

Cisco Firepower 1010 Series Hardware Installation Guide

First Published: 2019-07-24

Last Modified: 2026-08-12

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The following information is for FCC compliance of Class A devices: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio-frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.

The following information is for FCC compliance of Class B devices: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment causes interference to radio or television reception, which can be determined by turning the equipment off and on, users are encouraged to try to correct the interference by using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications to this product not authorized by Cisco could void the FCC approval and negate your authority to operate the product.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB’s public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

All printed copies and duplicate soft copies of this document are considered uncontrolled. See the current online version for the latest version.

Cisco has more than 200 offices worldwide. Addresses and phone numbers are listed on the Cisco website at www.cisco.com/go/offices.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: https://www.cisco.com/c/en/us/about/legal/trademarks.html. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R)

© 2019-2026 Cisco Systems, Inc. All rights reserved.



CONTENTS

CHAPTER 1 **Overview** 1

- Features 1
- Package contents 3
- QR code sticker 4
- Serial number and compliance label 6
- Front panel 6
- Rear panel 7
- Management, console, USB, and network ports 7
- Status LEDs 9
- Hardware specifications 12
- Product ID numbers 13
- Power cord specifications 14

CHAPTER 2 **Installation Preparation** 21

- Installation warnings 21
- Position the chassis 23
- Safety recommendations 24
- Maintain safety with electricity 24
- Prevent ESD damage 25
- Site environment 25
- Site considerations 25
- Power supply considerations 26
- Rack configuration considerations 26

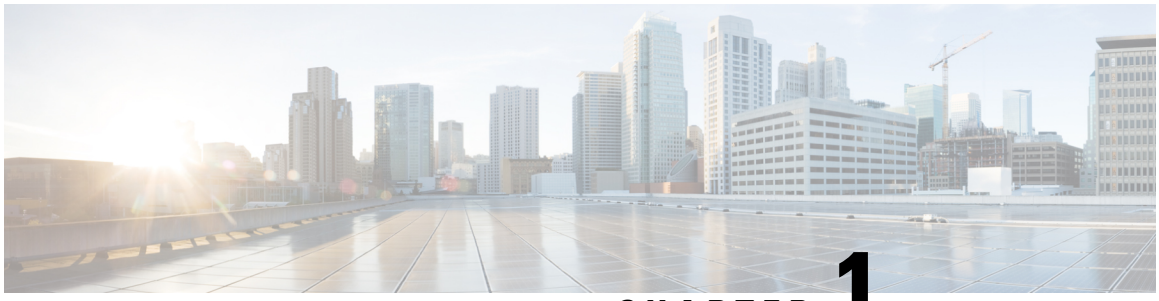
CHAPTER 3 **Mount the Chassis** 27

- Unpack and inspect the chassis 27

Desktop-mount the chassis 28
Wall-mount the chassis 28
Rack mount the chassis with the 66-W power supply 31
Rack mount the chassis with the 150-W power supply 35

CHAPTER 4 **Connect to the Console Port** 41
Connect to the console port with Microsoft Windows 41
Connect to the console port with Mac OS X 43
Connect to the console port with Linux 43

CHAPTER 5 **Installation, Maintenance, and Upgrade** 45
Install the FIPS opacity shield 45



CHAPTER 1

Overview

- Features, on page 1
- Package contents, on page 3
- QR code sticker, on page 4
- Serial number and compliance label, on page 6
- Front panel, on page 6
- Rear panel, on page 7
- Management, console, USB, and network ports, on page 7
- Status LEDs, on page 9
- Hardware specifications, on page 12
- Product ID numbers, on page 13
- Power cord specifications, on page 14

Features

The Cisco Firepower 1010 and 1010E are a series of compact network security appliances that are supported by Cisco Secure Firewall Threat Defense and Cisco Secure Firewall ASA.

The following figure shows the Cisco Firepower 1010 and 1010E.

Figure 1: Cisco Firepower 1010 and 1010E



The following table lists the features for the Firepower 1010 and 1010E.

Table 1: Firepower 1010 and 1010E features

Feature	1010	1010E
Form factor	Compact, or 2 RU for the rack-mount shelf	
Mounting	• Desktop mount • Wall mount • Rack mount	
Airflow	Side-to-side No fan **Note** Because the Firepower 1010 and 1010E have no fan, the internal system temperature is significantly higher than the ambient temperature cited in the specifications.	
System memory	8-GB	
L2 switch	First supported in Firewall Threat Defense Version 6.5 and ASA Version 9.13	
Management port	One Gigabit Ethernet RJ-45 10/100/1000 BaseT	
Console port	One RJ-45 Use to access management through an external system	
USB Mini B port	One USB Mini B Use to access management through an external system	
USB port	One USB 3.0 Type A Use to attach an external device such as storage	
Network ports	Eight Gigabit Ethernet RJ-45 10/100/1000 BaseT **Note** You can use ports 7 and 8 as PoE+ ports. PoE+ is first supported in Firewall Threat Defense Version 6.5 and ASA Version 9.13.	Eight Gigabit Ethernet RJ-45 10/100/1000 BaseT
PoE+ ports	Ports 7 and 8 are PoE+ ports. PoE+ is first supported in Firewall Threat Defense Version 6.5 and ASA Version 9.13.	Not supported
Lock slot	Accepts a standard Kensington T-bar locking mechanism for securing the chassis	

Feature	1010	1010E
Reset button	A small recessed button that if pressed for longer than three seconds resets the chassis to its default state following the next reboot. Configuration variables are reset to factory default, but the flash is not erased and no files are removed.	
Power switch	No System power is controlled by the power cord; there is no power switch. To shut down the Firepower 1010 or 1010E, remove the AC power supply.	
Power cord socket	The chassis is powered on when you plug in the AC power supply.	
AC power supply	One external 150-W AC power supply There are 150 W of +12 VDC system power. **Note** PoE+ is first supported in Firewall Threat Defense Version 6.5 and ASA Version 9.13.	One external 66-W AC power supply There are 66 W of +12 VDC system power.
Storage	One 200-GB M.2 SATA SSD drive The drive is used by the software; there is no user access to the drive. The drive is not field-replaceable; you must return the chassis to Cisco for drive replacement.	
Rubber feet	Four rubber feet on the bottom of the chassis **Note** The rubber feet are needed for proper cooling. Do not remove them.	

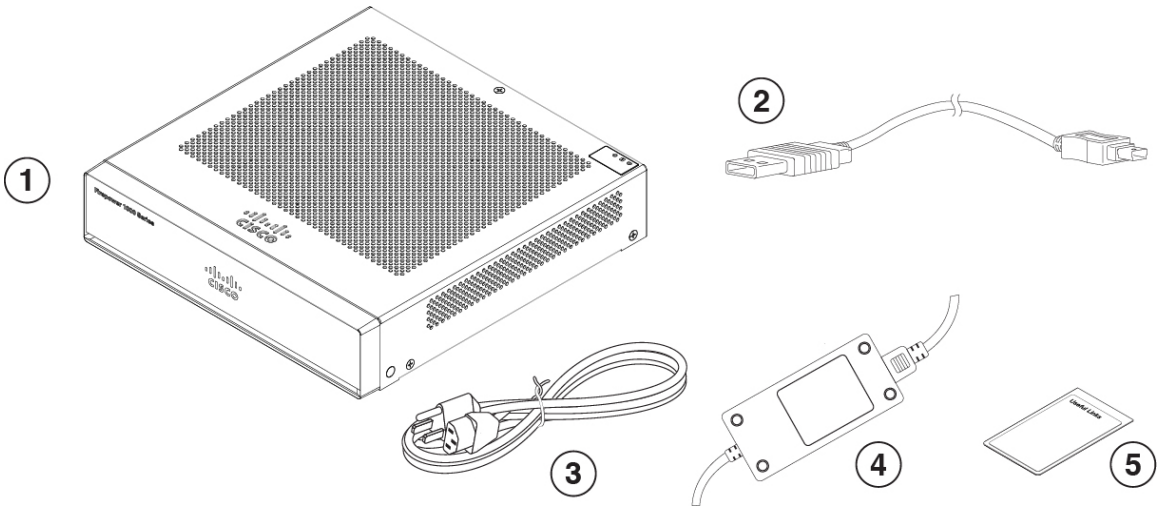
Related Topics

Management, console, USB, and network ports, on page 7
Hardware specifications, on page 12
Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility

Package contents

The following figure shows the package contents for the Firepower 1010 and 1010E. Note that the contents are subject to change and your exact contents might contain additional or fewer items.

Figure 2: Firepower 1010 and 1010E package contents



1	Chassis	**2**	USB console cable (Type A to Mini Type B) Part number 37-1977-01 Optional; in package if ordered
3	Country-specific power cord Optional; in package if ordered	**4**	Power supply
5	*Cisco Secure Firepower 1010* This document has a URL and QR code that point to the Digital Documentation Portal. The portal contains links to the product information page, the hardware installation guide, the regulatory and safety information guide, the getting started guide, and the zero-touch provisioning guide.		—

Related Topics

Power cord specifications, on page 14

QR code sticker

The QR code sticker on the rear panel of the chassis points to the easy deployment guide document that explains zero-touch provisioning. Zero-touch provisioning allows anyone to connect a new Firepower 1010 to a network so that the IT department can on board the device to Security Cloud Control and configure it remotely.

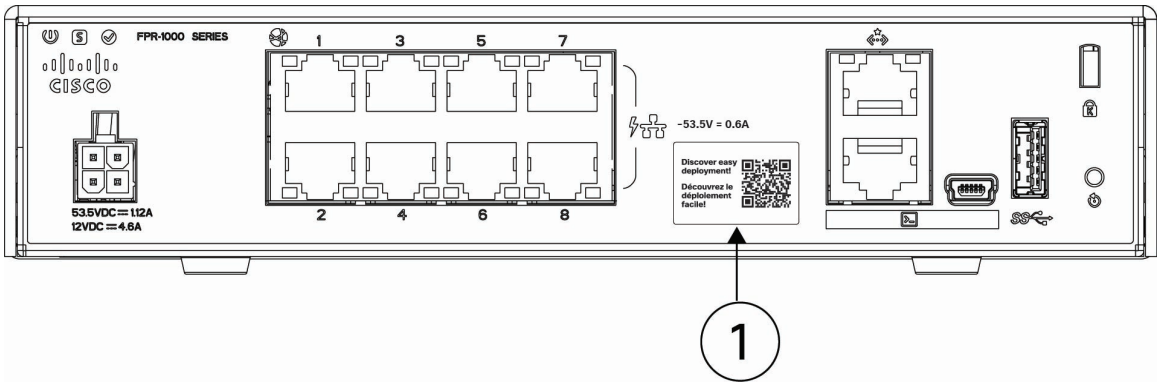
The following figure shows the QR code sticker.

Figure 3: QR code sticker



The following figure shows the placement of the QR code sticker on the rear panel of the chassis.

Figure 4: Firepower 1010 and 1010E QR code sticker



1	QR code sticker		—

Related Topics

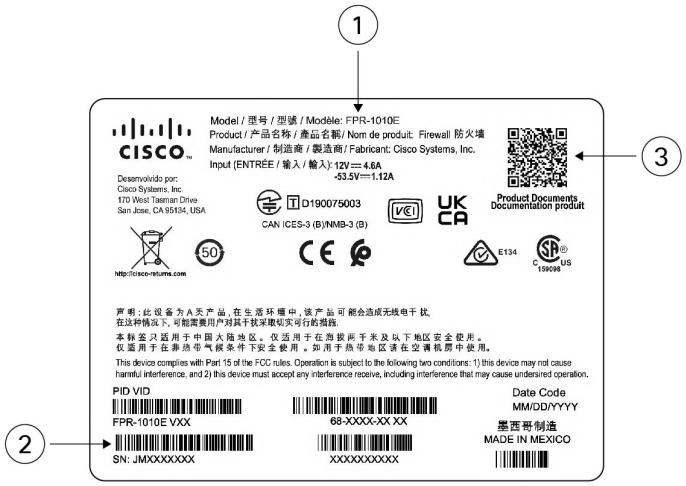
Easy Deployment for Cisco Secure Firewall Threat Defense Using Security Cloud Control

Serial number and compliance label

The compliance label on the bottom of the chassis contains the chassis serial number, regulatory compliance marks, and the Digital Documentation Portal QR code that points to the getting started guide, the regulatory and compliance guide, the zero-touch provisioning guide, and the hardware installation guide.

The following figure shows an example compliance label found on the bottom of the chassis.

Figure 5: Compliance label on the chassis

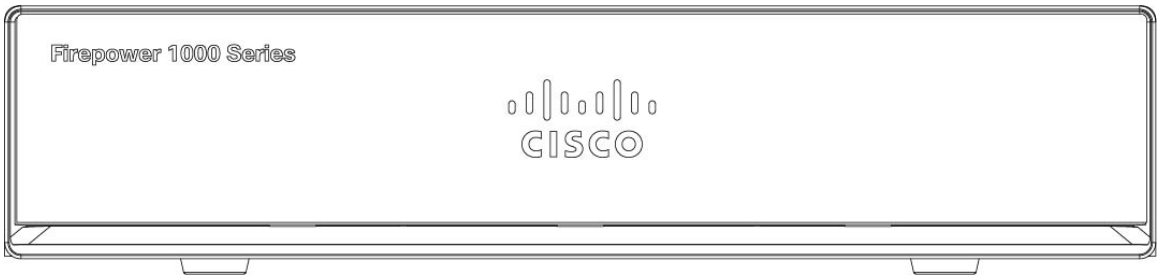


1	Chassis model number	**2**	Chassis serial number
3	Digital Documentation Portal QR code		—

Front panel

The following figure shows the front panel of the Firepower 1010 and 1010E. Note that there are no connectors or LEDs on the front panel.

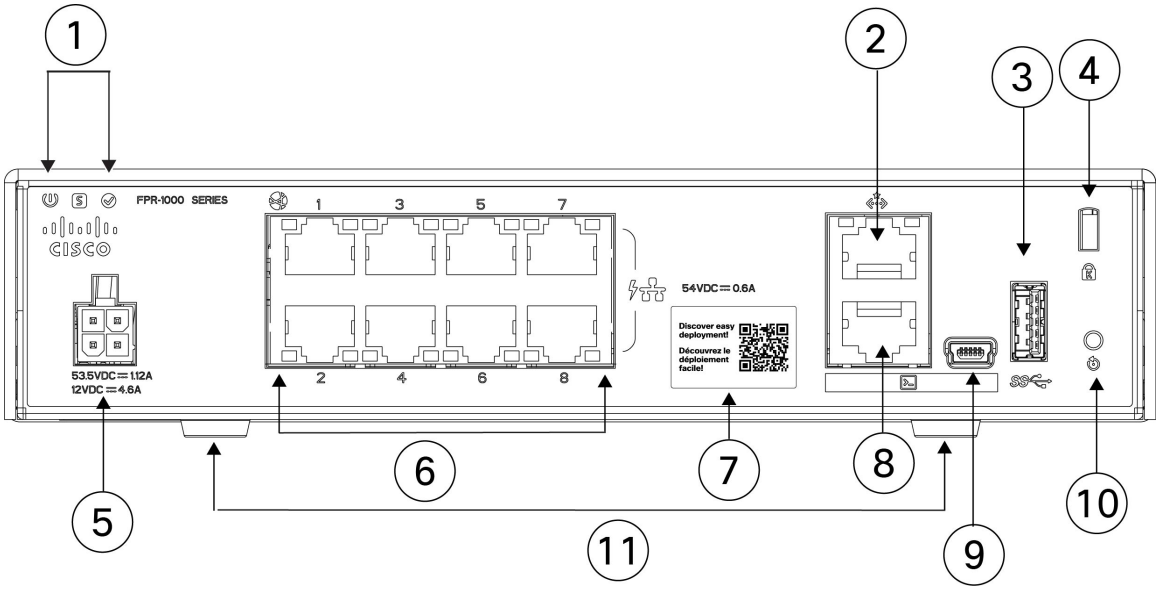
Figure 6: Firepower 1010 and 1010E front panel



Rear panel

The following figure shows the rear panel of the Firepower 1010 and 1010E.

