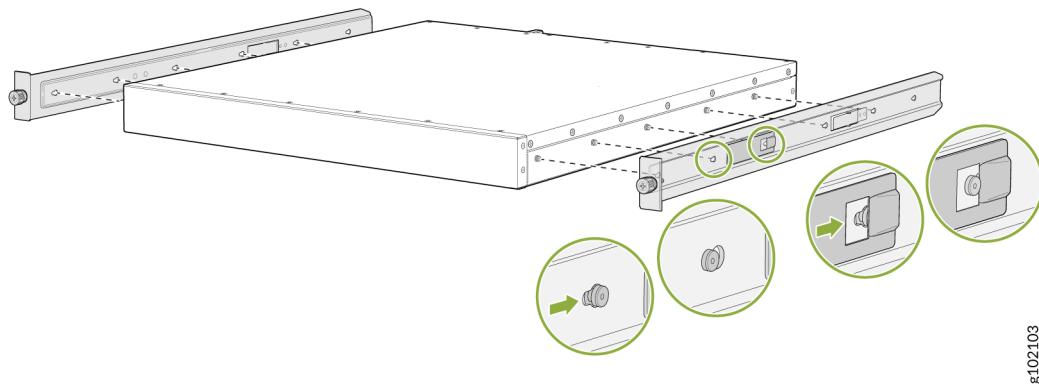
- An ESD grounding strap—not provided.
- A pair of side mounting brackets that attach to the chassis—provided with the rack mount kit.

- A pair of front and rear mounting rails that attach to the rack posts—provided with the rack mount kit.

To mount the device on a four-post rack:

1. Review the [General Safety Guidelines and Warnings](#).
2. Wrap and fasten one end of the electrostatic discharge (ESD) cable grounding strap around your bare wrist, and connect the other end to a site ESD point.
3. To attach the side mounting brackets to the chassis, align the keyholes on the mounting brackets over the shoulder screws on the chassis. Slide the mounting brackets toward the rear of the chassis so that the shoulder screws get locked in place.

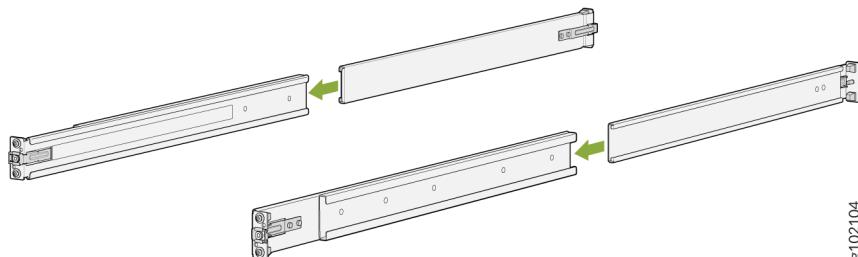
**Figure 18: Attach the Side Mounting Brackets**



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4. Assemble the mounting rails by sliding the rear mounting rails into the front rails.

**Figure 19: Assemble the Mounting Rails**

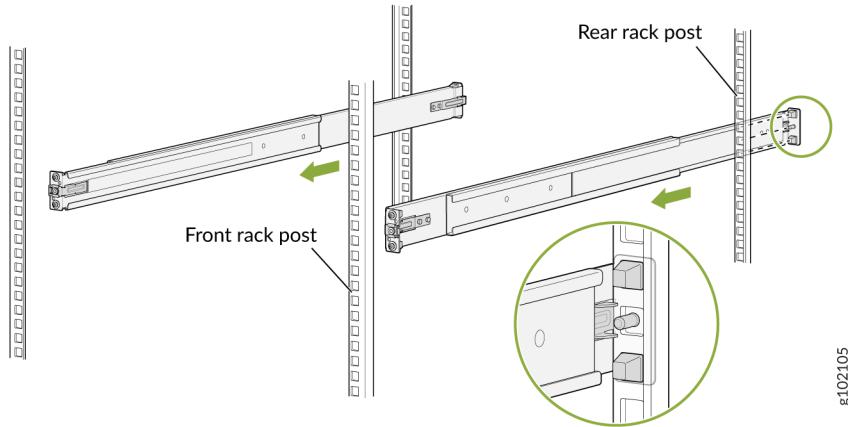


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5. Install the mounting rails on the rack:

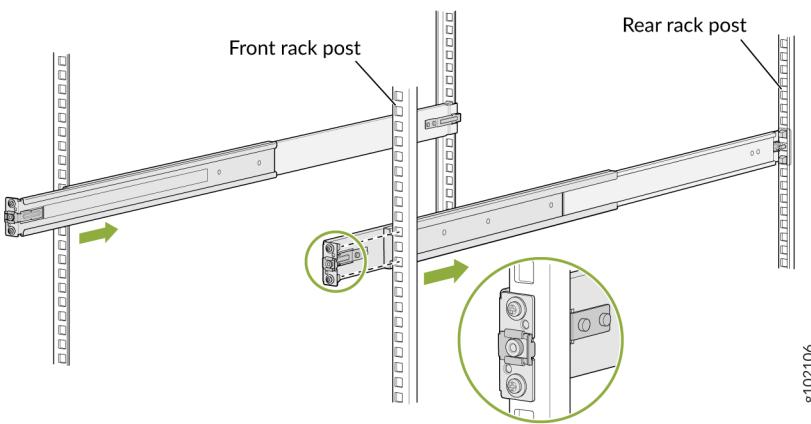
- a. Align the guide blocks of the rear mounting rails with the rear-post holes. Pull the rear mounting rails toward the front of the rack to lock the rails in place. You will hear a distinct click sound when the latch locks into the corresponding rack holes.

**Figure 20: Install the Rear Mounting Rails**



- b. Align the guide blocks of the front mounting rails with the front-post holes. Push the front mounting rails toward the rear of the rack to lock the rails in place. You will hear a distinct click sound when the latch locks into the corresponding rack holes.

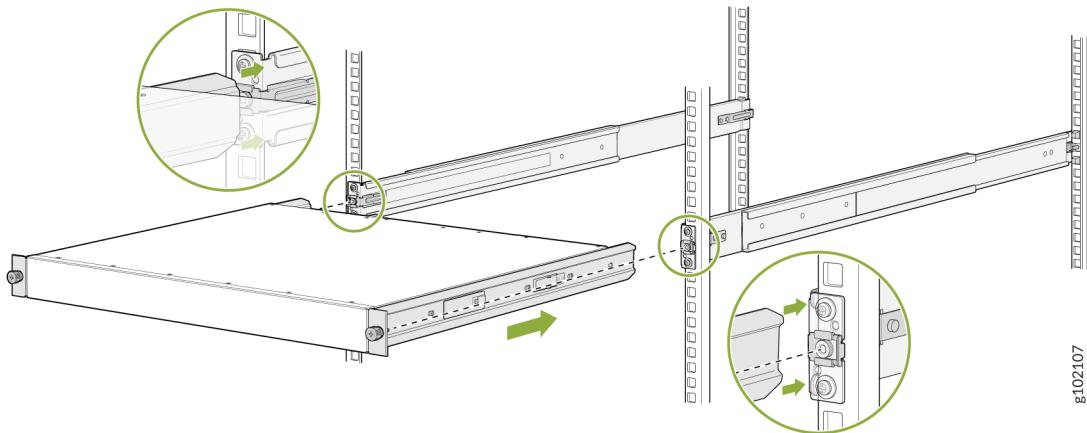
**Figure 21: Install the Front Mounting Rails**



- c. Visually ensure that the front and rear latches are locked into place on the mounting rails. The mounting rails should be securely installed on the rack.

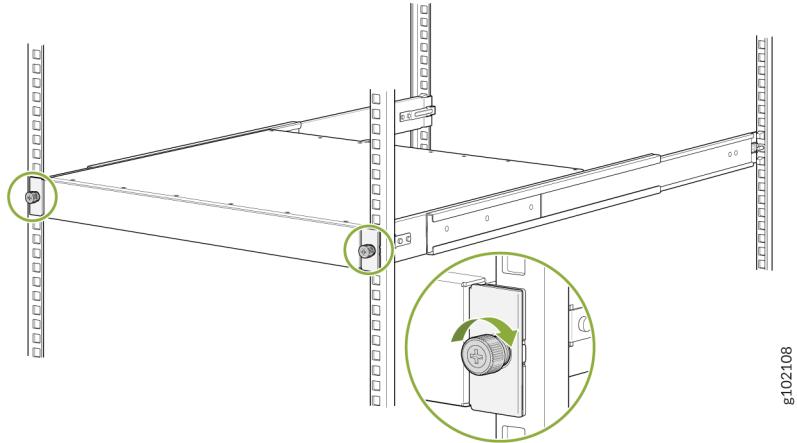
6. Lift the device and position it in the rack, aligning the side mounting brackets with the mounting rails. Slide the device into the channels of the rack mounting rails.

**Figure 22: Slide the Device into the Rack**



7. Tighten the two thumbscrews to secure the device.

**Figure 23: Tighten the Thumbscrews**



## Mount your Device by Using the JNP-4P-TL-1RU-RMK Rack Mount Kit on a Threaded-Hole 4-Post Rack

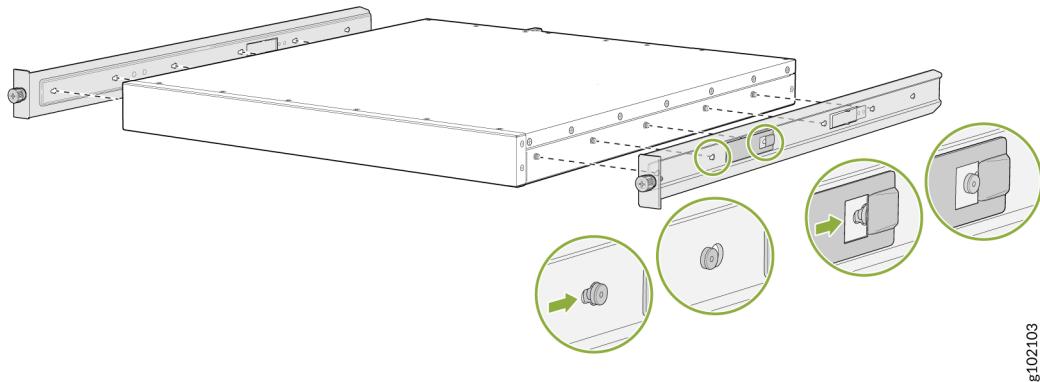
Ensure that you have the following tools and parts available:

- An ESD grounding strap—not provided.
- A Phillips (+) screwdriver, number 2—not provided.
- Eight screws to attach the mounting rails to the rack posts—not provided.
- A pair of side mounting brackets that attach to the chassis—provided with the rack mount kit.
- A pair of mounting front and rear rails that attach to the rack posts—provided with the rack mount kit.