Figure 7: Firepower 1010 and 1010E rear panel



1	Status LEDs	**2**	Management port
3	USB Type A port	**4**	Kensington lock slot
5	Power cord socket	**6**	Network data ports
7	QR code label	**8**	Console port
9	USB Mini B port	**10**	Reset button
11	Rubber feet		—

Related Topics

Status LEDs, on page 9

Management, console, USB, and network ports

Management port

The Firepower 1010 and 1010E have one Gigabit Ethernet RJ-45 10/100/1000 BaseT management port. It is restricted to network management access. To access the management port, connect with an RJ-45 cable.

Console ports

The chassis has two external console ports, a standard RJ-45 port and a USB Mini B serial port. Only one console port can be active at a time. When a cable is plugged into the USB console port, the RJ-45

port becomes inactive. Conversely, when the USB cable is removed from the USB port, the RJ-45 port becomes active. The console ports do not have any hardware flow control. You can use the CLI to configure the chassis through either serial console port by using a terminal server or a terminal emulation program on a computer.

Caution To avoid having the Firepower 1010 and 1010E not fully reload after a reboot, do not leave the console cable half-way disconnected. Either have the console cable connected on both ends or not connected at all.

- RJ-45 (8P8C) port—Supports RS-232 signaling to an internal UART controller. The RJ-45 console port does not support a remote dial-in modem. You can use a standard management cable (Cisco part number 72-3383-01) to convert the RJ45-to-DB9 connection if necessary.
- USB Mini B port—Lets you connect to a USB port on an external computer. For Linux and Macintosh systems, no special driver is required. For Windows systems, you must download and install a USB driver (available on software.cisco.com). You can plug and unplug the USB cable from the console port without affecting Windows HyperTerminal operations. We recommend shielded USB cables with properly terminated shields. Baud rates for the USB console port are 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.

Note For Windows operating systems, you must install a Cisco Windows USB Console Driver on any PC connected to the console port before using the USB console port.

USB Type A port

The chassis contains a standard USB 3.0 Type A port for an external USB drive that you can use for the startup image, configuration, backup and other standard uses for flash storage.

- Supports EXT2/3/4 or VFAT/FAT32 format
- Identified as the following drive ID depending on the CLI:
  - FxOS local-mgmt—usbdrive:
  - FxOS—usbA:
  - ASA and Firewall Threat Defense—disk1:
  - ROMMON—usb:
- Output power of 5 volts, up to a maximum of 1 A (5 USB power units)

The Type A USB port does *not* support Cisco Secure Package (CSP) image upload support.

Network ports

The chassis has eight Gigabit Ethernet RJ-45 10/100/1000 BaseT ports. The ports are numbered (from top to bottom, left to right) 1, 2, 3, 4, 5, 6, 7, 8. Each port includes a pair of LEDs, one each for connection status and link status. The ports are named and numbered Gigabit Ethernet 1/1 through Gigabit Ethernet 1/8.

Each RJ-45 (8P8C) copper port supports auto Medium Dependent Interface Crossover (MDI/X) as well as auto-negotiation for interface speed, duplex, and other negotiated parameters, and are MDI/X-compliant.

PoE+ ports

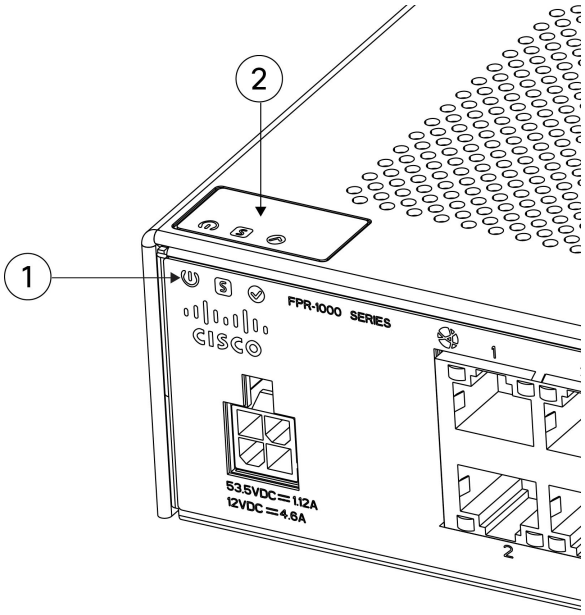
The Firepower 1010 supports PoE+. You can use ports 7 and 8 as PoE+ ports.

Status LEDs

Facing the rear of the chassis, the LEDs are located on the top left edge (facing the front of the chassis, they are in the back right corner of the top). The network port LEDs are at the top sides of each network port.

The following figure shows the status LEDs on the rear panel and on the cover of the chassis.

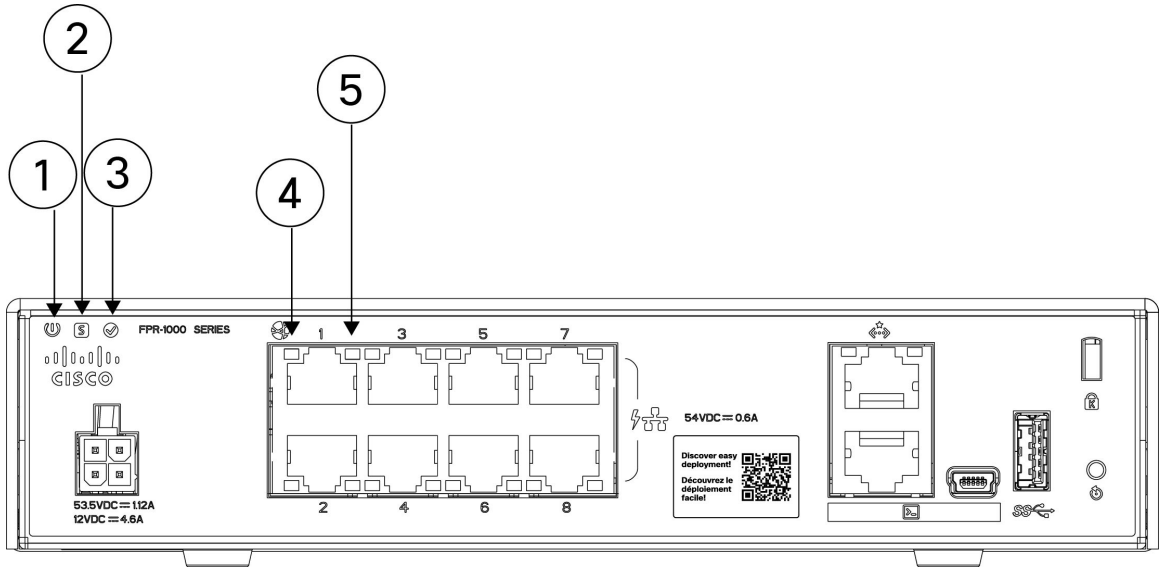
Figure 8: Status LEDs



1	Power, Status, and Active LEDs on rear of chassis	**2**	Power, Status, and Active LEDs on top of chassis

The following figure shows all of the LEDs on the rear panel of the Firepower 1010 and 1010E and describes their states.

Figure 9: Rear panel LEDs



1	**Power**
	Power supply status:
	• Off —Power supply off.
	• Green—Power supply on.
		2	**Status**
			System operating status:
			• Off—System has not booted up yet.
			• Green, flashing quickly—System is booting up.
			• Green—Normal system function.
			• Amber—Critical alarm indicating one or more of the following:
			  • Major failure of a hardware or software component.
			  • Over-temperature condition.
			  • Power voltage outside the tolerance range.
			• Green, flashing slowly (twice in 5 seconds)—Cloud connected.
			Note
			Security Cloud Control is valid for threat defense 6.7 and later.
			• Green and amber, flashing—Cloud connection failure.
			• Green—Cloud disconnected.
			Note
			The Security Cloud Control LED pattern applies to zero-touch provisioning.

3	**Active** Status of the failover pair: • Off— Failover is not operational. • Green—Failover pair operating normally. The LED is green always unless the chassis in a high availability pair. • Amber—When the chassis is in a high availability pair, the LED is amber for the standby unit.	4	**Network** Status of the network ports. Link status (L): • Off—No link, or port is not in use. • Green—Link established. • Green, flashing—Link activity.

5	**Network** Status of the network ports. Connection-speed status (S): • Green, flashing—One flash every three seconds = 10 Mbps. • Green, flashing—Two rapid flashes = 100 Mbps. • Green, flashing—Three rapid flashes = 1000 Mbps.		—

Related Topics

Easy Deployment Guide for Cisco Secure Firewall Threat Defense with Cisco Security Cloud Control

Hardware specifications

The following table contains hardware specifications for the Firepower 1010 and 1010E.

Table 2: Firepower 1010 and 1010E hardware specifications

	1010	**1010E**
Chassis dimensions (H x W x D)	1.82 x 7.85 x 8.07 inches (4.62 x 19.94 x 20.50 cm)	
Rack-mount shelf dimensions (H x W x D)	3.06 x 17.40 x 19.70 inches (7.77 x 44.2 x 50.04 cm) for the 115-W and 66-W power supplies 3.06 x 17.40 x 21.65 inches (7.77 x 44.2 x 54.99 cm) for the 150 -W power supply	
Chassis weight	3 lb (1.36 kg)	
System power	30 W Not including any PoE devices connected to the chassis. 55 W is the maximum power for the power supply and 60 W of PoE+ power. **Note** PoE+ is first supported in Firewall Threat Defense Version 6.5 and ASA Version 9.13.	30 W

	1010	1010E
Temperature	Operating: 32 to 104°F (0 to 40°C) Derate the maximum operating temperature 1.5° C per 1000 ft above sea level. Nonoperating: -13 to 158°F (-25 to 70°C) maximum altitude is 40,000 ft **Note** Because the Firepower 1010 and 1010E have no fan, the internal system temperature is significantly higher than the operating temperature.	
Humidity	Operating: 90% Nonoperating: 10 to 90%	
Altitude	Operating: 0 to 9843 (3000 m) Nonoperating: 0 to 15,000 ft (4570 m)	
Acoustic noise	0 dBa	

Product ID numbers

The following table lists the field-replaceable PIDs associated with the Firepower 1010E and 1010. The spare components are ones that you can order and replace yourself. If any internal components fail, you must get a return material authorization (RMA) for the entire chassis.

Note See the **show inventory** command to display a list of the PIDs for your Firepower 1010 and 1010E.

Table 3: Firepower 1010 and 1010E PIDs

PID	Description
FPR1010-ASA-K9	Cisco Firepower 1010 ASA desktop appliance
FPR1010E-ASA-K9	Cisco Firepower 1010E ASA desktop appliance
FPR1010-NGFW-K9	Cisco Firepower 1010 NGFW desktop appliance
FPR1010E-NGFW-K9	Cisco Firepower 1010E NGFW desktop appliance
FPR1K-DT-ACY-KIT	Cisco Firepower 1010 and 1010E accessory kit
PWR-DT-150W-AC	Cisco Firepower 1010 150-W AC power supply
PWR-DT-150W-AC=	Cisco Firepower 1010 150-W AC power supply (spare)
PWR-DT-66WAC	Cisco Firepower 1010E 66-W AC power supply

PID	Description
PWR-DT-66WAC=	Cisco Firepower 1010E 66-W AC power supply (spare)
FPR1K-DT-RACK-MNT=	Cisco Firepower 1010E rack-mount kit to be used with the 66-W AC power supply (spare)
FPR1010-RACK-MNT=	Cisco Firepower 1010 rack-mount kit to be used with the 150-W AC power supply (spare)
FPR1K-DT-WALL-MNT=	Cisco Firepower 1010 and 1010E wall-mount kit (spare)
FPR1K-DT-FIPS-KIT=	Cisco Firepower 1010 FIPS kit (spare)

Related Topics

Cisco Returns Portal
Cisco Secure Firewall Threat Defense Command Reference
Cisco Secure Firewall ASA Series Command Reference, S Commands

Power cord specifications

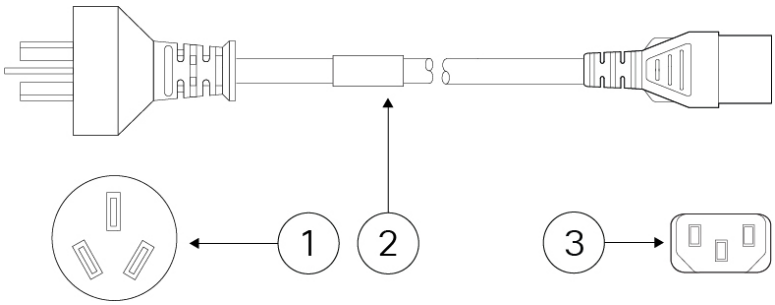
The following C13-type power cords support the 66-W (PWR-DT-66WAC) and 150-W (PWR-DT-150W-AC) power supplies. Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to the security appliance. The jumper power cords for use in racks are available as an optional alternative to the standard power cords.

If you do not order the optional power cord with the system, you are responsible for selecting the appropriate power cord for the product. Using a incompatible power cord with this product may result in electrical safety hazard.

Note Only the approved power cords or jumper power cords provided with the chassis are supported.

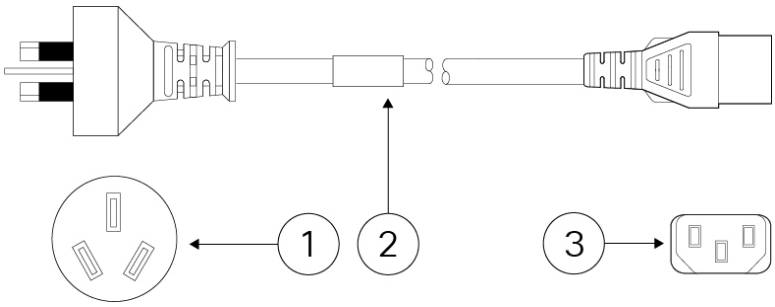
The following power cords are supported.

Figure 10: Argentina (CAB-ACR)



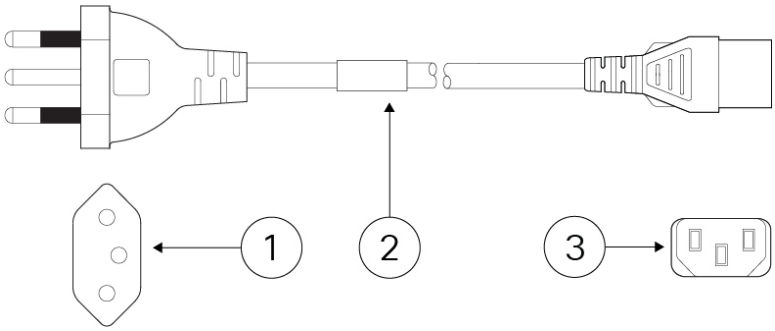
1	Plug: VA2073	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 11: Australia/New Zealand (CAB-ACA)



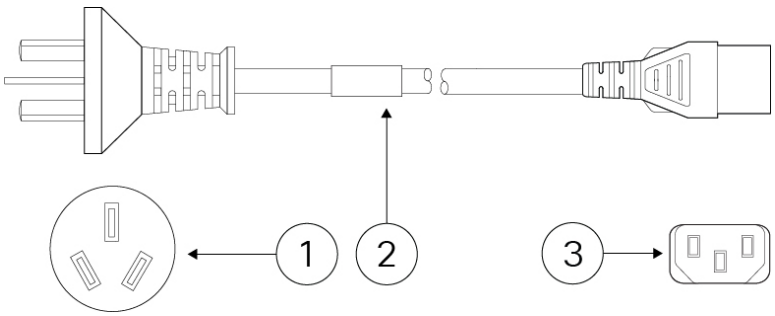
1	Plug: AU10LS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 12: Brazil (CAB-C13-ACB)



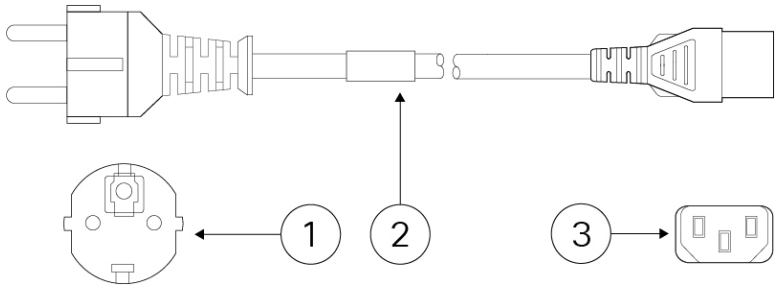
1	Plug: NBR 14136	**2**	Cord set rating: 10 A, 250 V
3	Connector: EL 701B (EN 60320/C13)		—

Figure 13: China (CAB-ACC)



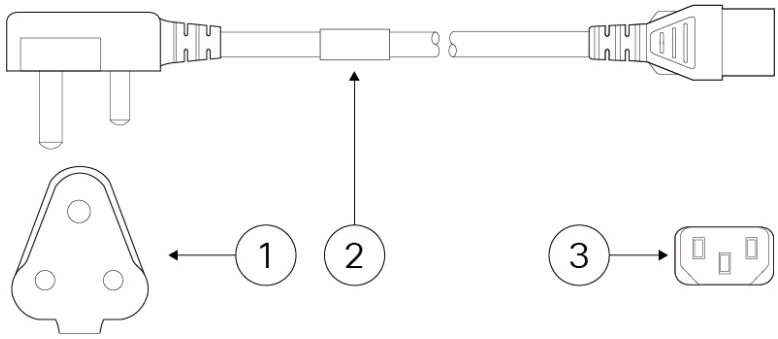
1	Plug: V3203C	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 14: Europe (CAB-ACE)



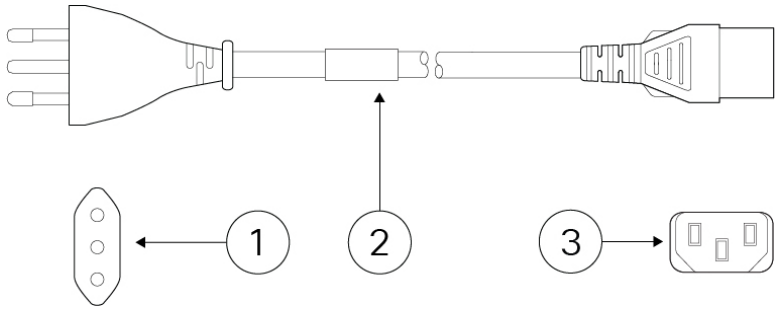
1	Plug: M2511	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625		—

Figure 15: India (CAB-IND-10A)



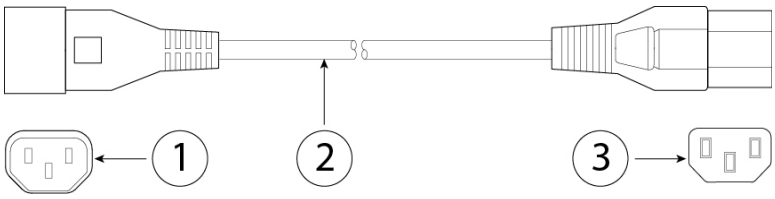
1	Plug: IA16A3-C	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625BS-E		—

Figure 16: Italy (CAB-ACI)



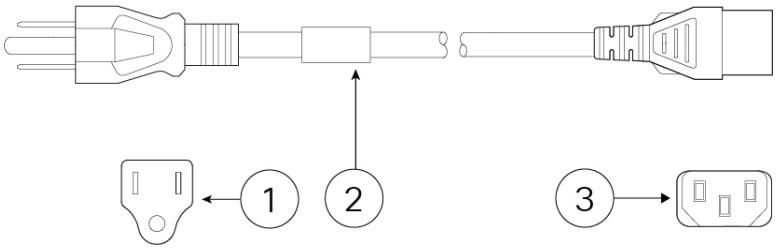
1	Plug: IT10S3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 17: Japan (CAB-C13-C14-2M-JP) PSE mark



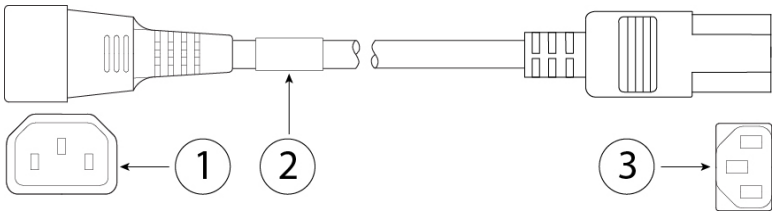
1	IEC 60320-2-2/E	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		Cord length: 2 m

Figure 18: Japan (CAB-JPN-3PIN)



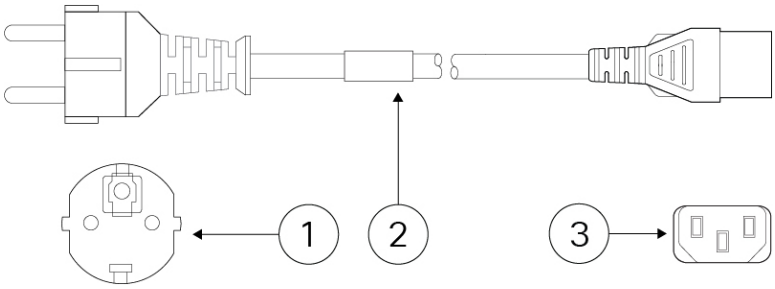
1	Plug: M744	**2**	Cord set rating: 12 A, 125 V
3	Connector: V1625		—

Figure 19: Jumper (CAB-C13-C14-2M)



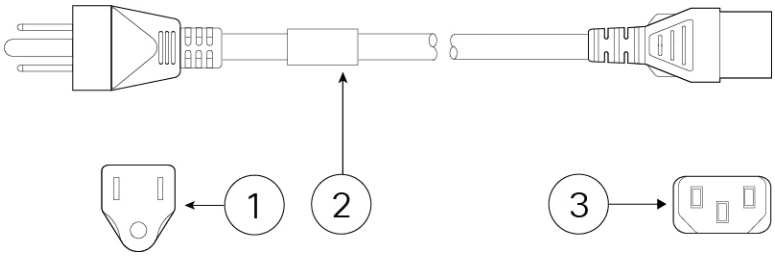
1	IEC 60320/C14G	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		Cord length: 2.5 m

Figure 20: Korea (CAB-AC-C13-KOR)



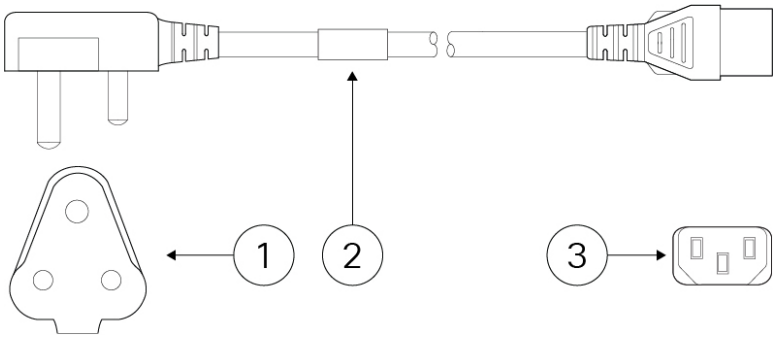
1	Plug: M2511	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 21: North America (CAB-AC)



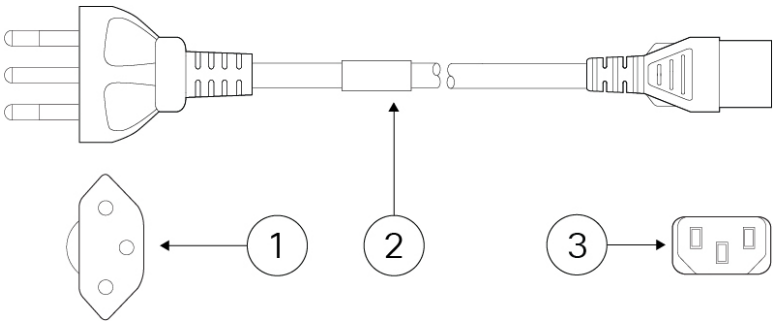
1	Plug: PS204	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		

Figure 22: South Africa (AIR-PWR-CORD-SA)



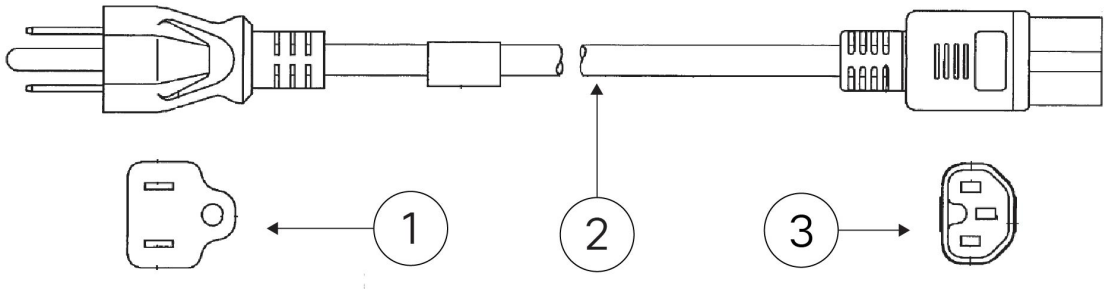
1	Plug: SA16A	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 23: Switzerland (CAB-ACS)



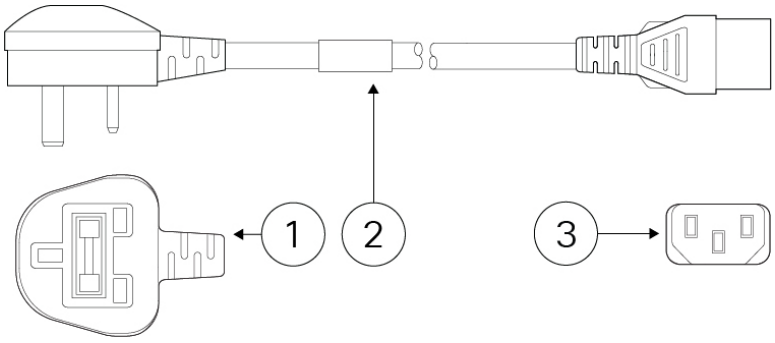
1	Plug: SW10ZS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 24: Taiwan (CAB-AC-TAI)

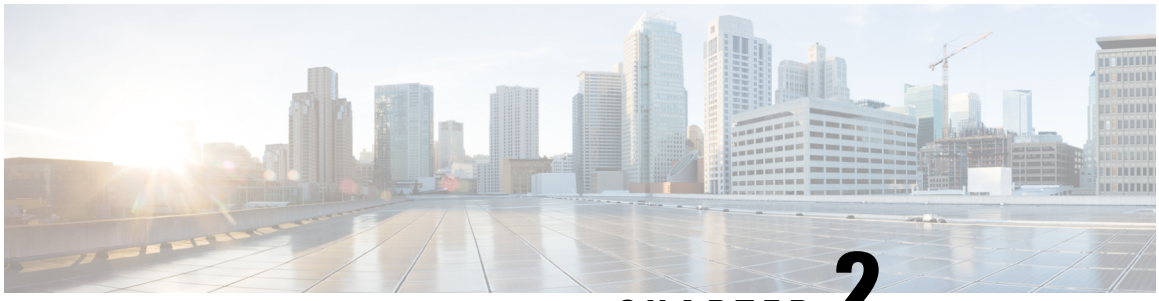


1	Plug: CNS 10917-2	**2**	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C15		—

Figure 25: United Kingdom (CAB-ACU)



1	Plug: 3P BS 1363	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—



CHAPTER 2

Installation Preparation

- Installation warnings, on page 21
- Position the chassis, on page 23
- Safety recommendations, on page 24
- Maintain safety with electricity, on page 24
- Prevent ESD damage, on page 25
- Site environment, on page 25
- Site considerations, on page 25
- Power supply considerations, on page 26
- Rack configuration considerations, on page 26

Installation warnings

Read the regulatory and compliance document before installing the chassis.

Take note of the following warnings:



Warning **Statement 1071—**Warning Definition

IMPORTANT SAFETY INSTRUCTIONS

Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Read the installation instructions before using, installing, or connecting the system to the power source. Use the statement number at the beginning of each warning statement to locate its translation in the translated safety warnings for this device.

SAVE THESE INSTRUCTIONS





Warning **Statement 1005**—Circuit Breaker

This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 20 A, 120 V, and 16 A, 250 V



Warning **Statement 1015**—Battery Handling

To reduce risk of fire, explosion or leakage of flammable liquid or gas:

- Replace the battery only with the same or equivalent type recommended by the manufacturer.
- Do not dismantle, crush, puncture, use sharp tool to remove, short external contacts, or dispose of in fire.
- Do not use if battery is warped or swollen.
- Do not store or use battery in a temperature > 60° C.
- Do not store or use battery in low air pressure environment < 69.7 kPa.



Warning **Statement 1017—**Restricted Area

This unit is intended for installation in restricted access areas. Only skilled, instructed, or qualified personnel can access a restricted access area.



Warning **Statement 1024—**Ground Conductor

This equipment must be grounded. To reduce the risk of electric shock, never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.