To mount the device on a four-post rack with threaded holes:

1. Review the [General Safety Guidelines and Warnings](#).
2. Wrap and fasten one end of the electrostatic discharge (ESD) cable grounding strap around your bare wrist, and connect the other end to a site ESD point.
3. To attach the side mounting brackets to the chassis, align the keyholes on the mounting brackets over the shoulder screws on the chassis. Slide the mounting brackets toward the rear of the chassis so that the shoulder screws get locked in place.

**Figure 24: Attach the Side Mounting Brackets**

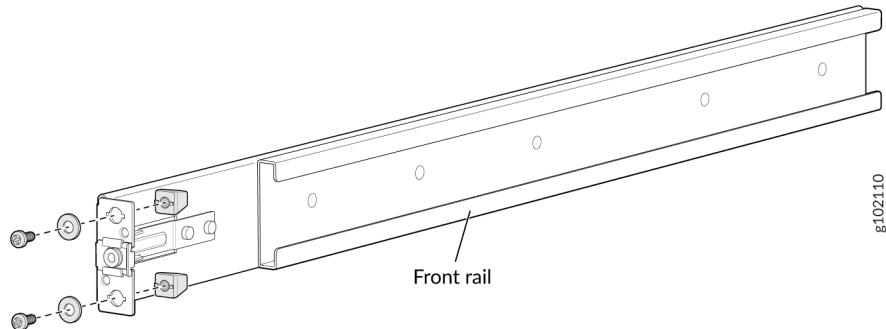


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4. Assemble the mounting rails:

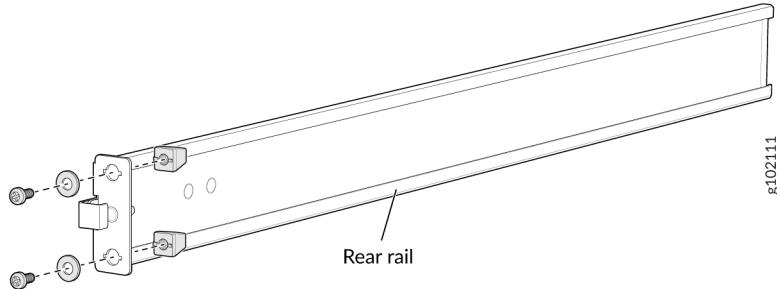
- a. Remove the guide blocks from the front mounting rails by loosening the screws and washers.

**Figure 25: Removing the Guide Blocks from the Front Mounting Rail**



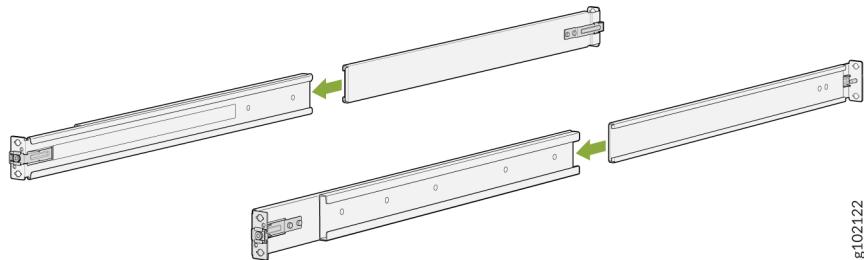
- b. Remove the guide blocks from the rear mounting rail by loosening the screws and washers.

**Figure 26: Removing the Guide Blocks from the Rear Mounting Rail**



- c. Slide the rear mounting rails into the front rails.

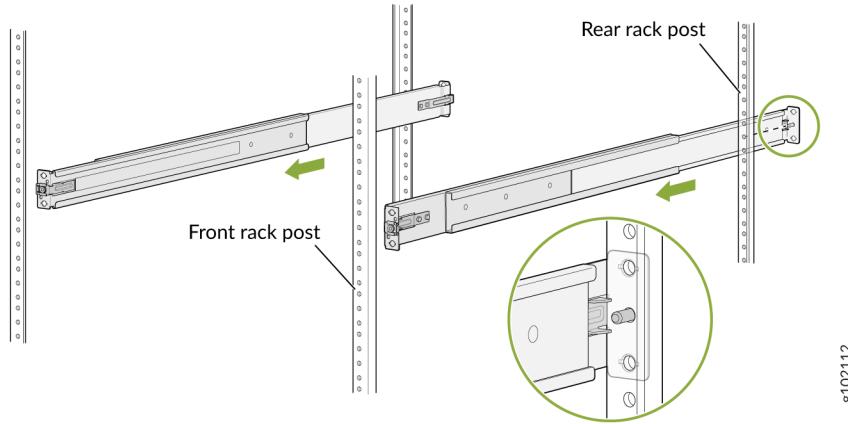
**Figure 27: Assemble the Mounting Rails**



5. Install the mounting rails on the rack:

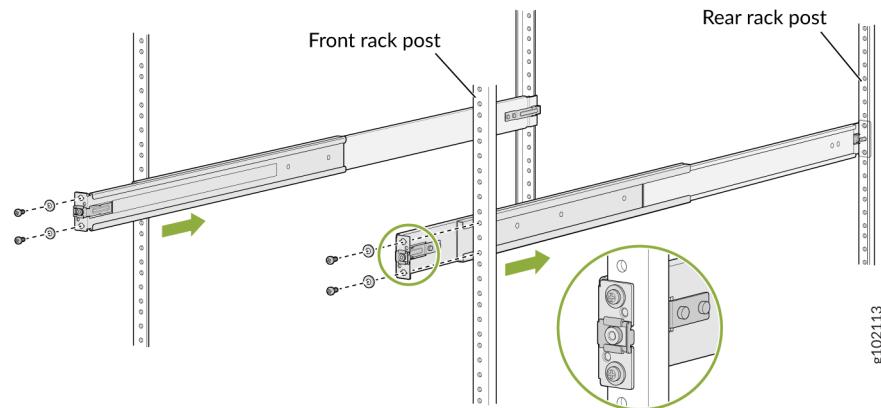
- a. Insert the guide pin of the rear mounting rails into the rear-post holes. Pull the rear mounting rails toward the front of the rack to lock the rails in place. You will hear a distinct click sound when the latch locks into place.

**Figure 28: Install the Rear Mounting Rails**



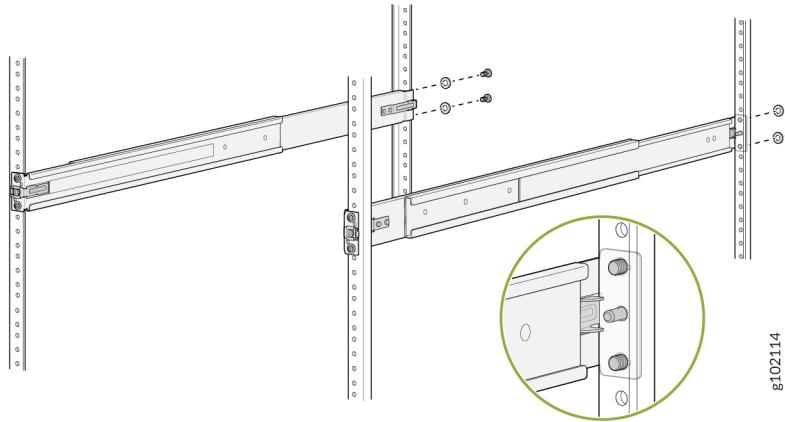
- b. Insert the guide pin of the front mounting rails into the front-post holes. Push the front mounting rails toward the rear of the rack to lock the rails in place. You will hear a distinct click sound when the latch locks into place. Secure the front mounting rails to the front rack post by using screws appropriate for your rack threaded size (not provided).

**Figure 29: Install and Secure the Front Mounting Rails**



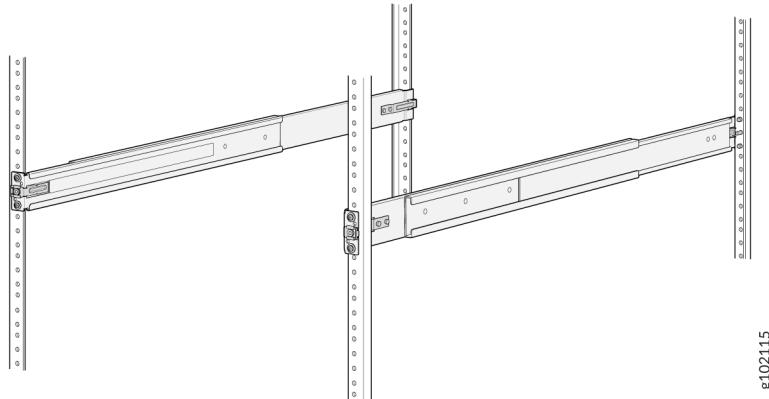
- c. Secure the rear mounting rails to the rear rack post by using screws appropriate for your rack threaded size (not provided).

**Figure 30: Secure the Rear Mounting Brackets**



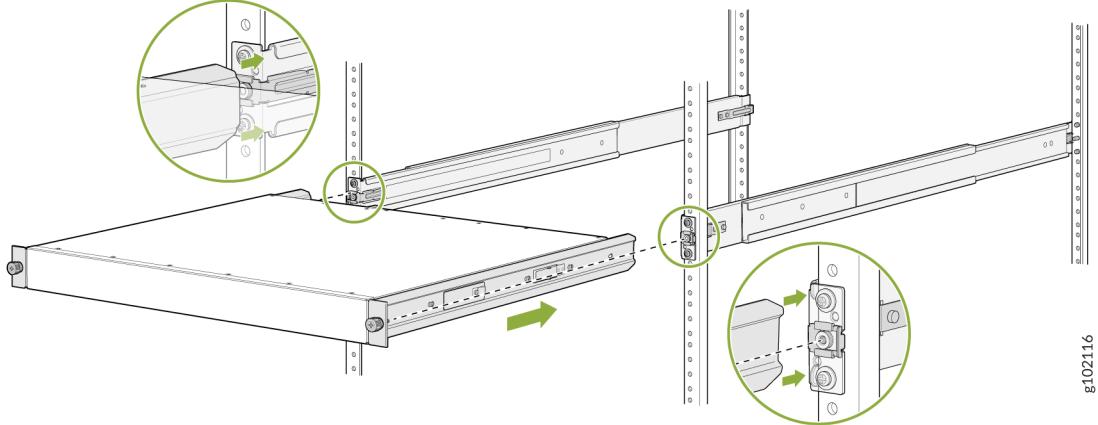
- d. Visually ensure that the front and rear latches are locked into place on the mounting rails. The mounting rails should be securely installed on the rack.

**Figure 31: Mounting Rails Installed and Secured**



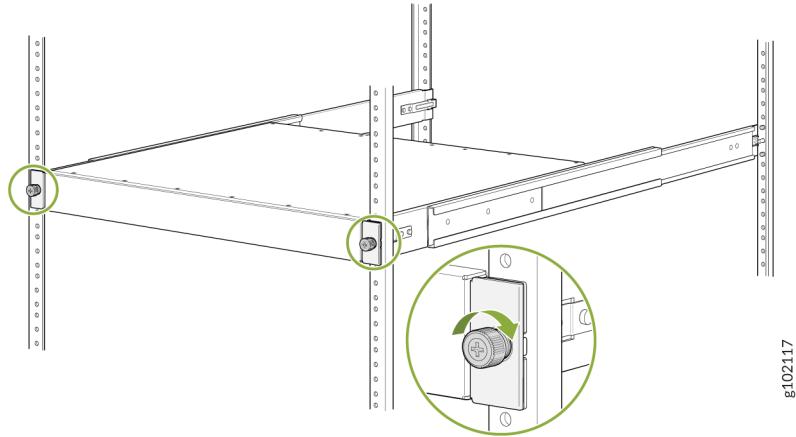
6. Lift the device and position it in the rack, aligning the side mounting brackets with the mounting rails. Slide the device into the channels of the rack mounting rails.

Figure 32: Slide the Device into the Rack



7. Tighten the two thumbscrews to secure the device.

Figure 33: Tighten the Thumbscrews



## Mount your Device by Using the SRX-2PST-TLESS-RMK Rack Mount Kit on a 2-Post Rack

Ensure that you have the following tools and parts available:

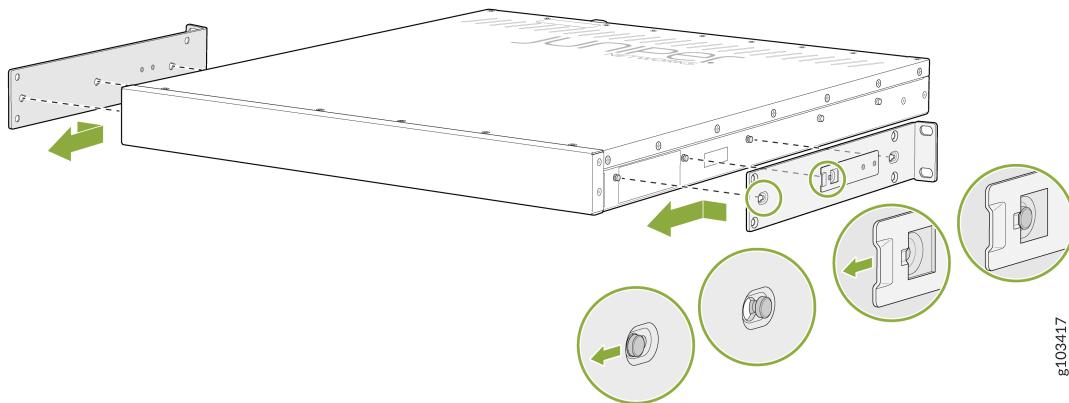
- An ESD grounding strap—not provided.
- A screwdriver—not provided.

- Four screws appropriate for your rack threaded size—not provided.
- A pair of side mounting brackets that attach to the chassis—provided with the rack mount kit.

To mount the device on a two-post rack:

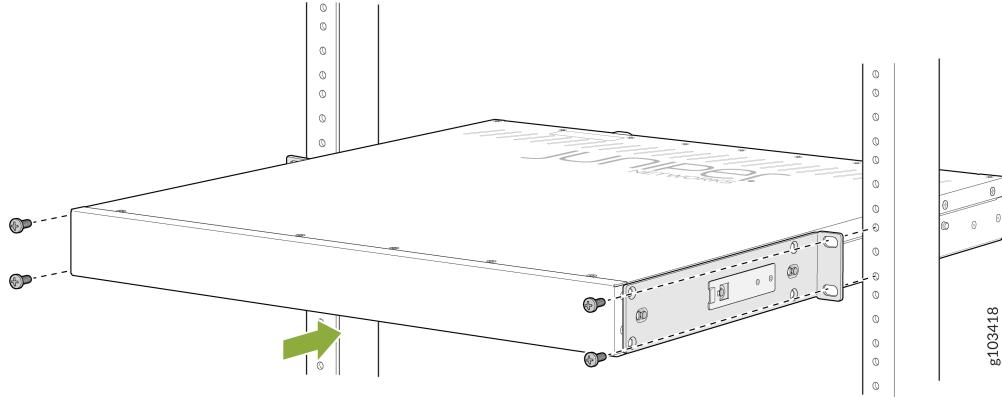
1. Review the [General Safety Guidelines and Warnings](#).
2. Wrap and fasten one end of the electrostatic discharge (ESD) cable grounding strap around your bare wrist, and connect the other end to a site ESD point.
3. To attach the side mounting brackets to the chassis, align the keyholes on the mounting brackets over the shoulder screws on the chassis. Slide the mounting brackets toward the front of the chassis. The latch on the mounting brackets locks into place.

**Figure 34: Attach the Side Mounting Brackets**



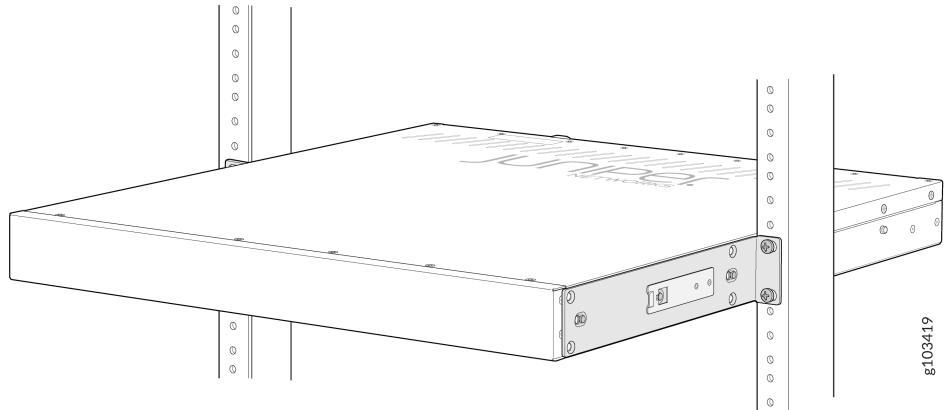
4. Lift the device and position it in the rack, aligning the holes on the side mounting brackets with the rack post holes. Attach the mounting brackets to the rack post by using screws appropriate for your rack threaded size (not provided).

Figure 35: Attach the Device to the Rack Posts



5. Tighten the screws using a screwdriver. Ensure that the device is secured to the rack posts.

Figure 36: Secure the Device



## Connect SRX4300 to Power

### SUMMARY

### IN THIS SECTION

- [Connect Earth Ground to SRX4300 | 63](#)

Connecting power to the SRX4300 involves numerous steps and safety precautions to prevent equipment damage and personal injury.

- [Connect AC Power to an SRX4300 Firewall | 65](#)
- [Connect DC Power to an SRX4300 Firewall | 67](#)
- [Power Off the SRX4300 | 70](#)



**NOTE:** To meet safety and electromagnetic interference (EMI) requirements and to ensure proper operation, you must connect the SRX4300 to an earth ground before you connect it to power.

## Connect Earth Ground to SRX4300



**NOTE:** Before you connect an earth ground to the protective earthing terminal of an SRX4300, ensure that a licensed electrician attaches an appropriate grounding terminal to the grounding cable you supply. Using a grounding cable with an incorrectly attached terminal can damage the device.

Before connecting the device to an earth ground, ensure that you have the following parts and tools:

- An electrostatic discharge (ESD) grounding strap.
- 2-hole protective earthing terminal.
- Grounding cable for your device—The grounding cable must be 6 AWG (4.11 mm<sup>2</sup>) stranded wire and rated 90 °C or per local electrical code.
- Grounding 2-hole terminal for your grounding cable—This attaches to the chassis grounding point located on the rear of the device.
- A Phillips screwdriver to tighten the screw.

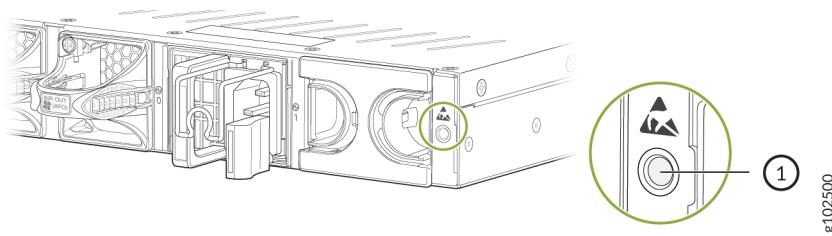
The Panduit LCD6-14A-L terminal lugs, or equivalent are sized for 6 AWG (4.11 mm<sup>2</sup>) power source cables. The 6 AWG (4.11 mm<sup>2</sup>) stranded wire should be rated 90 °C or per local electrical code. We recommend that you install heat-shrink tubing insulation around the crimped section of the power cables and lugs.

To ground the SRX4300, connect a grounding cable to earth ground. Attach the grounding cable to the chassis grounding point located on the rear of the device. Under all circumstances, use this grounding connection to ground the chassis.

To ground the device:

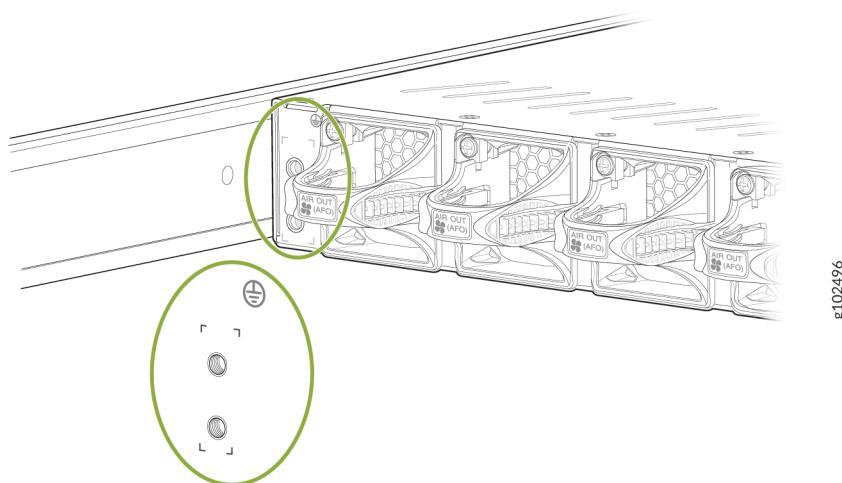
1. Wrap and fasten one end of the ESD grounding strap around your wrist and connect the other end to the ESD point on the chassis.