Warning **Statement 1029—**Blank Faceplates and Cover Panels

Blank faceplates and cover panels serve three important functions: they reduce the risk of electric shock and fire, they contain electromagnetic interference (EMI) that might disrupt other equipment, and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.

Warning **Statement 1074—**Comply with Local and National Electrical Codes

To reduce risk of electric shock or fire, installation of the equipment must comply with local and national electrical codes.

Warning **Statement 9001—**Product Disposal

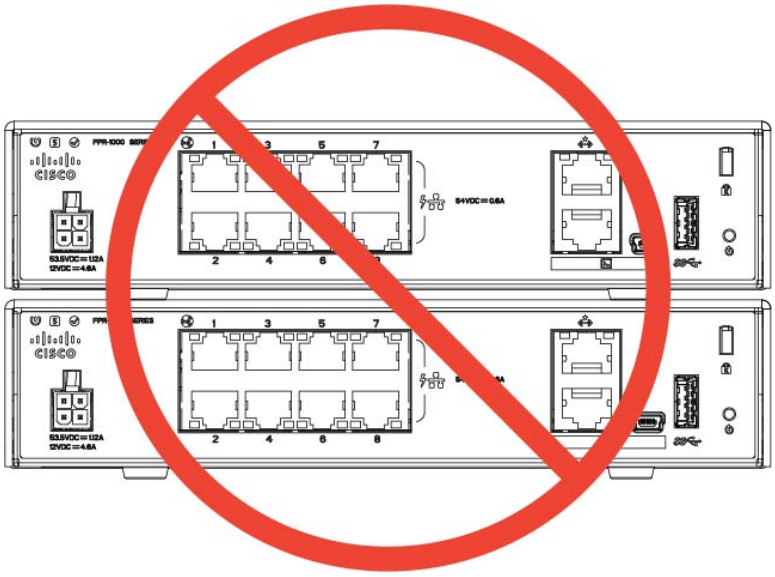
Ultimate disposal of this product should be handled according to all national laws and regulations.

Related Topics

Regulatory Compliance and Safety Information

Position the chassis

Figure 26: Do not stack the chassis



Caution Do not stack the chassis on top of another chassis. If you stack the units, they will overheat, which causes the units to power cycle.

Whether positioning the chassis on a desktop, on a closet shelf, or mounting it on a wall, consider the following:

- Be sure to choose an area where the chassis is out of the way to make sure it is not bumped or accidentally dislodged. The chassis has feet on the bottom so it does not sit flush where placed, thus allowing proper air circulation through and around it. Make sure that the chassis is not tightly enclosed or crowded by other objects that might impede proper circulation.

- Choose a location that lets you easily bring the power cord and Ethernet and console cables to the chassis, with plenty of slack and yet tucked away, so they cannot be inadvertently unplugged.

Related Topics

Desktop-mount the chassis, on page 28

Safety recommendations

Observe these safety guidelines:

- Keep the area clear and dust free before, during, and after installation.
- Keep tools away from walkways, where you and others might trip over them.
- Do not wear loose clothing or jewelry, such as earrings, bracelets, or chains that could get caught in the chassis.
- Wear safety glasses if you are working under any conditions that might be hazardous to your eyes.
- Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.
- Never attempt to lift an object that is too heavy for one person.

Maintain safety with electricity



Warning Before working on a chassis, be sure the power cord is unplugged.

Read the regulatory and compliance information document before installing the chassis.

Follow these guidelines when working on equipment powered by electricity:

- Before beginning procedures that require access to the interior of the chassis, locate the emergency power-off switch for the room in which you are working. Then, if an electrical accident occurs, you can act quickly to turn off the power.
- Do not work alone if potentially hazardous conditions exist anywhere in your work space.
- Never assume that power is disconnected; always check.
- Look carefully for possible hazards in your work area, such as moist floors, ungrounded power extension cables, frayed power cords, and missing safety grounds.
- Use the chassis within its marked electrical ratings and product usage instructions.
- The chassis is equipped with an AC-input power supply, which is shipped with a three-wire electrical cord with a grounding-type plug that fits into a grounding-type power outlet only. Do not circumvent this safety feature. Equipment grounding should comply with local and national electrical codes.

Related Topics

Regulatory and Compliance Information

Prevent ESD damage

ESD occurs when electronic components are improperly handled, and it can damage equipment and impair electrical circuitry, which can result in intermittent or complete failure of your equipment.

Always follow ESD-prevention procedures when removing and replacing components. Ensure that the chassis is electrically connected to an earth ground. Wear an ESD-preventive wrist strap, ensuring that it makes good skin contact. Connect the grounding clip to an unpainted surface of the chassis frame to safely ground ESD voltages. To properly guard against ESD damage and shocks, the wrist strap and cord must operate effectively. If no wrist strap is available, ground yourself by touching the metal part of the chassis.

For safety, periodically check the resistance value of the antistatic strap, which should be between one and 10 megohms.

Site environment

You can place the chassis on a desktop, on the wall, or in a rack. The location of the chassis and the layout of the equipment rack or wiring room are extremely important for proper system operation. Placing equipment too close together with inadequate ventilation and inaccessible panels can cause system malfunctions and shutdowns. Improper placement can also make it difficult for you to access the chassis for maintenance.



Warning Under no circumstances should you stack one chassis on top of one another. This disrupts cooling air flow to the chassis and causes damage to the hardware.

To avoid equipment failures and reduce the possibility of environmentally caused shutdowns, plan the site layout and equipment locations carefully. If you are currently experiencing shutdowns or unusually high error rates with your existing equipment, these considerations may help you isolate the cause of failures and prevent future problems.

Related Topics

Hardware specifications, on page 12

Site considerations

Considering the following helps you plan an acceptable operating environment for the chassis, and avoid environmentally-caused equipment failures.

- Electrical equipment generates heat. Ambient air temperature might not be adequate to cool equipment to acceptable operating temperatures without adequate circulation. Make sure that the room in which you operate your system has adequate air circulation.
- Ensure that the chassis cover is secure. The chassis is designed to allow cooling air to flow effectively within it. An open chassis allows air leaks, which may interrupt and redirect the flow of cooling air from the internal components.
- Always follow ESD-prevention procedures to avoid damage to equipment. Damage from static discharge can cause immediate or intermittent equipment failure.

Power supply considerations

When installing the chassis, consider the following:

- Check the power at the site before installing the chassis to ensure that it is free of spikes and noise. Install a power conditioner, if necessary, to ensure proper voltages and power levels in the appliance-input voltage.
- Install proper grounding for the site to avoid damage from lightning and power surges.
- The chassis does not have a user-selectable operating range. Refer to the label on the chassis for the correct appliance input-power requirement.
- Several styles of AC-input power supply cords are available for the chassis; make sure that you have the correct style for your site.
- Install an uninterruptible power source for your site, if possible.

Related Topics

Features, on page 1
Hardware specifications, on page 12

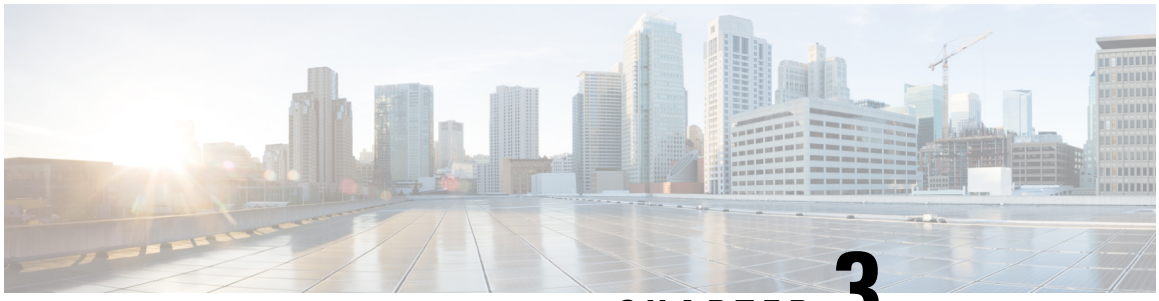
Rack configuration considerations

Consider the following when planning a rack configuration:

- If you are mounting a chassis in an open rack, make sure that the rack frame does not block the intake or exhaust ports.
- If your rack includes closing front and rear doors, the doors must have 65 percent open perforated area evenly distributed from top to bottom to permit adequate airflow.
- Be sure enclosed racks have adequate ventilation. Make sure that the rack is not overly congested as each chassis generates heat. An enclosed rack should have louvered sides and a fan to provide cooling air.
- In an enclosed rack with a ventilation fan in the top, heat generated by equipment near the bottom of the rack can be drawn upward and into the intake ports of the equipment above it in the rack. Ensure that you provide adequate ventilation for equipment at the bottom of the rack.
- Baffles can help to isolate exhaust air from intake air, which also helps to draw cooling air through the chassis. The best placement of the baffles depends on the airflow patterns in the rack. Experiment with different arrangements to position the baffles effectively.

Related Topics

Rack mount the chassis with the 66-W power supply, on page 31
Rack mount the chassis with the 150-W power supply , on page 35



CHAPTER 3

Mount the Chassis

- Unpack and inspect the chassis, on page 27
- Desktop-mount the chassis, on page 28
- Wall-mount the chassis, on page 28
- Rack mount the chassis with the 66-W power supply, on page 31
- Rack mount the chassis with the 150-W power supply , on page 35

Unpack and inspect the chassis

Note The chassis is thoroughly inspected before shipment. If any damage occurred during transportation or any items are missing, contact your customer service representative immediately. Keep the shipping container in case you need to send the chassis back due to damage.

Procedure

Step 1 Remove the chassis from its cardboard container and save all packaging material.

Step 2 Compare the shipment to the equipment list provided by your customer service representative. Verify that you have all items.

Step 3 Check for damage and report any discrepancies or damage to your customer service representative. Have the following information ready:

- Invoice number of shipper (see the packing slip)
- Model and serial number of the damaged unit
- Description of damage
- Effect of damage on the installation

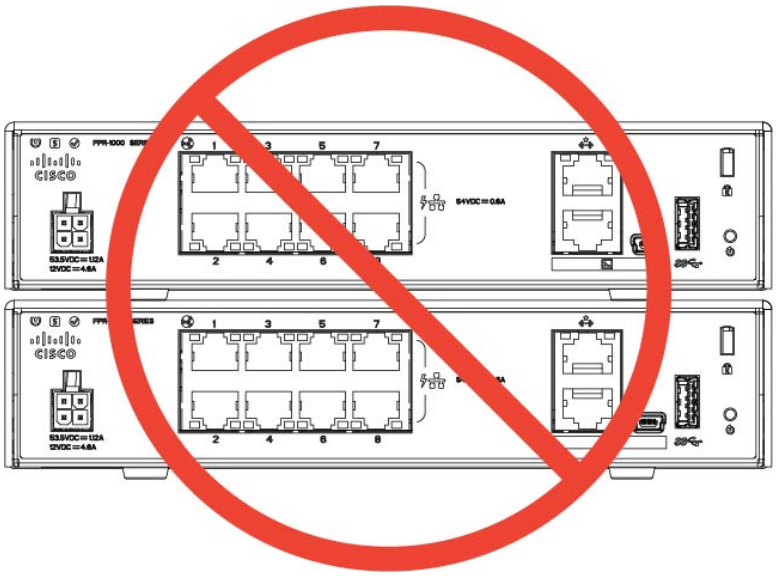
Related Topics

Package contents, on page 3

Desktop-mount the chassis

You can mount the chassis on a desktop by placing it on a desk in a horizontal position. Make sure there are no blockages or obstructions within one inch of the top of the chassis or within .5 inches of the sides and back, so that nothing interferes with cooling. Do not remove the rubber feet included with the chassis. They are also needed for proper cooling.

Figure 27: Desktop-mount the chassis



Caution Do not stack one chassis on top of another chassis. If you stack the units, they will overheat, which causes the units to power cycle.

What to do next

See Install the FIPS opacity shield , on page 45 if you need to install a FIPS opacity shield.

Install the cables according to your default software configuration as described in the Cisco Firepower 1010 Getting Started Guide.

Wall-mount the chassis

You can purchase an optional wall-mount kit. You can wall-mount the chassis left-, right-, or rear panel-side up. You can use the wall-mount bracket to mark the holes for mounting it on the wall. The wall-mount bracket is 7.682 x 6 inches. You need to make two level marks on the wall where you want to hang the chassis. For vertical orientation (rear panel up), the holes should be 6.826 inches apart. For side to side orientation, the holes should be 5.154 inches apart.

The wall-mount kit contains the following items:

- Wall-mount bracket

- Three Phillips M3 x 6-mm screws
- Two Phillips #6 x 1¼-inch screws
- One #8 wall anchor kit with screws

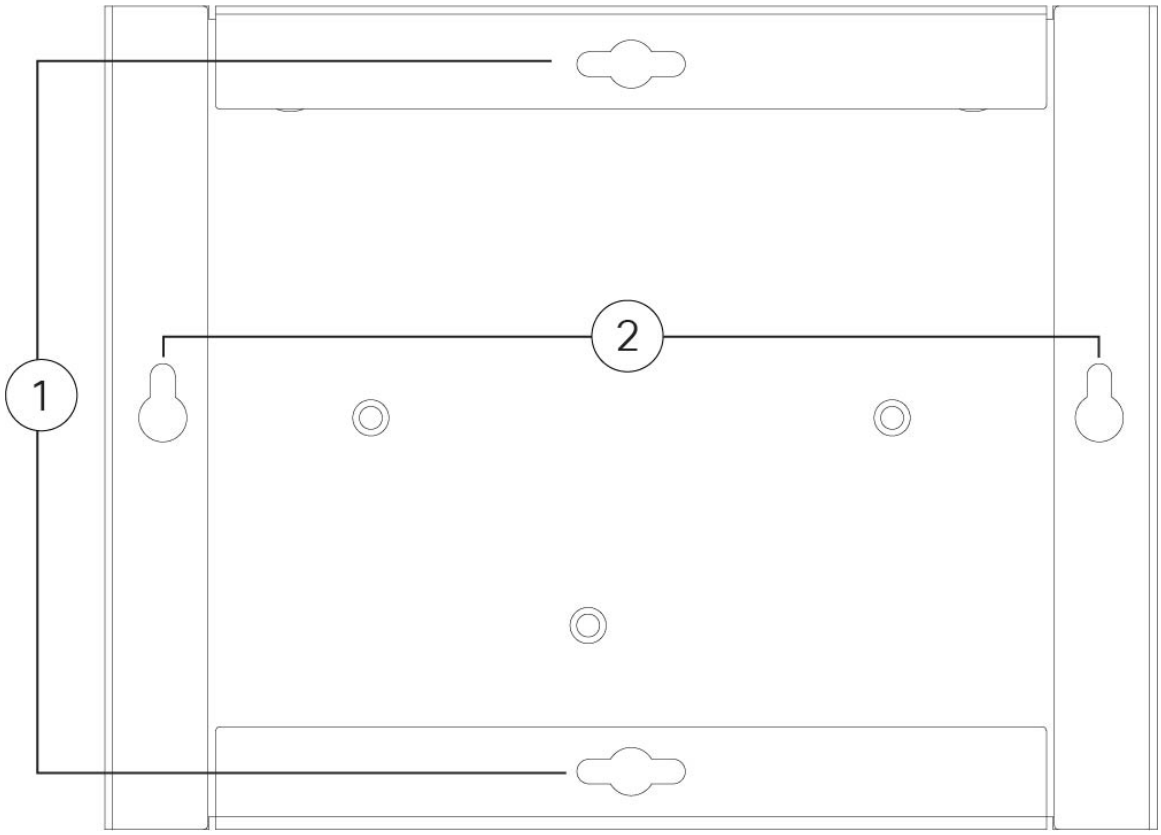
Follow these steps to mount your chassis on a wall.

Procedure

Step 1 Choose an orientation (left-, right-, or rear panel-side up) and a location on the wall for the chassis.

Step 2 Use a pencil, ruler, and level to mark locations for the two mounting screws (#6 x 1¼ inch). You can use the wall-mount bracket itself to mark either the top holes or the side holes.

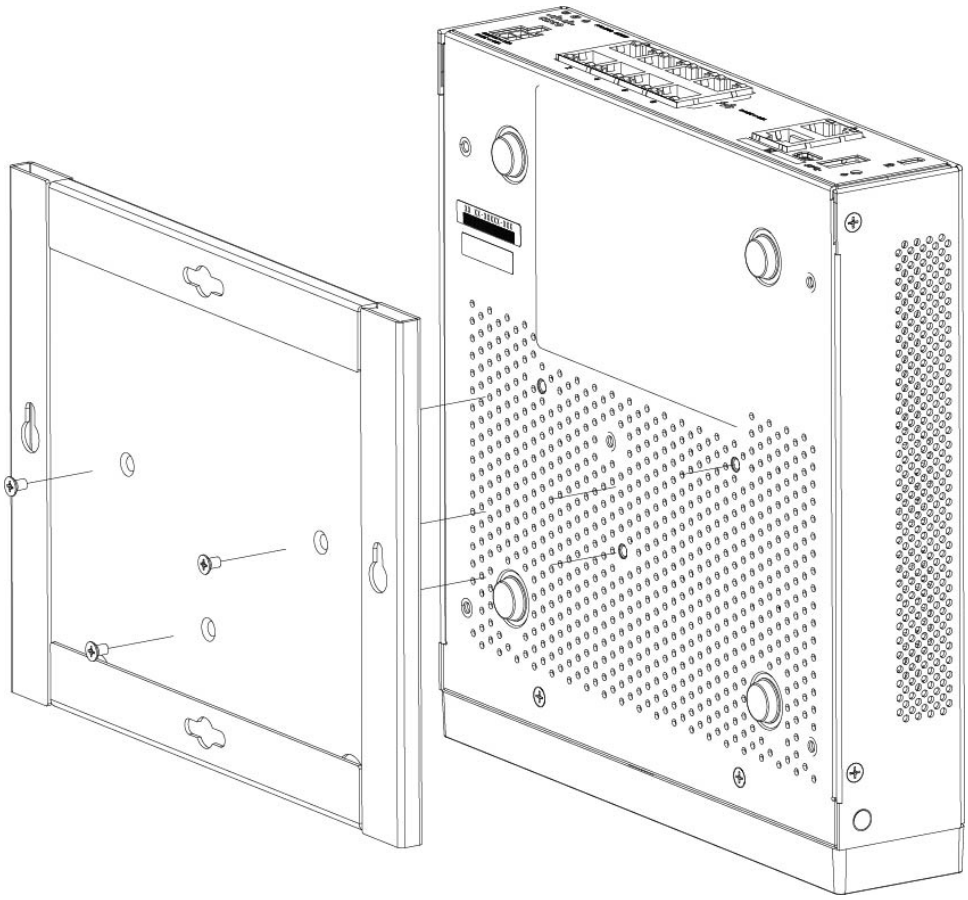
Figure 28: Wall-mount bracket



1	Horizontal mounting	**2**	Vertical mounting

Step 3 Attach the wall-mount bracket to the chassis using the three Phillips M3 x 6-mm screws.

Figure 29: Attach the wall-mount bracket to the chassis



Step 4 Use the two #6 x 1¼-inch screws to drill into a stud, or use the anchors (#8 wall screw) from the dry-wall kit to hang it into dry wall.

If you are mounting the chassis onto something other than drywall, such as wood or sheet metal, anchors may not be required.

Step 5 Drill a hole into the wall at each mark that you made in Step 2.

These holes should be slightly smaller in diameter than anchors if you are using them. The recommended drill hole size is 3/16 inches.

Step 6 Insert the anchors into the holes if needed, and be sure they are properly seated.

Step 7 Fasten each screw into its anchor until it protrudes about ¼ inch.

Step 8 Pick up the chassis, align the screws in the anchors with the holes in the bottom of the wall-mount bracket, move the chassis toward the wall until the screw heads are in the wall-mount bracket, and then slide it down until it rests on the screws.

Caution
Do not mount the chassis with the rear panel facing downward. This orientation is not supported.

Step 9 To uninstall the chassis from the wall mount, slide the wall-mounted chassis from the wall, and remove the three screws from the bottom of the chassis.

What to do next

If you are installing a FIPS cover on the chassis, follow the steps in Install the FIPS opacity shield , on page 45.

Install the cables according to your default software configuration as described in the Cisco Firepower 1010 Getting Started Guide.

Rack mount the chassis with the 66-W power supply

Caution This rackmount shelf procedure is for the 1010E with the 66-W power supply.

The rackmount shelf fits into a 2 RU rack. The rackmount shelf is 3.06 x 17.40 x 19.70 inches (H x W x D). The rackmount kit contains the following items:

Note There are two sets of four screws that you can use to secure the chassis to your rack. Chose the screws that fit your rack.

- Rackmount shelf
- Two sliding rack trays
- Six Phillips M3 x 0x7-mm screws; use these screws to install the cable guides and to secure the rackmount shelf onto the chassis.
- Four Phillips 12-24 x 0.75-inch screws; depending on your rack type, use these screws to secure the sliding rack tray to your rack.
- Four Phillips 10-32 x 0.75-inch screws; depending on your rack type, use these screws to secure the sliding rack tray to your rack.

Procedure

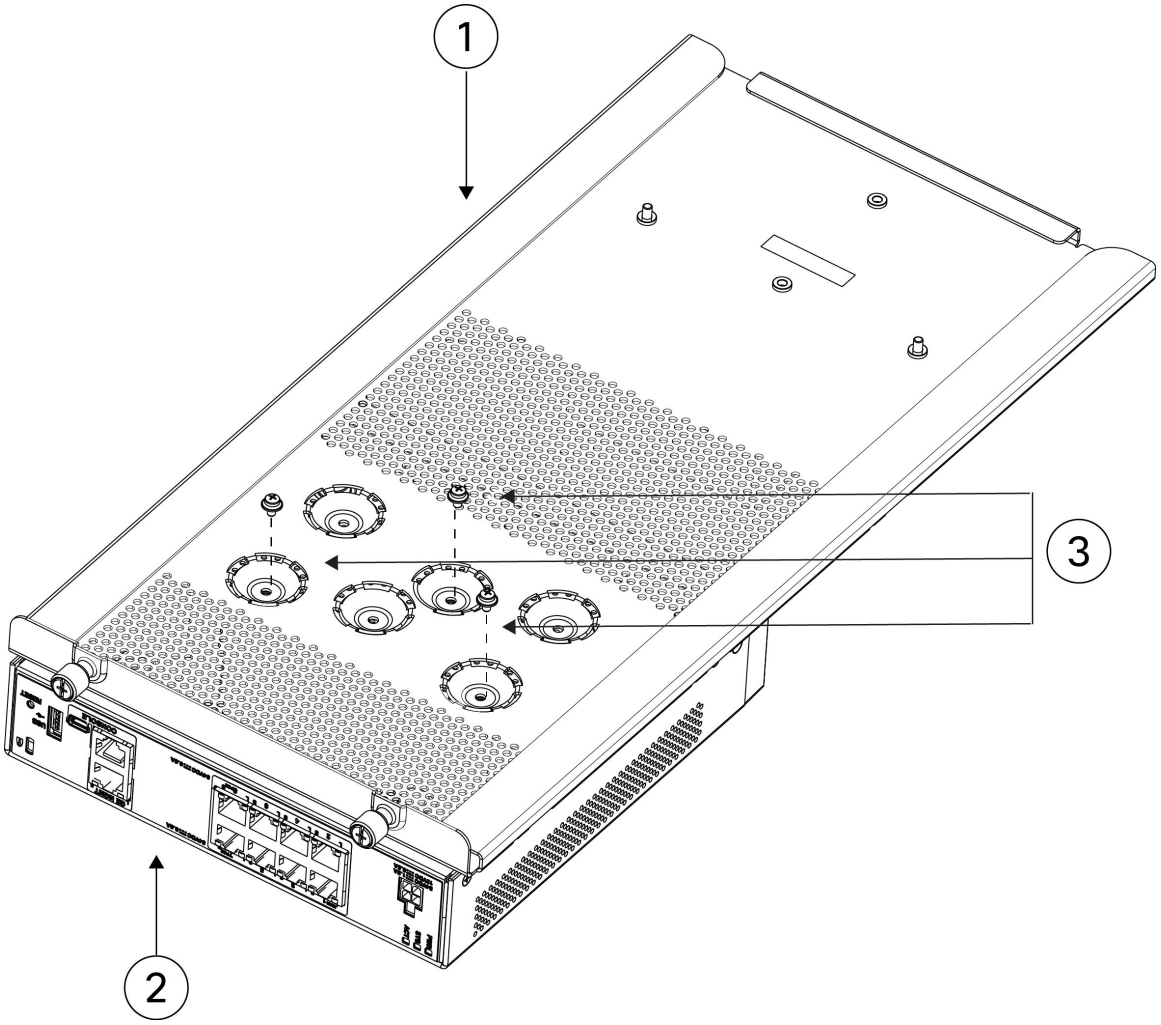
Step 1 Place the chassis with the top facing down on a large, stable work area.

Step 2 Invert the sliding rack tray and position it on the chassis. You can mount the chassis with the front or rear panel facing front.

Step 3 Adjust the position of the chassis and the sliding rack tray until the three mounting holes in the dimples in the bottom of the sliding rack tray are aligned with the mounting holes in the bottom of the chassis.

Step 4 Tighten the captive screws to lock the chassis into place on the sliding rack tray.

Figure 30: Install the sliding rack tray on the chassis



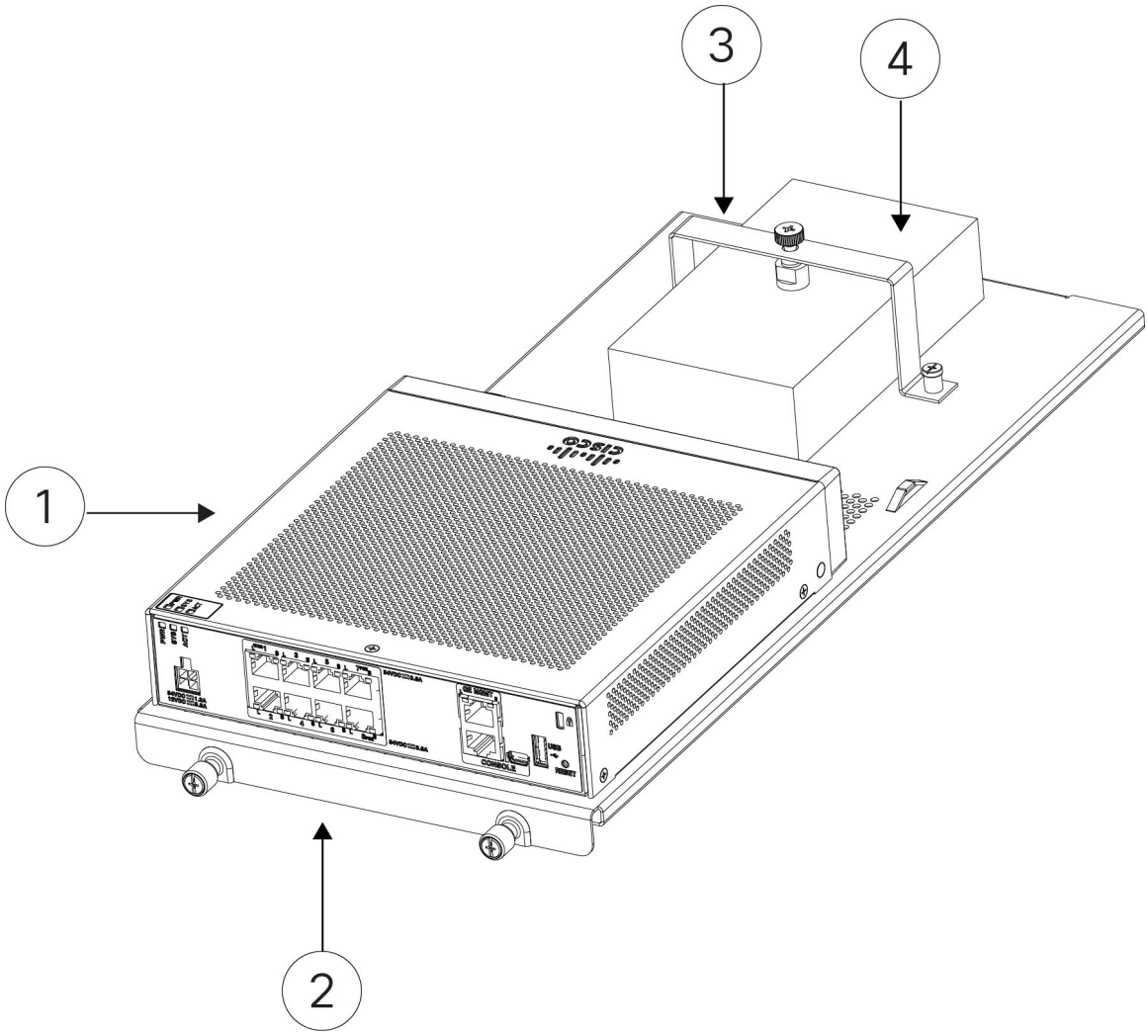
1	Sliding rack tray	**2**	Chassis rear panel (I/O side) upside down
3	Power supply securing bracket	**4**	Power supply

Step 5 Carefully turn the sliding rack tray right-side up.

Step 6 Install the power supply and bracket behind the chassis. Tighten the three screws on the bracket to secure it to the sliding rack tray. You can tighten the thumb screw on the top of the bracket to secure the power supply. The bracket flexes when the power supply is properly secured.

Caution
If you are using a torque screw driver or drill do not use more than 4 in-lbs.