**Figure 37: Chassis ESD point**



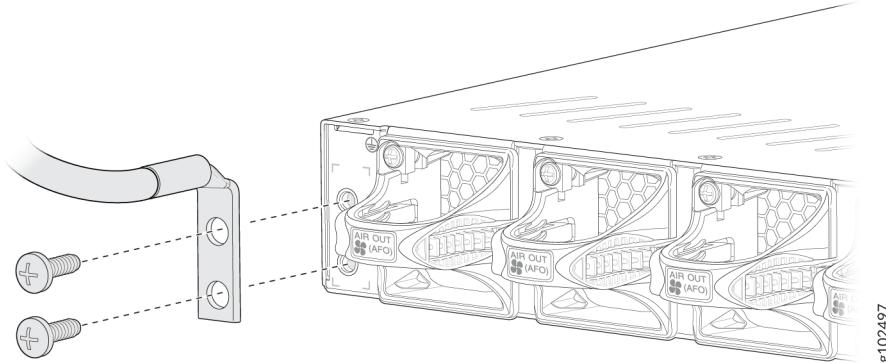
2. Ensure that all grounding surfaces are clean and brought to a bright finish before making the grounding connections.
3. Connect the grounding cable to a proper earth ground, such as the rack in which you mount the device.
4. Using a Phillips screwdriver, remove the two M5 screws from the grounding point on the rear of the chassis.

**Figure 38: Grounding Point on the SRX4300**



- Secure the grounding cable terminal to the grounding point with the M5 screws removed earlier.

**Figure 39: Connect the Grounding Cable to the SRX4300**



- Place the grounding cable terminal attached to the grounding cable over the grounding point.
- Verify that the grounding cable does not touch or block access to the device components. Make sure that it does not trail across the floor where people could trip over it.



**NOTE:** Ensure that the device is permanently connected to ground during operation.

## Connect AC Power to an SRX4300 Firewall

The AC power supply units (PSUs) in an SRX4300 are hot-removable and hot-insertable field-replaceable units (FRUs). You can remove and replace the PSUs without powering off the device or disrupting its functions.



**CAUTION:** You must not mix AC and DC power supplies in the same chassis.

Before you begin to connect AC power to the device:

- Ensure that you have connected the chassis to an earth ground.



**WARNING:** Before you connect power to the device, a licensed electrician must attach a cable terminal to the grounding and power cables that you supply. A cable with an

incorrectly attached terminal can damage the device (for example, by causing a short circuit).

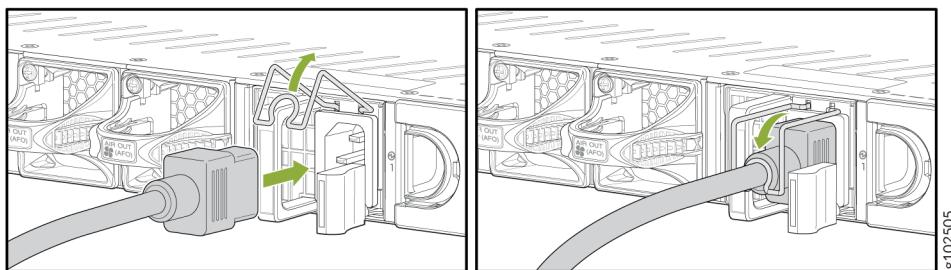
To meet safety and electromagnetic interference (EMI) requirements and to ensure proper operation, you must connect the chassis to an earth ground before you connect it to power. For installations that require a separate grounding conductor to the chassis, use the protective earthing terminal on the device chassis to connect to the earth ground. The device gains additional grounding when you plug the PSM in the router to a grounded AC power outlet. Use the AC power cord appropriate for your geographical location.

- Ensure that you have a power cord appropriate for your geographical location available to connect AC power to the device.
- Read [AC Power Electrical Safety Guidelines](#) and [Action to Take After an Electrical Accident](#).
- Ensure that you have taken the necessary precautions to prevent electrostatic discharge (ESD) damage.
- Ensure that you have an ESD grounding strap.
- If not already installed, install the power supplies in the device.

To connect AC power to an SRX4300:

1. Wrap and fasten one end of the ESD wrist strap around your bare wrist, and connect the other end of the strap to the ESD point on the device.
2. Lift the power cord retainer on the power supply.
3. Locate the AC power cords shipped with the SRX4300; the cords have plugs appropriate for your geographical location. See [Table 20 on page 32](#).
4. Insert the coupler end of the power cord into the AC power cord inlet on the AC power supply faceplate.
5. Push the power cord retainer onto the power cord (see [Figure 40 on page 66](#)).

**Figure 40: Connect AC Power Cord**



6. Repeat step 4 and step 5 to insert the second power cord.
7. If the AC power source outlet has a power switch, set it to the off (O) position.
8. Insert the power cord plug into an AC power source outlet.



**NOTE:** Connect each power supply to a dedicated AC power feed and a dedicated external circuit breaker. We recommend that you use a 16 A (250 VAC) minimum, or as permitted by the local code.

9. If the AC power source outlet has a power switch, set it to the on (I) position.

## Connect DC Power to an SRX4300 Firewall

You connect DC power to the firewall by attaching power cables from the external DC power sources to the terminal studs on the power supply faceplates.



**CAUTION:** You must not mix AC and DC power supplies in the same chassis.



**WARNING:** Before you connect power to the firewall, a licensed electrician must attach appropriate cable terminals to the grounding and power cables that you use. A cable with an incorrectly attached terminal can damage the device (for example, by causing a short circuit).

To meet safety and electromagnetic interference (EMI) requirements and to ensure proper operation, you must properly ground the chassis before connecting power. See ["Connect Earth Ground to SRX4300" on page 63](#) for instructions.



**WARNING:** Before performing the following procedure, ensure that you remove the power from the DC circuit. To ensure that all power is off, locate the circuit breaker on the panel board that services the DC circuit. Switch the circuit breaker to the OFF position (0), and tape the switch handle of the circuit breaker in the OFF position.

The power cables for the DC PSUs are rated 16 AWG. To connect the DC source power cables to the firewall for each power supply:

1. Switch off the dedicated facility circuit breakers. Ensure that the voltage across the DC power source cable leads is 0 V. You must ensure that the cable leads do not become active during installation.
2. Install heat-shrink tubing insulation around the power cables:

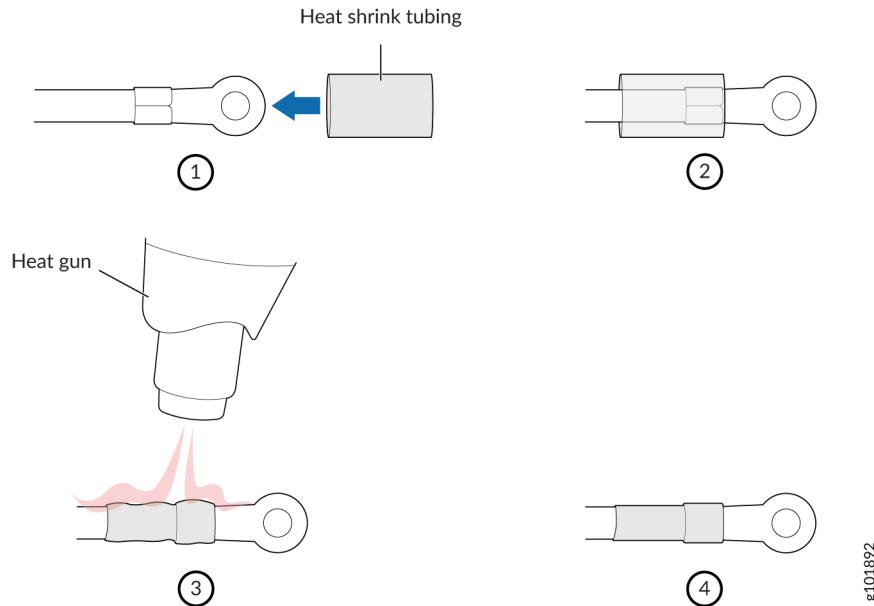
- a. Slide the tubing over the portion of the cable where it is attached to the terminal barrel. Ensure that the tubing covers the end of the wire and the barrel of the terminal attached to it.
- b. Shrink the tubing with a heat gun. Ensure that you heat all sides of the tubing evenly so that it shrinks around the cable tightly.



**NOTE:** Make sure that you do not overheat the tubing.

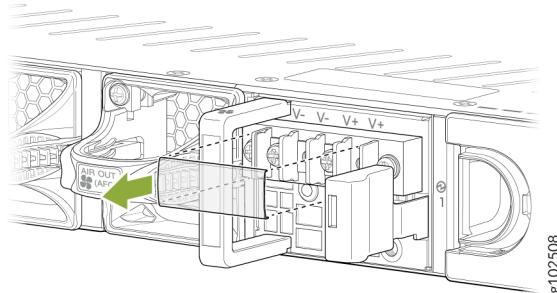
[Figure 41 on page 68](#) shows how to install heat-shrink tubing.

**Figure 41: How to Install Heat-Shrink Tubing**



3. Remove the clear plastic cover that protects the terminal studs on the faceplate.

Figure 42: Remove the Terminal Cover



4. Verify that you have correctly labeled the DC power cables before making connections to the power supply.

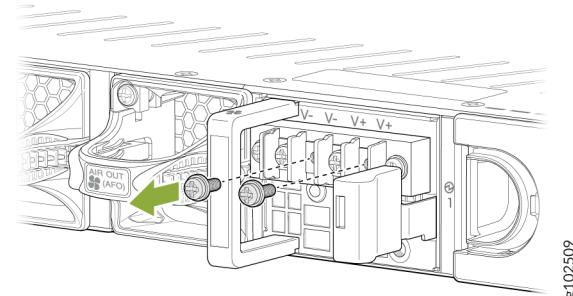
In a typical power distribution scheme where the return is connected to chassis ground at the battery plant, you can use a multimeter to verify the ohm output of the -48 V and return (RTN) DC cables to chassis ground. The cable with very large resistance (indicating an open circuit) to chassis ground will be -48V. The cable with very low resistance (indicating a closed circuit) to chassis ground will be RTN.



**CAUTION:** You must ensure that power connections maintain the proper polarity. The power source cables might be labeled (+) and (-) to indicate their polarity. There is no standard color coding for DC power cables. The color coding used by the external DC power source at your site determines the color coding for the leads on the power cables that attach to the terminal studs on each power supply.

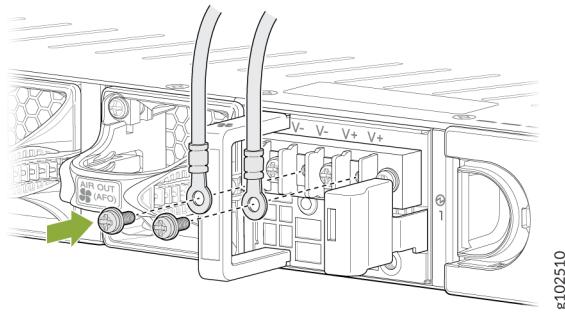
5. Remove the screws and square washers from the terminals, using a Phillips (+) screwdriver, number 2.