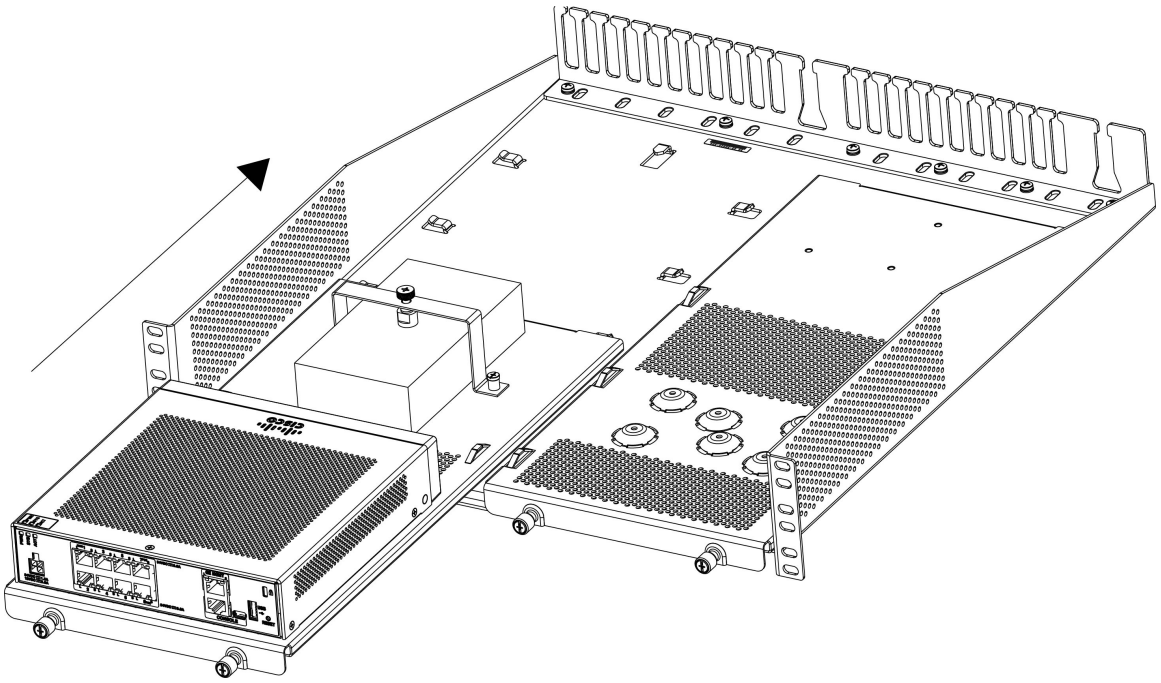
Figure 31: Install the power supply bracket and power supply in the sliding rack tray



1	Chassis	**2**	sliding rack tray
3	Power supply securing bracket	**4**	Power supply

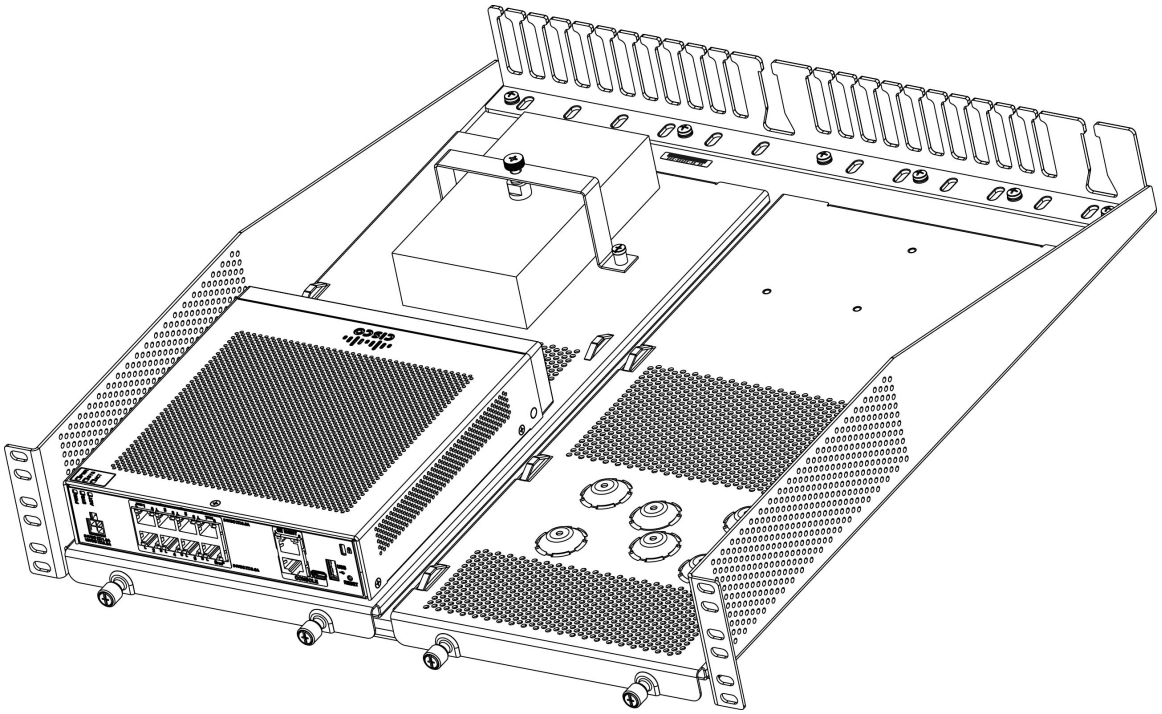
Step 7 Slide the sliding rack tray into the rackmount shelf.

Figure 32: Slide the sliding rack tray into the rackmount shelf



Step 8 The chassis is now installed on the rackmount shelf. Install the rackmount shelf into your rack. Repeat Steps 1 through 7 to rack mount a second chassis.

Figure 33: Rack shelf mounted chassis



Step 9 To remove the chassis from the rack-mount shelf, slide sliding rack tray from the rack-mount shelf.

What to do next

Install the cables according to your default software configuration as described in the Cisco Firepower 1010 Getting Started Guide.

Rack mount the chassis with the 150-W power supply



Caution This rackmount shelf procedure is for the 150-W power supply for the 1010. The 150-W power supply does not fit into the original rackmount shelf.

The rackmount shelf fits into a 2 RU rack. The rackmount shelf is 3.06 x 17.40 x 21.65 inches (H x W x D). The rackmount kit contains the following items:

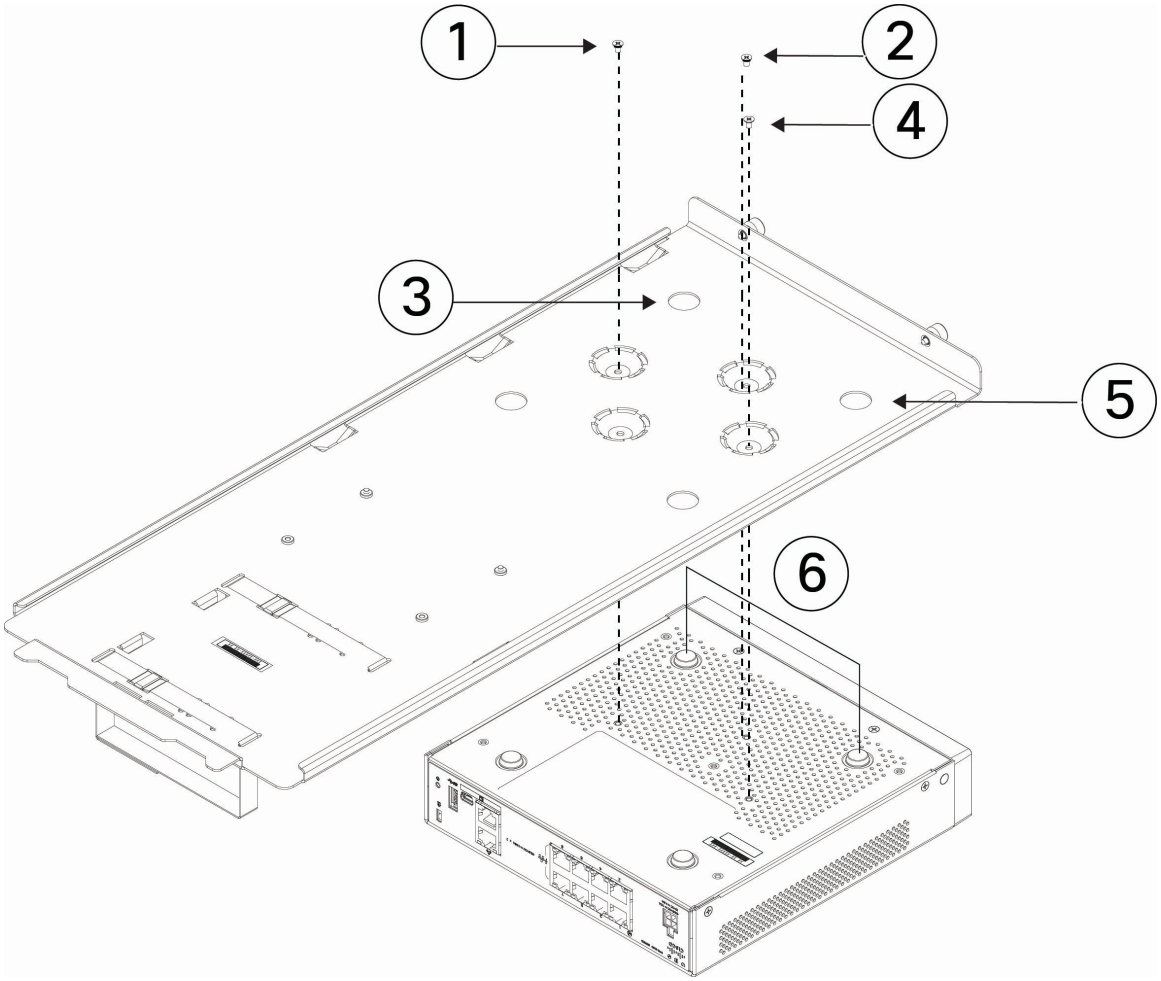
- Rackmount shelf
- Two sliding rack trays
- Six Phillips M3 x 7-mm screws (3 for each sliding rack tray)

Procedure

Step 1 Place the chassis with the top facing down on a large, stable work area.

Step 2 Invert the sliding rack tray and position it on the chassis. You can mount the chassis with the front or rear panel facing front. Use the large holes on the sliding rack tray to line up with the rubber feet. When the rubber feet are centered in the large holes, the screw threads are aligned to the hole in the sliding rack tray. This guarantees that the screws are lined up correctly.

Figure 34: Install the sliding rack tray on the chassis



1	One of the 6 M3 x 7-mm screws	**2**	One of the 6 M3 x 7-mm screws
3	Holes that line up with the rubber feet	**4**	One of the 6 M3 x 7-mm screws
5	Holes that line up with the rubber feet	**6**	Rubber feet

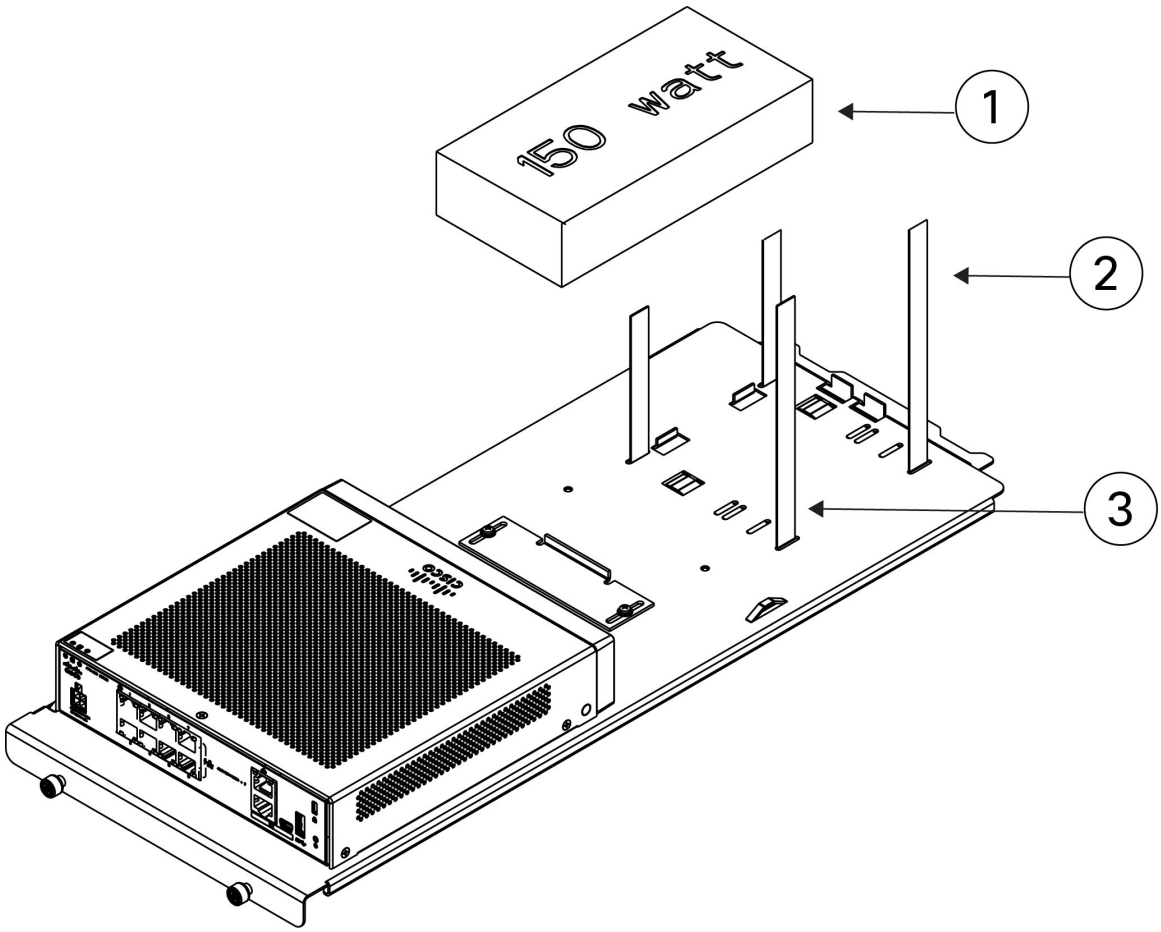
Step 3 Adjust the position of the chassis and the sliding rack tray until the three mounting holes in the dimples in the bottom of the sliding rack tray are aligned with the mounting holes in the bottom of the chassis.

Step 4 Tighten the three M3 x 7-mm screws to lock the chassis into place on the sliding rack tray (see the figure above).

Step 5 Carefully turn the sliding rack tray right-side up.

Step 6 Install the power supply in the sliding rack tray behind the chassis.

Figure 35: Install the power supply in the sliding rack tray



1	Power supply	**2**	Velcro straps for the power supply
3	Velcro straps for the power supply		—

a) Loosen the Velcro straps and place the power supply on the sliding rack tray behind the chassis.