Figure 43: Remove the Screws From the Terminals



- Secure each power cable ring terminal to the terminals with the square washers and the screws. Apply between 23 in.-lb (2.6 Nm) and 25 in.-lb (2.8 Nm) of torque to each screw.
  - Secure each positive (+) DC source power cable lug to an RTN (return) terminal.
  - Secure each negative (-) DC source power cable lug to a -48 V (input) terminal.

**Figure 44: Connecting the DC Power Cables**



**NOTE:** Connect each power cable to a dedicated external circuit breaker. We recommend that you use a 25 A (80 VDC), or as permitted by the local code.

- Replace the clear plastic cover over the terminal studs on the faceplate.
- Verify that the power cables are connected correctly. The cables must not touch or block access to firewall components, and they must not cause a tripping hazard.
- Switch the circuit breaker on the panel board that services the DC circuit to the ON (|) position.
- Connect the power cables to the external DC power source. If the external DC power source has a switch, set it to the ON (|) position.

## Power Off the SRX4300

You can power off the firewall in any of the following two ways:

- Graceful shutdown—Press and immediately release the Power button. The device begins gracefully shutting down the operating system (OS) and then powers itself off.



**CAUTION:** Use the graceful shutdown method to power off or reboot the firewall.

- Forced shutdown—Press the Power button and hold it for ten seconds. The device immediately powers itself off without shutting down the OS.



**CAUTION:** Use the forced shutdown method as a last resort to recover the firewall if the firewall OS is not responding to the graceful shutdown method.

To remove power completely from the firewall, unplug the AC power cord or DC power supply cable.

After powering off a power supply, wait at least 60 seconds before turning it back on. After powering on a power supply, wait at least 10 seconds before turning it off.

When the system is completely powered off and you turn on the power supply, the firewall starts as the power supply completes its startup sequence. If the firewall finishes starting and you need to power off the system again, first issue the request `vmhost halt` command.



**NOTE:** The fans in the power supply continue to rotate even after you power off the SRX4300 Firewall. To stop the fans, remove the power cord from the power supply. The fans will stop in a few seconds.

After turning on the power supply, it can take up to 60 seconds for status indicators—such as the PWR LED and the `show chassis` command display—to indicate that the power supply is functioning normally. Ignore error indicators that appear during the first 60 seconds.

## Connect SRX4300 to External Devices

### IN THIS SECTION

- Connect the to a Network for Out-of-Band Management | [71](#)
- Connect the to a Management Console Using an RJ-45 Connector | [72](#)

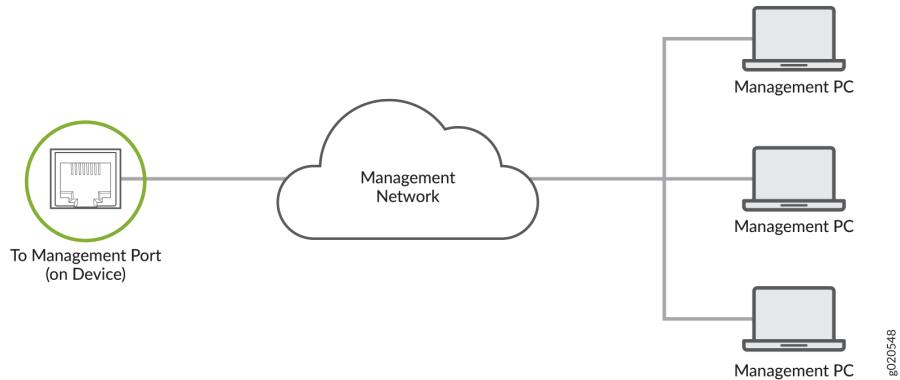
### Connect the to a Network for Out-of-Band Management

Ensure that you have an Ethernet cable that has an RJ-45 connector at each end.

To connect a device to a network for out-of-band management:

1. Wrap and fasten on end of an electrostatic discharge (ESD) grounding strap to your bare wrist and connect the other end of the strap to one of the ESD points on the chassis.
2. Connect one end of the Ethernet cable to the management port on the device.
3. Connect the other end of the cable to the management device.

**Figure 45: Connecting Your Device to a Network for Out-of-Band Management**



## Connect the to a Management Console Using an RJ-45 Connector

Ensure that you have an Ethernet cable that has an RJ-45 connector at either end. You will also need the appropriate adapter (not provided) depending upon your console server or management console.

You can order the following separately from Juniper:

- RJ-45 to DB-9 adapter (JNP-CBL-RJ45-DB9)
- RJ-45 to USB-A adapter (JNP-CBL-RJ45-USBA)
- RJ-45 to USB-C adapter (JNP-CBL-RJ45-USBC)



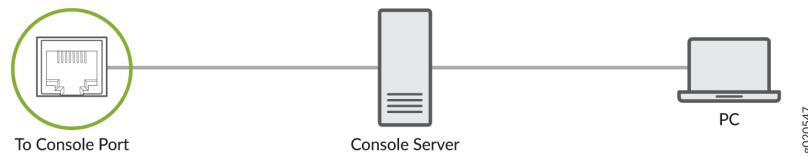
**NOTE:** If you want to use the RJ-45 to USB-A or RJ-45 to USB-C adapter you must have X64 (64-Bit) Virtual COM port (VCP) driver installed on your PC. See <https://ftdichip.com/drivers/vcp-drivers/> to download the driver.

To connect the device to a management console:

1. Wrap and fasten on end of an electrostatic discharge (ESD) grounding strap to your bare wrist and connect the other end of the strap to one of the ESD points on the chassis.

2. Connect one end of the Ethernet cable to the console port on the device.
3. Connect the other end of the cable to the console server.

**Figure 46: Connecting Your Device to a Management Console through a Console Server**



**Figure 47: Connecting the Your Device directly to a Management Console**



## Register Products—Mandatory to Validate SLAs

Juniper Networks auto registers newly purchased products based on the end customer information provided at the point of sale. Registering products and changes to products activates your hardware replacement service-level agreements (SLAs).



**CAUTION:** Update the installation base data if any installation base data is added or changed or if the installation base is moved. Juniper Networks is not responsible for customers not meeting the hardware replacement service-level agreement (SLA) for products that do not have registered serial numbers or accurate installation base data. To know more about how to register your product and update your installation base, see [Juniper Networks Product Registration and Install Base Management](#).

# Configure Junos OS on the SRX4300

## IN THIS SECTION

- [Configuring the SRX4300 Using J-Web | 74](#)
- [Configure the SRX4300 using Juniper® Security Director Cloud | 75](#)
- [Accessing the CLI on the SRX4300 | 75](#)
- [Configuring Root Authentication and the Management Interface from the CLI | 76](#)
- [Factory-Default Configuration of the SRX4300 | 78](#)
- [Viewing the SRX4300 Firewall Factory-Default Configuration | 78](#)

We ship the SRX4300 Firewall with preinstalled Junos OS, which is ready to be configured when you power on the device. You can use the J-Web GUI, Juniper® Security Director on Premise, Juniper® Security Director Cloud, or the CLI to perform the initial configuration.

## Configuring the SRX4300 Using J-Web

The J-Web interface is a Web-based graphical interface that allows you to operate a firewall without commands.

To access the J-Web interface on a new device that has the factory-default configuration:

1. Connect the management port (fxp0) port on your device to the Ethernet port on the management device (laptop or PC), using an RJ-45 cable.
2. Manually configure the management device with a compatible IP address in the 192.168.1.0 network (for example, 192.168.1.2). Do not use the 192.168.1.1 IP address for the management device as this IP address is assigned to the fxp0 interface.
3. Open a browser and enter <https://192.168.1.1> in the address bar.

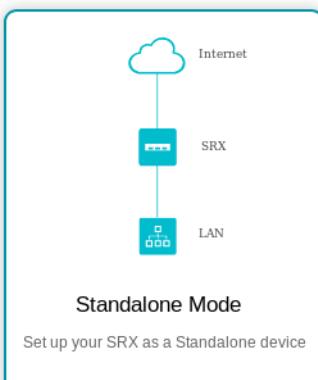
The **J-Web Setup** page opens. You can choose one of the following setup modes to configure the device:

- **Standalone mode**—In this mode, you can configure basic settings such as device credentials, time, management interface, zones and interfaces, and DNS servers and default gateways.

- Cluster (HA) mode—In cluster mode, a pair of devices are connected and configured to operate like a single node, providing device, interface, and service level redundancy.
- Passive (Tap) mode—TAP mode allows you to passively monitor traffic flows across a network. If intrusion prevention system (IPS) is enabled, then the TAP mode inspects the incoming and outgoing traffic to detect the number of threats.

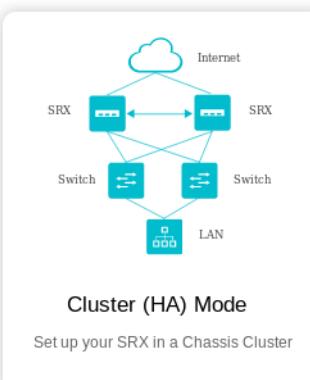
Welcome to J-Web [?](#)

Set up your SRX device in few steps



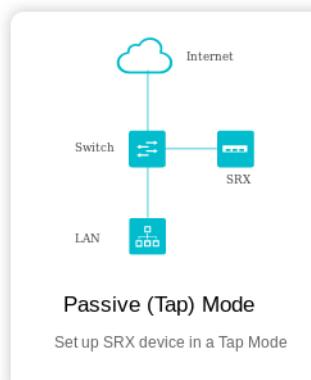
**Standalone Mode**

Set up your SRX as a Standalone device



**Cluster (HA) Mode**

Set up your SRX in a Chassis Cluster



**Passive (Tap) Mode**

Set up SRX device in a Tap Mode

[Cancel](#)
[Skip Setup](#)
[Start](#)

4. Select the setup mode that you want to use to configure the device and click **Start**.

The **Setup Wizard** page appears.

5. Follow the instructions in [Configure SRX Devices Using the J-Web Setup Wizard](#) to configure your device.

## Configure the SRX4300 using Juniper® Security Director Cloud

Juniper® Security Director Cloud is a cloud-based software-as-a-solution (SaaS) portal that helps you securely migrate your network to a Secure Access Service Edge (SASE) architecture.

Follow the instructions in the [Juniper Security Director Cloud Quick Start](#) guide to configure your device.

## Accessing the CLI on the SRX4300

To access the CLI on your device:

1. Connect the management device to the serial console port as described in "[Connect the to a Management Console Using an RJ-45 Connector](#)" on page 72.
2. Start your asynchronous terminal emulation application (such as Microsoft Windows HyperTerminal) and select the appropriate COM port to use (for example, COM1).
3. Configure the serial port settings with the following values:
  - Baud rate—9600
  - Parity—N
  - Data bits—8
  - Stop bits—1
  - Flow control—none
4. Power on the device. You can start performing initial software configuration on the device after the device is up.



**NOTE:** After you have completed the initial configuration, you can connect your device to a network for out-of-band management as described in "[Connect the to a Network for Out-of-Band Management](#)" on page 71.

## Configuring Root Authentication and the Management Interface from the CLI

You must perform the initial configuration of the device through the console port.

Gather the following information before configuring the device:

- Root authentication
- IP address of the management interface
- Default route

To configure root authentication and the management interface:

1. Log in as root. There is no password.

2. Start the CLI and enter configuration mode.

```
root@% cli
root@>configure
root@#
```

3. Set the root authentication password. You can enter a cleartext password, an encrypted password, or an SSH public key string (DSA or RSA).

```
[edit]
root@# set system root-authentication plain-text-password
New password: password
Retype new password: password
```

4. Commit the configuration to activate it on the device.

```
[edit]
root@# commit
```

5. Configure the IP address and prefix length for the Ethernet management interface on the device.

```
[edit]
root@# set interfaces fxp0 unit 0 family inet address address/prefix-length
```

6. Configure the default route.

```
[edit]
root@# set routing-options static route 0.0.0.0/0 next-hop gateway
```

7. Enable Web access to launch J-Web.

```
[edit]
root@# set system services web-management http
```

8. Commit the configuration changes.

```
[edit]
root@# commit
```

## Factory-Default Configuration of the SRX4300

Your firewall comes configured with a factory-default configuration. The default configuration includes the following security configuration:

- Two security zones are created: trust and untrust.
- A security policy is created that permits outbound traffic from the trust zone to the untrust zone.
- Source Network Address Translation (NAT) is configured on the trust zone.

If the current active configuration fails, you can use the `load factory-default` command to revert to the factory-default configuration.

## Viewing the SRX4300 Firewall Factory-Default Configuration

To view the factory-default configuration of the firewall using the CLI:

1. Log in as the root user and provide your credentials.
2. View the list of default configuration files:

```
root@srx4300>file list /etc/config
```

3. View the required default configuration file.

```
root@srx4300>file show /etc/config/config-file-name
```

# 5

CHAPTER

## Maintaining Components

---

### IN THIS CHAPTER

- Routine Maintenance Procedures for the SRX4300 | 80
- SRX4300 Cooling System Maintenance | 80
- SRX4300 Power Supply Maintenance | 83

---

# Routine Maintenance Procedures for the SRX4300

To maintain optimum performance of the appliance, you must regularly perform the following preventive maintenance procedures:

- Inspect the installation site for moisture, loose wires or cables, and excessive dust.
- Ensure that airflow is unobstructed around the appliance and into the air intake vents.
- Check the status LEDs on the front panel of the appliance.

## SRX4300 Cooling System Maintenance

### SUMMARY

Maintaining the SRX4300 includes removing and installing the fans.

### IN THIS SECTION

- [Remove the Fan Module from the SRX4300 | 81](#)
- [Install the Fan Module in the SRX4300 | 82](#)

The SRX4300 has six independent, field-replaceable fans at the rear of the chassis.

Each fan module is a hot-removable and hot-insertable field-replaceable unit (FRU). You can remove and replace the fans without turning off power to the appliance or disrupting its functions.



**NOTE:** The time within which you must replace a failed fan module depends on the ambient temperature. Check the temperature using the value of the **CB 0 TMP75 Inlet Right** sensor in the show chassis environment command output.

If the temperature is up to 104°F (40°C), you must replace the fan module within 2 minutes. If the temperature is greater than 104°F (40°C), you must replace the fan module within 40 seconds.

Before you replace a fan:

- Ensure that you understand how to prevent ESD damage.
- Ensure that you have the following parts and tools:

- Electrostatic discharge (ESD) grounding strap
- An antistatic bag or an antistatic mat
- A replacement fan module
- A Phillips (+) screwdriver, number 1 or 2 (optional), for the captive screws

## Remove the Fan Module from the SRX4300



**CAUTION:** Do not remove a fan unless you have a replacement fan available.

To remove a fan:

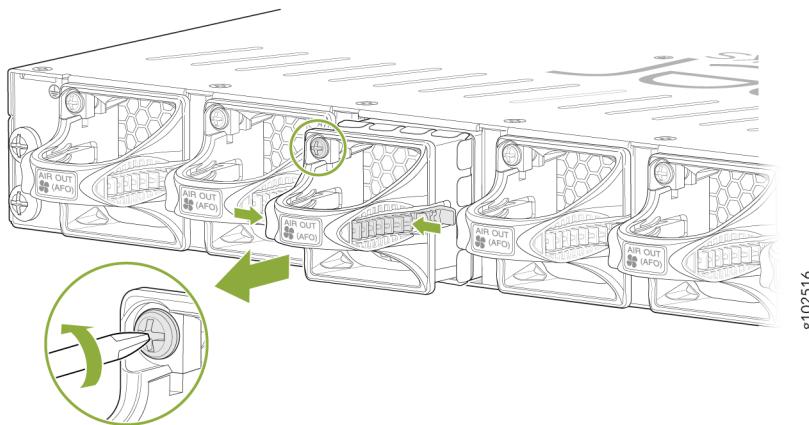
1. Wrap and fasten one end of the ESD grounding strap around your bare wrist, and connect the other end of the strap to one of the ESD points on the chassis.
2. Place the antistatic bag or the antistatic mat on a flat, stable surface.
3. Loosen the captive screws on the front faceplate of the fan module by using your fingers. If you can't loosen the captive screws by using your fingers, use the screwdriver.



**WARNING:** To prevent injury, do not touch the fan with your hands or any tools as you slide the fan module out of the chassis—the fan might still be running.

4. Grasp the handle on the fan module and pull it firmly to slide the fan module out of the chassis.

**Figure 48: Remove the Fan Module from the SRX4300**



g102516

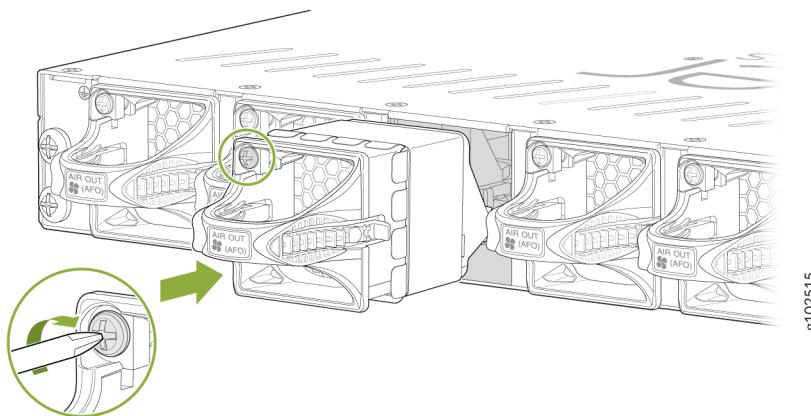
5. Place the fan module in the antistatic bag or on the antistatic mat.

## Install the Fan Module in the SRX4300

To install a fan:

1. Wrap and fasten one end of the ESD grounding strap around your bare wrist, and connect the other end of the strap to one of the ESD points on the chassis.
2. Remove the fan module from its bag.
3. Hold the handle of the fan module with one hand and support the weight of the module with the other hand. Place the fan module in the fan module slot on the rear panel of the switch and slide the module in until it is fully seated.

**Figure 49: Install the Fan Module in the SRX4300**



4. Tighten the captive screws on the faceplate of the fan module by using your fingers. If you can't tighten the captive screws by using your fingers, use the screwdriver.

# SRX4300 Power Supply Maintenance

## SUMMARY

Maintaining an SRX4300 appliance includes removing a failed power supply unit (PSU) and installing a functional PSU.

## IN THIS SECTION

- [Replace an AC PSU on the SRX4300 | 83](#)
- [Replace a DC PSU on the SRX4300 | 85](#)

## Replace an AC PSU on the SRX4300

### IN THIS SECTION

- [Remove the AC PSU from the SRX4300 | 83](#)
- [Install the AC PSU in the SRX4300 | 84](#)

The SRX4300 rear panel has two AC PSUs, which are hot-removable and hot-insertable field-replaceable units (FRUs). You can remove and replace the PSUs without powering off the SRX4300 or disrupting the firewall functions.

Ensure that you have the following parts and tools:

- ESD grounding strap
- Antistatic bag or an antistatic mat
- A replacement AC PSU
- A blank cover panel (in case you're not replacing the component)

### Remove the AC PSU from the SRX4300

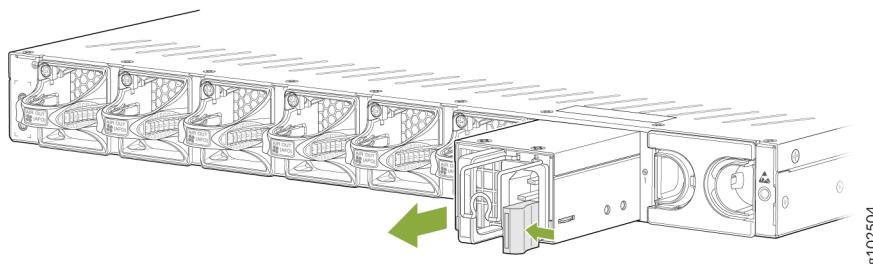
To remove an AC PSU from the appliance (see [Figure 50 on page 84](#)):



**CAUTION:** Avoid leaving the PSU slot empty for more than 30 minutes when the device is operational. For proper airflow, you must place the PSU in the chassis. Always cover the empty PSU slot with a blank panel.

1. If the AC power source outlet has a power switch, set it to the off (O) position.
2. Pull out the power cord connected to the power source outlet.
3. Place the antistatic bag or the antistatic mat on a flat, stable surface.
4. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist and connect the strap to the ESD point on the chassis.
5. Unplug the power cord from the device inlet on the PSU.
6. Press the latch, which is on the right side of the power outlet, to the left.
7. Pull the PSU straight out of the chassis.