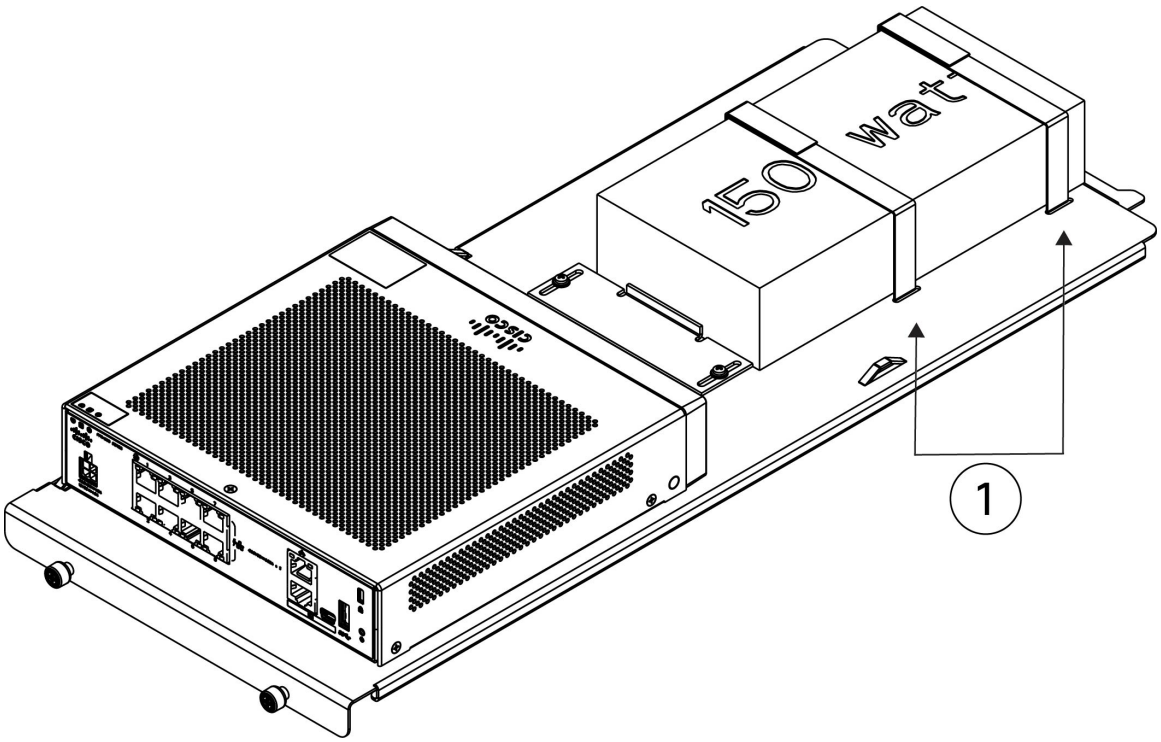
   Make sure the AC inlet cord faces the rear.

b) Align the power supply to the side and rear stops.

   If the rear sliding stop is not touching the power supply, loosen the two screws, slide the stop up to touch the power supply, and then retighten screws.

c) Re-engage the Velcro straps and tighten them to secure the power supply.

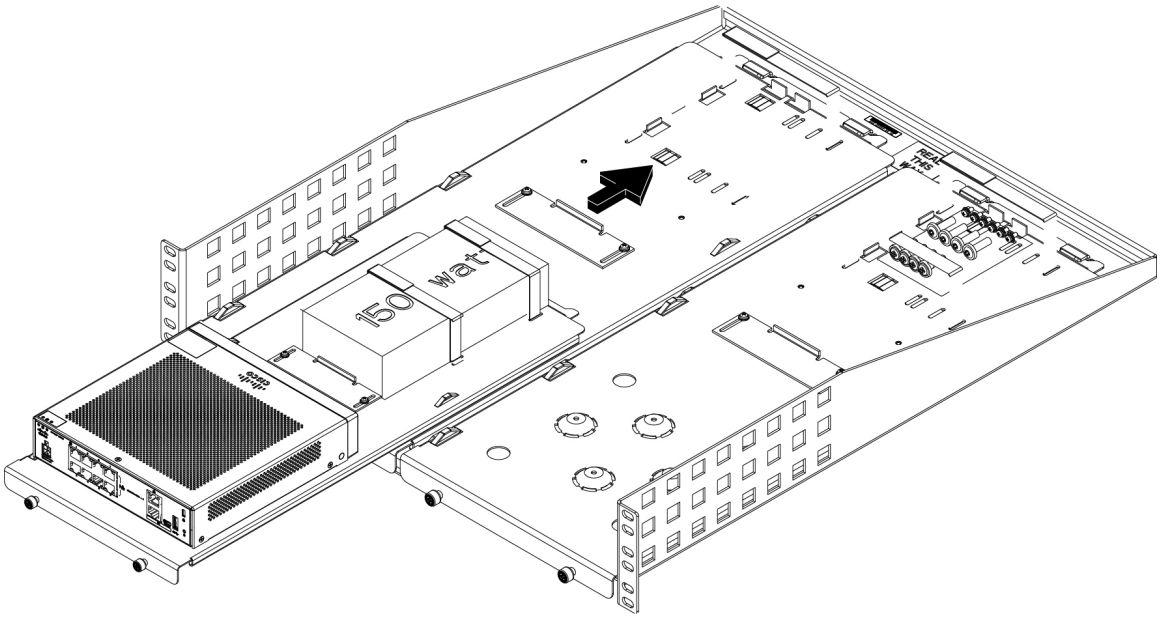
Figure 36: Tighten the Velcro straps on the power supply



1	Velcro straps tightened over power supply		—

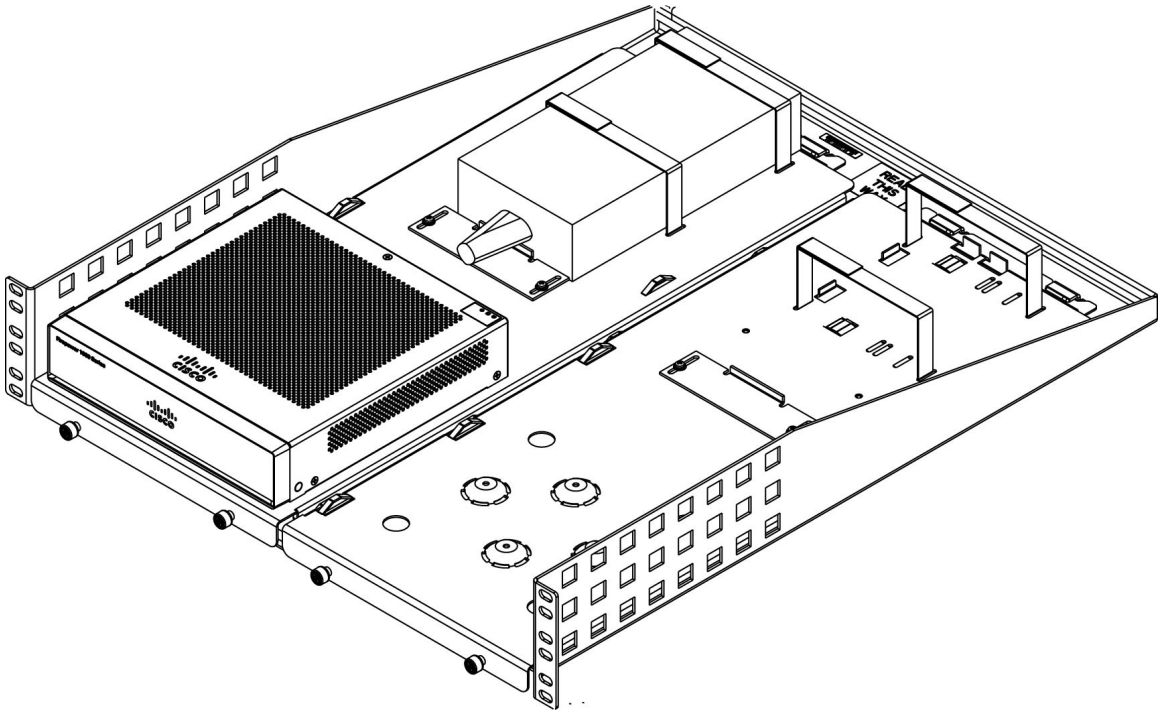
Step 7 Slide the sliding rack tray into the rackmount shelf.

Figure 37: Slide the sliding rack tray into the rackmount shelf



Step 8 The chassis is now installed in the sliding rack tray, which is installed in the rackmount shelf. Repeat Steps 1 through 8 to install a second chassis. Use the second sliding rack tray and remaining three M3 x 7-mm screws to install a second chassis to the sliding rack tray and then onto the rackmount shelf (see Step 3).

Figure 38: Completed sliding rack tray in rackmount shelf

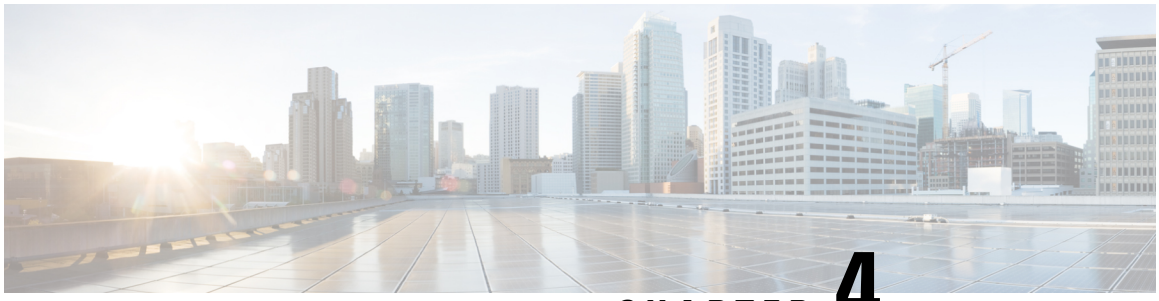


Step 9 Install the rackmount shelf into your rack using the screws that fit your rack type.

You can now attach your power supply cord.

What to do next

Install the cables according to your default software configuration as described in the Cisco Firepower 1010 Getting Started Guide.



CHAPTER 4

Connect to the Console Port

- Connect to the console port with Microsoft Windows, on page 41
- Connect to the console port with Mac OS X, on page 43
- Connect to the console port with Linux, on page 43

Connect to the console port with Microsoft Windows

You must install a USB device driver the first time a Microsoft Windows-based PC is connected to the USB console port on the chassis, otherwise the connection fails.

To uninstall the driver, use the Add Remove Programs utility or the Setup-exe program.

Note Disconnect the console terminal before uninstalling the driver.

Procedure

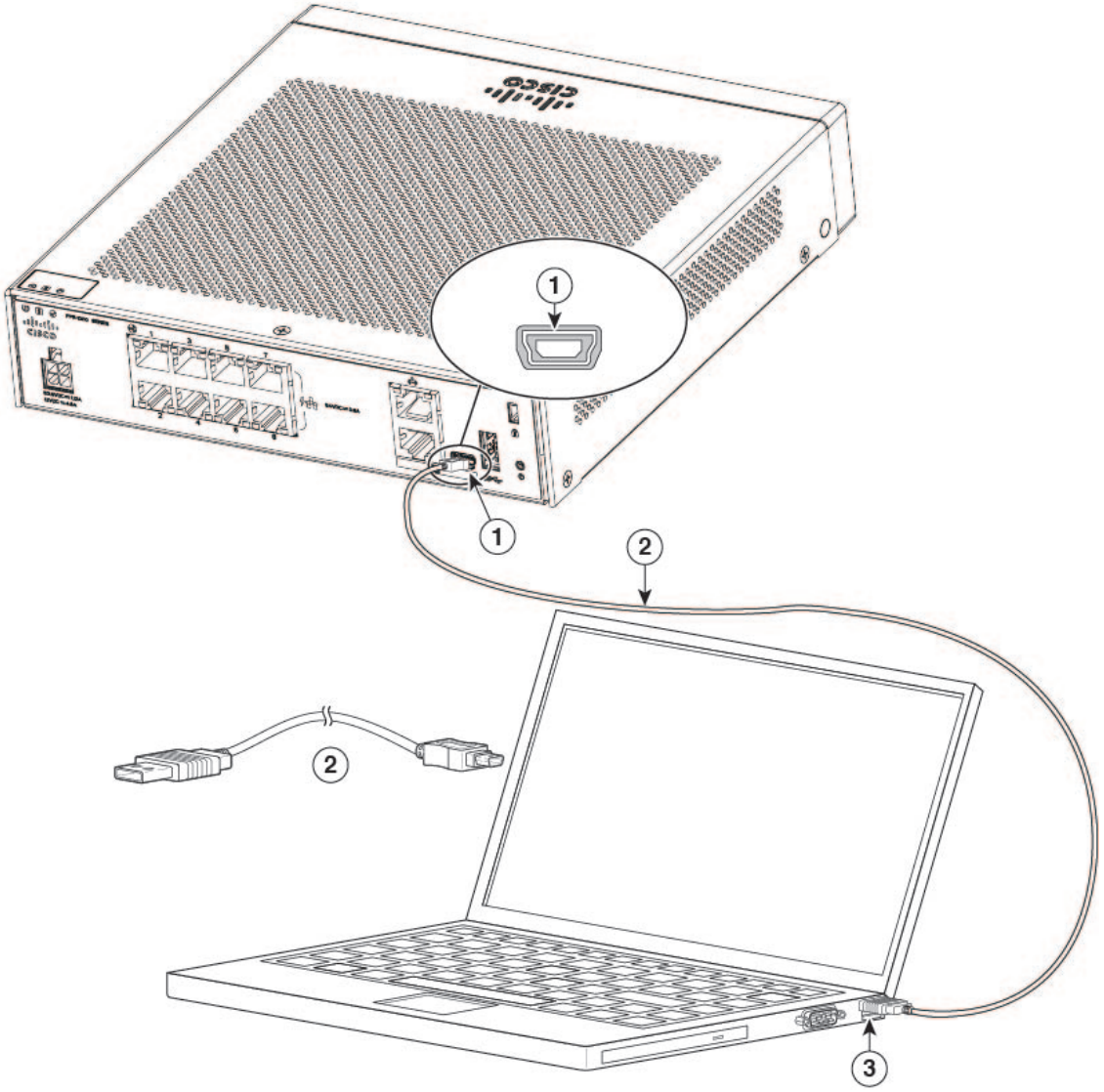
Step 1 Obtain the appropriate driver (Cisco_usbconsole_driver_X_X_zip, where X is a revision number) for your model from the Cisco Download Software site, USB Console Software category.

Note
The download site redirects you to a router download section where the drivers are also applicable to Firepower products. The drivers are OS-specific and not tied to the vendor of the console cable manufacturer.

Step 2 Install the driver.

Step 3 Connect a 5-pin USB Mini B to the console port as shown in the following figure.

Figure 39: Console port connection



1	USB Mini B console port	**2**	USB Mini B to USB Type A console cable
3	USB Type A		—

Step 4 Connect the end of the cable with the DB-9 connector (or USB Type A) to the terminal or PC. If your terminal or PC has a console port that does not accommodate a DB-9 connector, you must provide an appropriate adapter for that port. The LED for the console port turns green and within a few moments the Found New Hardware Wizard appears.

Step 5 Follow the instructions to complete the driver installation.

Step 6 To communicate with the chassis, start a terminal emulator application. This software should be configured with the following parameters:

- 9600 baud
- 8 data bits

- no parity
- 1 stop bit
- no flow control

Connect to the console port with Mac OS X

Follow these steps to connect a Mac OS X system USB port to the console using the built-in OS X Terminal utility, or alternatively you can use a separate terminal emulator application.

Procedure

Step 1 Use the Finder to go to **Applications > Utilities > Terminal**.

Step 2 Connect the OS X USB port to the chassis.