**Figure 50: Remove an SRX4300 AC PSU**



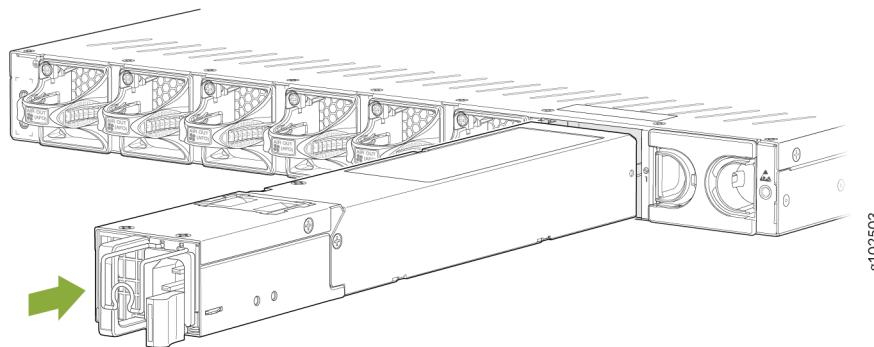
8. Place the PSU in the antistatic bag or on the antistatic mat that you've placed on a flat, stable surface.
9. If you're not replacing the PSU, install the cover panel over the PSU slot.

## Install the AC PSU in the SRX4300

To install an AC PSU (see [Figure 51 on page 85](#)):

1. Attach the ESD grounding strap to your bare wrist, and connect the strap to the ESD point on the chassis.
2. If the PSU slot has a cover panel on it, remove the cover panel. Save the cover panel for subsequent use.
3. Taking care not to touch the pins, leads, or solder connections on the PSU, remove the PSU from the bag.
4. Using both hands, place the PSU in the PSU slot on the rear panel of SRX4300. Slide the PSU straight into the chassis until the PSU is fully seated in the chassis slot. Ensure that the PSU faceplate is flush with the adjacent PSU faceplate.

**Figure 51: Install an SRX4300 AC PSU**



5. Connect the power cord (see "Connect SRX4300 to Power" on page 62).

## Replace a DC PSU on the SRX4300

### IN THIS SECTION

- Remove the DC PSU from an SRX4300 | [85](#)
- Install the DC PSU in the SRX4300 | [86](#)

The rear panel of the SRX4300 has two DC PSUs, which are hot-removable and hot-insertable field-replaceable units (FRUs). You can remove and replace the PSUs without powering off the SRX4300 or disrupting the firewall functions.

Ensure that you have the following parts and tools:

- ESD grounding strap
- Antistatic bag or an antistatic mat
- A replacement DC PSU
- A blank cover panel (in case you're not replacing the component)

### Remove the DC PSU from an SRX4300

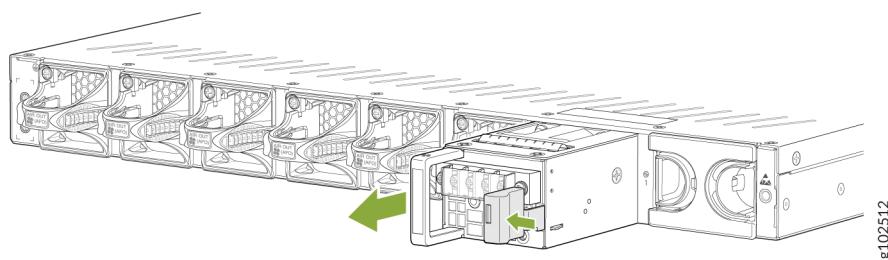
To remove a DC PSU from the appliance (see [Figure 52 on page 86](#)):



**CAUTION:** Avoid leaving the PSU slot empty for more than 30 minutes when the device is operational. For proper airflow, you must place the PSU in the chassis. Always cover the empty PSU slot with a blank panel.

1. Attach an electrostatic discharge (ESD) grounding strap to your bare wrist and connect the strap to the ESD point on the chassis.
2. Place the antistatic bag or the antistatic mat on a flat, stable surface.
3. Switch off the external circuit breakers for all cables connected to the PSU. Ensure that the voltage across the power source cable leads is 0 V. You must ensure that the cables do not become active during the removal process.
4. Remove the clear plastic cover protecting the terminal studs from the faceplate.
5. Remove the screws and washers from the terminals using a number 2 Phillips screwdriver.
6. Remove the cable terminals from the terminal studs. Carefully move the power cables out of the way.
7. Press the latch, which is on the right side of the power outlet, to the left.
8. Pull the PSU straight out of the chassis.

**Figure 52: Remove an SRX4300 DC PSU**



9. Place the PSU in the antistatic bag or on the antistatic mat that you've placed on a flat, stable surface.
10. If you are not replacing the PSU, install the cover panel over the PSU slot.

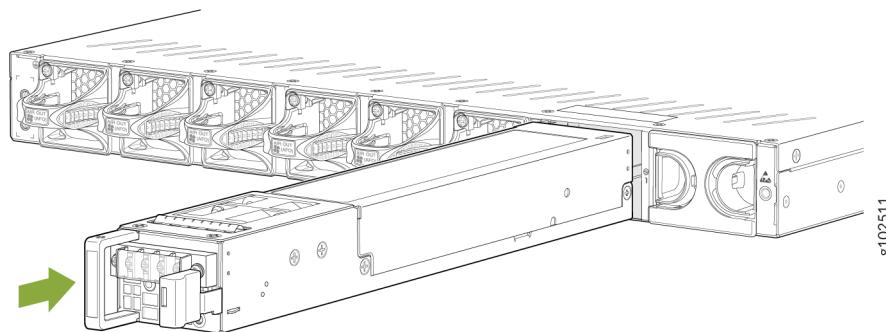
## Install the DC PSU in the SRX4300

To install a DC PSU (see [Figure 53 on page 87](#)):

1. Attach the ESD grounding strap to your bare wrist, and connect the strap to the ESD point on the chassis.

2. Switch off the circuit breaker on the panel board that services the DC circuit. Tape the handle of the circuit breaker in the OFF position. Ensure that the voltage across the power source cable leads is 0 V. You must ensure that the cables do not become active during the removal process.
3. If the PSU slot has a cover panel on it, remove the cover panel. Save the cover panel for subsequent use.
4. Taking care not to touch the terminals, leads, or solder connections on the PSU, remove the PSU from the bag.
5. Using both hands, place the PSU in the PSU slot on the rear panel of SRX4300. Slide the PSU straight into the chassis until the PSU is fully seated in the chassis slot. Ensure that the PSU faceplate is flush with the adjacent PSU faceplate.

**Figure 53: Install an SRX4300 DC PSU**



6. Tighten the captive screws on the lower edge of the PSU faceplate.
7. Connect the power cables (see "[Connect SRX4300 to Power](#)" on page 62).

# 6

CHAPTER

## Troubleshooting Hardware

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### IN THIS CHAPTER

- [Troubleshoot the SRX4300 | 89](#)

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# Troubleshoot the SRX4300

## IN THIS SECTION

- Troubleshooting Resources for the SRX4300 Firewall | [89](#)
- Troubleshooting Chassis and Interface Alarm Messages on the SRX4300 Firewall | [89](#)
- Troubleshooting the Power System on the SRX4300 | [91](#)
- Using the RESET Button | [93](#)

## Troubleshooting Resources for the SRX4300 Firewall

To troubleshoot a device, you use the Junos OS CLI and LEDs on the components:

- LEDs—When the device detects an alarm condition, the alarm LED on the interfaces glows red or yellow.
- CLI—The CLI is the primary tool for controlling and troubleshooting hardware, Junos OS, and network connectivity. Use the CLI to see more information about alarms. CLI command outputs display information about network connectivity, which Junos derives from the ping and traceroute utilities.

For information about using the CLI to troubleshoot Junos OS, see the appropriate Junos OS configuration guide.

- JTAC—if you need assistance during troubleshooting, you can contact the Juniper Networks Technical Assistance Center (JTAC) by using the Web or by telephone. If you encounter software problems, or problems with hardware components not discussed here, contact JTAC.

## Troubleshooting Chassis and Interface Alarm Messages on the SRX4300 Firewall

When the firewall detects an alarm condition, the alarm LED on the interfaces glows red or yellow on the front panel as appropriate. To view a more detailed description of the alarm cause, issue the `show chassis alarms` command.

Alarm messages belong to two classes:

- Chassis alarms—Indicate a problem with a chassis component such as the cooling system or PSU.
- Interface alarms—Indicate a problem with a specific network interface.

For more information about the `show chassis alarms` command, see [Network Management and Monitoring Guide](#).

[Table 33 on page 90](#) describes alarms that can occur for a firewall chassis component.

**Table 33: Alarms for Firewall Chassis Components**

Component	Alarm Conditions	Action	Alarm Severity
Boot media	If the internal flash fails at startup, the firewall automatically boots from the alternative boot device (USB storage device).	If you configured the firewall to boot from an alternative boot device, ignore this alarm condition.  If you did not configure the firewall to boot from an alternative boot device, contact JTAC.	Yellow (minor)
Hardware components on the firewall	The firewall chassis temperature is too warm.	<ul style="list-style-type: none"> <li>• Check the room temperature. See <a href="#">"Environmental Requirements and Specifications for SRX4300" on page 41</a>.</li> <li>• Check the air flow. See <a href="#">"Clearance Requirements for Hardware Maintenance of SRX4300" on page 41</a>.</li> </ul>	Yellow (minor)
	The firewall fan has failed.	Place your hand near the exhaust vents at the rear of the chassis to determine whether the fan is pushing air out of the chassis.	Red (major)



**NOTE:** The system does not raise chassis alarms for problems with the output voltage from the PSU, output current from the PSU, and the internal fan in the PSU.



**NOTE:** For more information about alarms, see the Junos OS Monitoring and Troubleshooting for Security Devices Guide.

## Troubleshooting the Power System on the SRX4300

The LEDs on the firewall enable you to determine the performance and operation of the power system. The PWR LED located on the front panel of the firewall, as described in "Chassis Status LEDs" on page 16, indicates the different status settings of the power system.

**Table 34: PWR LED Description**

LED Status	LED State	Meaning	Possible Cause and Corrective Action
Green	On	The firewall is receiving power, and all AC or DC power supply units (PSUs) are working properly.	The power system is normal and no action is required.
Red	On	One or more PSUs have failed.	<p>If you cannot determine the cause of the problem or need additional assistance:</p> <ul style="list-style-type: none"> <li>Open a support case using the <b>Service Request Manager</b> link at <a href="https://www.juniper.net/support/">https://www.juniper.net/support/</a>.</li> <li>Call 1-888-314-JTAC (if you're within the United States) or 1-408-745-9500 (if you're outside the United States).</li> </ul>

**Table 34: PWR LED Description (*Continued*)**

LED Status	LED State	Meaning	Possible Cause and Corrective Action
Blinking green	On	The firewall, which is in the bootup phase before Junos OS initialization, is receiving power.	The power system is normal and no action is required.
Off	Off	The firewall is not receiving power.	<p>Issue the <code>show chassis alarms</code> command to determine the source of the problem.</p> <ul style="list-style-type: none"> <li>Verify that the AC power cord or DC power supply cable is not damaged. If the insulation is cracked or broken, immediately replace the cord or cable.</li> <li>Verify that the source circuit breaker has the proper current rating. Each PSU must be connected to a separate source circuit breaker.</li> <li>Ensure that the power socket you are plugged into is in working condition.</li> <li>Connect the PSU to a different power source with a new power cord or power cables. If the LEDs on the PSU indicate that the PSU is not functioning normally, replace the PSU with a spare.</li> </ul> <p><b>NOTE:</b> If the system temperature exceeds the threshold, Junos OS shuts down all power supplies and the LED stops indicating the status. Junos OS also can shut down one of the PSUs for other reasons. In this case, the remaining PSU provides power to the firewall. You can view the system status through the CLI.</p>

## Using the RESET Button

If a configuration fails or denies management access to the firewall, you can use the RESET button to restore the device.

The RESET button is recessed to prevent it from being pressed accidentally. To press the RESET button, insert a small probe (such as a straightened paper clip) into the pinhole on the front panel.

- Pressing the RESET button for about 250 milliseconds will reboot the device.
- Pressing and holding the RESET button for more than 10 seconds will reboot the device and recover the primary BIOS.

# 7

CHAPTER

## Contacting Customer Support and Returning the Chassis or Components

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### IN THIS CHAPTER

- Contacting Customer Support and Returning the Chassis or Components | 95

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# Contacting Customer Support and Returning the Chassis or Components

## SUMMARY

If you need to return a hardware component to Juniper Networks Inc., you need a Return Material Authorization (RMA) number and the equipment serial number. The Juniper Networks Technical Assistance Center (JTAC) can generate an RMA number. You may also need to locate chassis or component details using the CLI or by referring to equipment labels. You then pack and ship the return.

## IN THIS SECTION

- [How to Return a Hardware Component to Juniper Networks | 95](#)
- [Locate the Chassis Serial Number ID Label | 96](#)
- [Contact Customer Support to Obtain Return Material Authorization | 97](#)
- [Guidelines for Packing and Shipping Hardware Components | 98](#)

## How to Return a Hardware Component to Juniper Networks

If a hardware component fails, please contact Juniper Networks to obtain a Return Material Authorization (RMA) number. We use this number to track the returned material at the factory and to return the repaired or new components to you, as needed.



**NOTE:** Do not return any component to Juniper Networks unless you have first obtained an RMA number. Juniper Networks reserves the right to refuse shipments that do not have an RMA number. Refused shipments are returned to you by collect freight.

For more information about return and repair policies, see the **Support** page at <https://support.juniper.net/support/>.

For product problems or technical support issues, contact the Juniper Networks Technical Assistance Center (JTAC) in one of the following ways:

- On the Web, using the **Service Request Manager** link at:  
<https://support.juniper.net/support/>
- By telephone:
  - From the U.S. and Canada: 1-888-314-JTAC (5822)

- From all other locations: 1-408-745-9500



**NOTE:** If contacting JTAC by telephone:

- To report a new incident, press the star (\*) key to be routed to the next available support engineer.
- To enquire about an existing case, enter your 12-digit service request number followed by the pound (#) key.

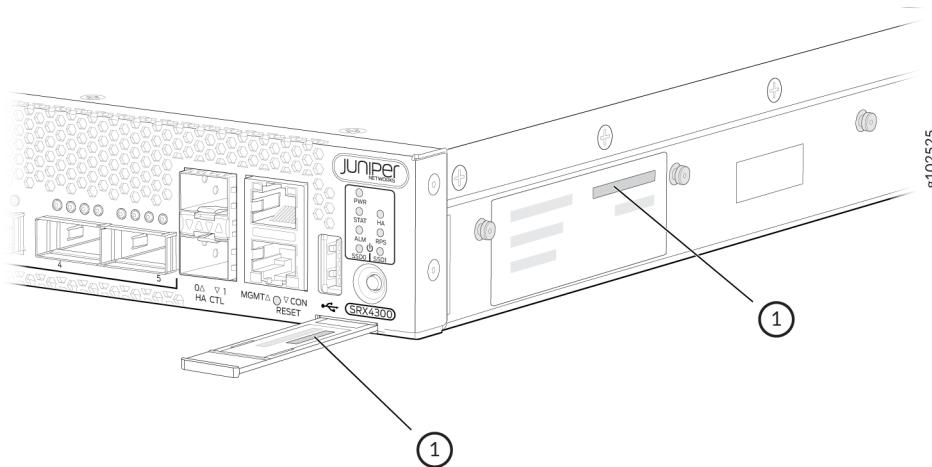
To return a defective hardware component:

1. Determine the part number and serial number of the defective component.
2. Obtain an RMA number from JTAC. You can open a support case or contact JTAC by telephone, as described above.
3. Provide the following information to JTAC:
  - Part number and serial number of the component
  - Your name, organization name, telephone number, and fax number
  - Description of the failure
4. The support representative validates your request and issues an RMA number for return of the component.
5. Pack the component for shipment. See "[Guidelines for Packing and Shipping Hardware Components](#)" on page 98.

## Locate the Chassis Serial Number ID Label

[Figure 54 on page 97](#) shows the location of the chassis serial number ID label.

Figure 54: Location of the Serial Number Label



## Contact Customer Support to Obtain Return Material Authorization

If you are returning a device or hardware component to Juniper Networks for repair or replacement, obtain a Return Material Authorization (RMA) number from the Juniper Networks Technical Assistance Center (JTAC).

After locating the serial number of the device or component you want to return, open a service request with JTAC.

Before you request an RMA from JTAC, be prepared to provide the following information:

- Your existing service request number, if you have one
- Serial number of the component
- Your name, organization name, telephone number, fax number, and shipping address
- Details of the failure or problem
- Type of activity you were performing on the device when the problem occurred
- Configuration data displayed by one or more show commands

You can contact JTAC 24 hours a day, seven days a week on the Web or by telephone:

- Service Request Manager: <https://support.juniper.net/support/>
- Telephone: +1-888-314-JTAC (+1-888-314-5822), toll-free in the USA, Canada, and Mexico



**NOTE:** For international or direct-dial options in countries without toll-free numbers, see <https://support.juniper.net/support/>.

If contacting JTAC by telephone:

- To report a new incident, press the star (\*) key to be routed to the next available support engineer.
- To enquire about an existing case, enter your 12-digit service request number followed by the pound (#) key.

The support representative validates your request and issues an RMA number for return of the component.

## Guidelines for Packing and Shipping Hardware Components

To pack and ship individual components:

1. When you return the chassis or components, make sure to adequately protect them with packing materials. Pack them properly to prevent the pieces from moving around inside the carton.
2. Use the original shipping materials, if they are available.
3. Place individual components in antistatic bags.
4. Write the RMA number on the exterior of the box to ensure proper tracking.
5. Ship the package.



**NOTE:** Remove the power supply units (PSUs) before packing the device.



**CAUTION:** Avoid stacking any of the hardware components.

# 8

CHAPTER

## Safety and Compliance Information

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# Safety Information

## IN THIS SECTION

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- [Warning Statement for Shielded Intra-Building Criteria | 100](#)
- [Warning Statement for Unshielded Intra-Building Criteria | 100](#)

The [Juniper Networks Safety Guide](#) provides general safety information and guidelines for all Juniper Networks products. Follow the guidelines provided in the guide to reduce the likelihood of personal injury, equipment damage, and damage to surrounding areas.

Along with the information provided in the Juniper Networks Safety Guide, you must read and understand the *SRX4300* specific safety information provided in this hardware guide.

## Boot Time

The boot time for the SRX4300 is approximately 490 seconds.

## Warning Statement for Shielded Intra-Building Criteria



**WARNING:** The intra-building port(s) of the equipment or subassembly must use shielded intra-building cabling or wiring that is grounded at both ends.

## Warning Statement for Unshielded Intra-Building Criteria



**WARNING:** Certain ports of a device are designed for use as intra-building (within-the-building) interfaces only (Type 2 or Type 4 ports as described in *GR-1089-CORE*) and

require isolation from the exposed outside plant (OSP) cabling. To comply with NEBS requirements and protect against lightning surges and commercial power disturbances, the intra-building ports must not be metallically connected to interfaces that connect to the OSP or its wiring. The intra-building ports on the device are suitable for connection to intra-building or unexposed wiring or cabling only. The addition of primary protectors is not sufficient protection for connecting these interfaces metallically to OSP wiring.

## SRX4300 Agency Approvals

### IN THIS SECTION

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- [EMC Requirements for Japan | 103](#)
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### Agency Approvals

The SRX4300 complies with the following standards:

- Safety
  - IEC 60950-1:2005, AMD 1:2009, AMD 2:2013 Information Technology Equipment
  - UL 60950-1:2007 R10.14 Information Technology Equipment
  - CAN/CSA-C22.2 No. 60950-1-07, AMD 1:2011, AMD 2:2014 Information Technology Equipment
  - IEC/EN 60825-1 Safety of Laser Products – Part 1: Equipment Classification
  - IEC 62368-1 2014 (2nd Edition) Audio/Video, Information and Communication Technology Equipment
  - IEC 62368-1 2018 (3rd Edition) Audio/Video, Information and Communication Technology Equipment

- EN 62368-1:2014+A11:2017 Audio/Video, Information and Communication Technology Equipment
- UL/CSA 62368-1 :2019 (3rd Edition) Audio/Video, Information and Communication Technology Equipment
- EMC
  - FCC 47 CFR Part 15
  - ICES-003 / ICES-GEN
  - BS EN 55032
  - BS EN 55035
  - EN 300 386 V1.6.1
  - EN 300 386 V2.2.1
  - BS EN 300 386
  - EN 55032
  - CISPR 32
  - EN 55035
  - CISPR 35
  - IEC/EN 61000 Series
  - IEC/EN 61000-3-2
  - IEC/EN 61000-3-3
  - AS/NZS CISPR 32
  - VCCI-CISPR 32
  - BSMI CNS 15936
  - KS C 9835 (Old KN 35)
  - KS C 9832 (Old KN 32)
  - KS C 9610
  - BS EN 61000 Series
  - GR3160

- VCCI 32-1
- VCCI Class A (2007) Japanese Radiated Emissions
- Environmental
  - Reduction of Hazardous Substances (RoHS) 6
  - DC NEBS (GR 3160)
- ETSI EN-300386-2 Telecommunication Network Equipment. Electromagnetic Compatibility Requirements
- Common Language Equipment Identifier (CLEI) code

## Compliance Statements for NEBS

- The equipment is suitable for installation as part of the Common Bonding Network (CBN).
- The equipment is suitable for installation in locations where the National Electrical Code (NEC) applies.
- The battery return connection is to be treated as an isolated DC return (i.e. DC-I), as defined in GR-1089-CORE.
- For Juniper Networks systems with AC power supplies, an external surge protective device (SPD) must be used at the AC power source.

## EMC Requirements for Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI - A

The preceding translates as follows:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

VCCI-A

## Compliance Statement for Argentina

EQUIPO DE USO IDÓNEO.