Step 3 Enter the following commands to find the OS X USB port number:

Example:

```
macbook:user$ cd /dev
macbook:user$ ls -ltr /dev/*usb*
crw-rw-rw- 1 root wheel 9, 66 Apr 1 16:46 tty.usbmodem1a21
DT-macbook:dev user$
```

Step 4 Connect to the USB port with the following command followed by the chassis USB port speed:

Example:

```
macbook:user$ screen /dev/tty.usbmodem1a21 9600
```

Step 5 Enter **Ctrl-a** followed by **d** to disconnect the OS X USB console from the Terminal window.

Connect to the console port with Linux

Follow these steps to connect a Linux system USB port to the console using the built-in Linux Terminal utility.

Procedure

Step 1 Open the Linux Terminal window.

Step 2 Connect the Linux USB port to the chassis.

Step 3 Enter the following commands to find the Linux USB port number:

Example:

```
root@usb-suse# cd /dev
root@usb-suse /dev# ls -ltr *ACM*
```

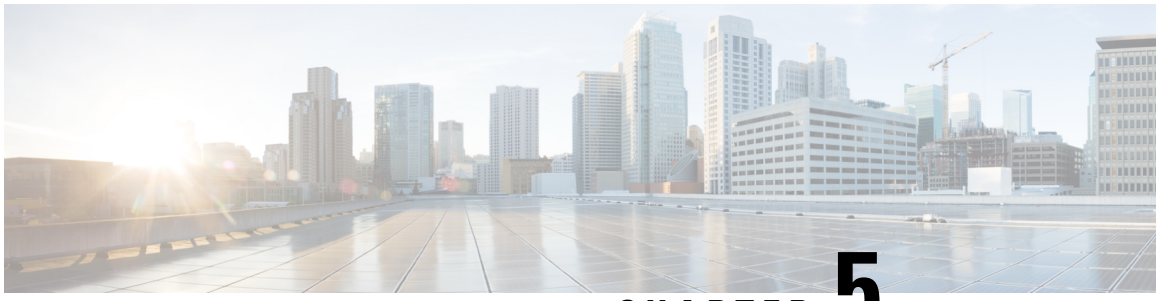
```
crw-r--r-- 1 root root 188, 0 Jan 14 18:02 ttyACM0
root@usb-suse /dev#
```

Step 4 Connect to the USB port with the following command followed by the chassis USB port speed

Example:

```
root@usb-suse /dev# screen /dev/ttyACM0 9600
```

Step 5 To disconnect the Linux USB console from the Terminal window, enter **Ctrl-a** followed by : then **quit**.



CHAPTER 5

Installation, Maintenance, and Upgrade

- Install the FIPS opacity shield , on page 45

Install the FIPS opacity shield

Note Because the FIPS opacity shield covers the serial number on the chassis, the CO should copy the serial number and store it in a secure place. The serial number is needed when you call Cisco TAC.

Note You can *only* install the FIPS opacity shield with the desktop mount or wall mount. The rack mount does not support the FIPS shield.

Before you begin

Caution This procedure should be performed only by the Crypto Officer (CO).

You need the following to install the FIPS opacity shield:

- #1 Phillips head screwdriver
- The following items from the FIPS kit:
  - One FIPS opacity shield
  - Three M3 x 66 mm screws used to attach the FIPS opacity shield to the chassis
  - Nine Tamper Evidence Labels (TELs)

Note The TELs are made of a special thin gauge vinyl with self-adhesive backing. Once the CO attaches them on the chassis, any attempt to open the chassis damages the TELs or the chassis cover. Because the TELs have nonrepeated serial numbers, the CO can inspect them for damage and compare them against the applied serial numbers to verify whether the chassis has been tampered with. TELs with curled corners, rips, and slices indicate tampering. The word “FIPS” or “OPEN” may appear if the label has been peeled back.

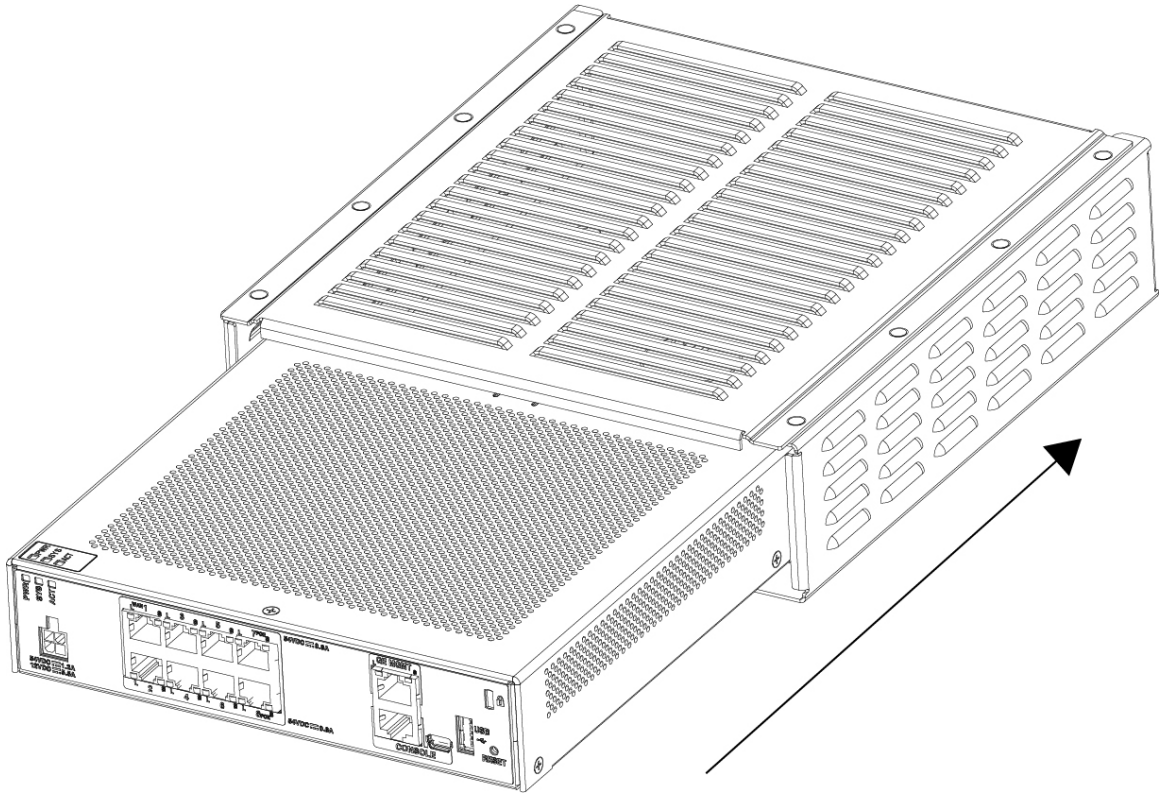
Procedure

Step 1 Copy the serial number and store in a secure place.

Step 2 If the chassis is mounted on a wall, uninstall it.

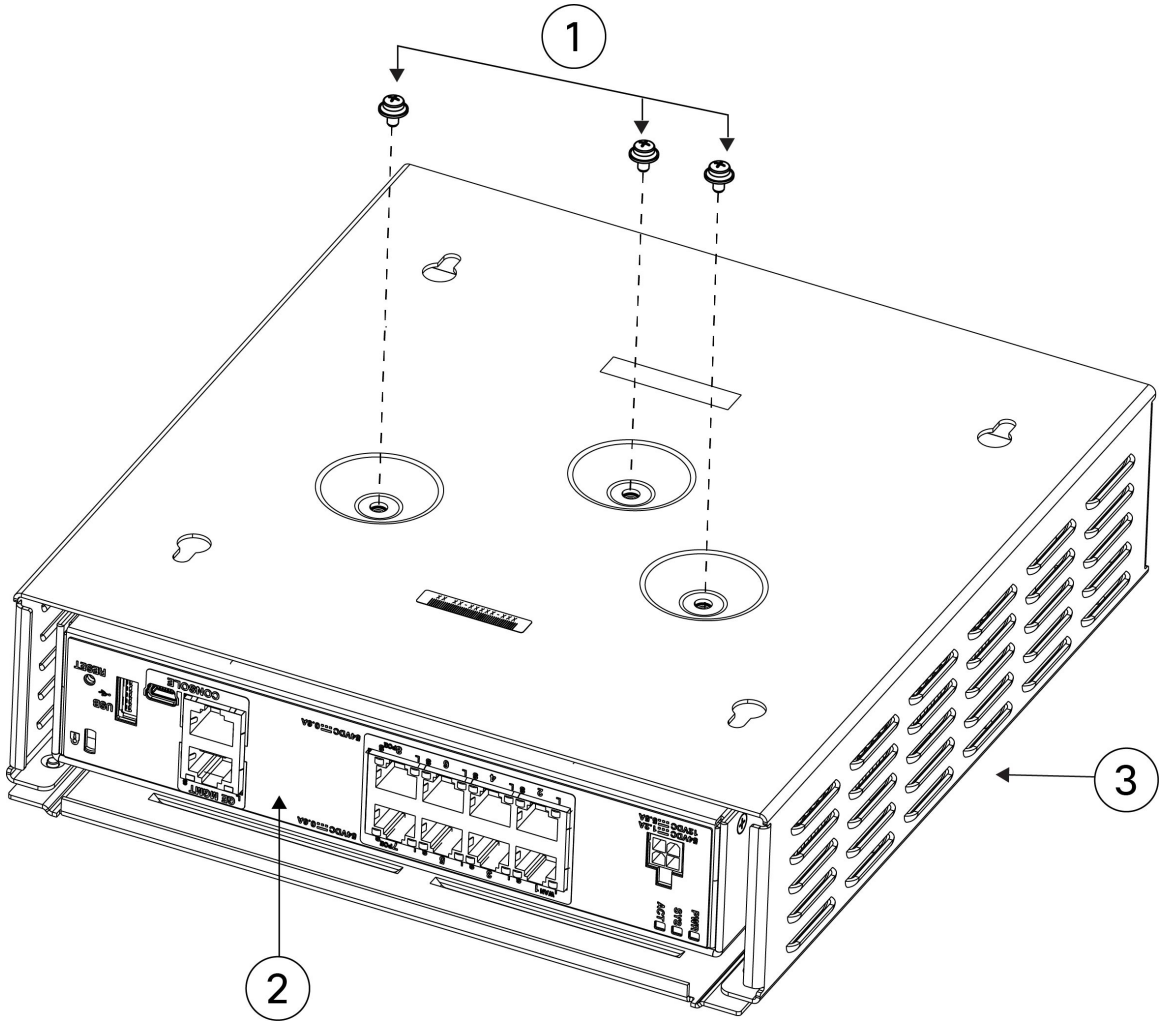
Step 3 Install the FIPS cover by holding the chassis right-side up and sliding the chassis into the FIPS cover front panel first.

Figure 40: Install the chassis into the FIPS cover



Step 4 Turn the chassis with the FIPS cover installed over and install the three screws.

Figure 41: Install the screws on the bottom of the FIPS cover



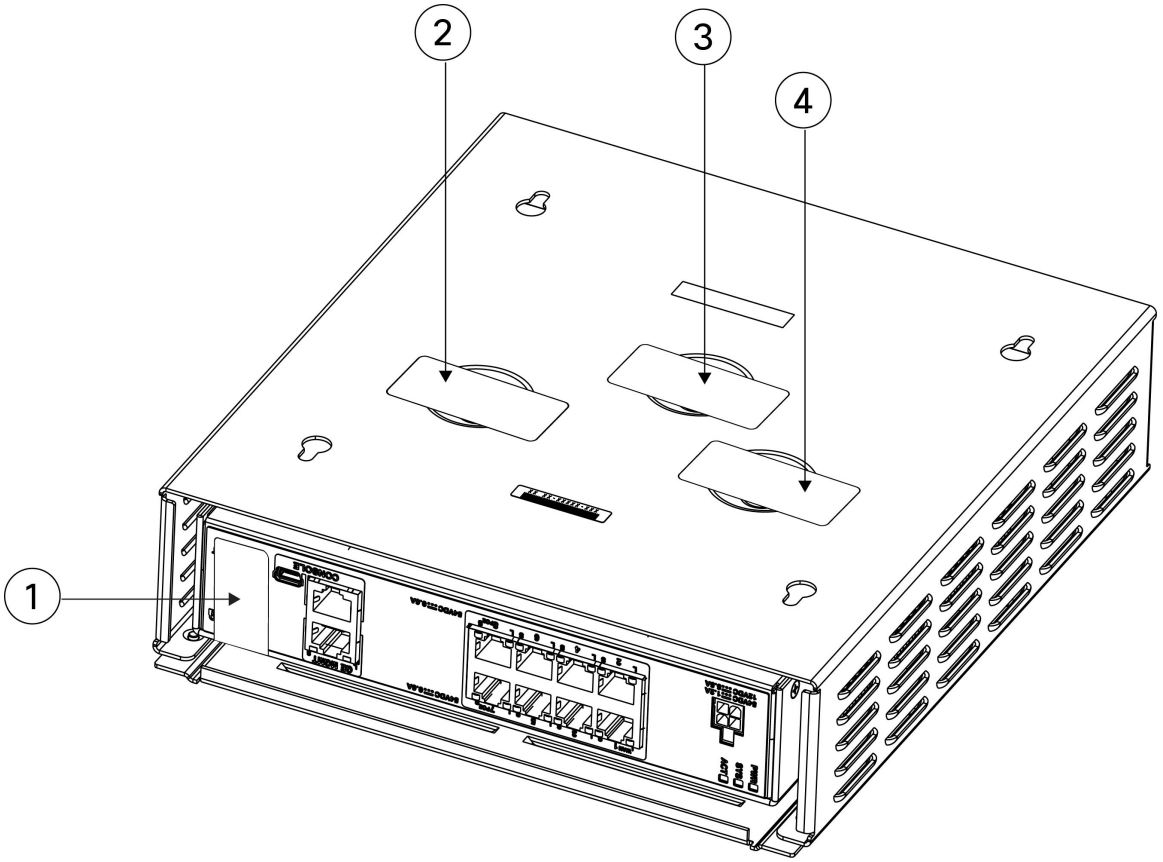
1	FIPS opacity shield	**2**	Three M3 x 66 mm Phillips screws

Step 5 Before you attach the TELs, clean the chassis and FIPS cover of any grease, dirt, or oil with alcohol-based cleaning pads.

Step 6 Attach four of the TELs, three on the bottom of the chassis over the screws and one on the front of the chassis. See the figure below for the correct placement. The figure shows the bottom of the chassis where you place three of the TELs. Allow the TELs to cure for a minimum of 12 hours.

Caution
Any deviation in the placement of the TELs means the chassis is not in FIPS mode.

Figure 42: TELS placement on the rear panel and bottom of the FIPS cover



1	TEL 1 on the rear panel of the chassis	**2**	TEL 2 on the bottom left of the FIPS cover over the screw
3	TEL 3 on the bottom center of the FIPS cover over the screw	**4**	TEL 4 on the bottom right of the FIPS cover over the screw

Step 7 Reinstall the chassis in the wall mount if you are using a mount.

Step 8 Attach the power cable to the chassis and connect it to an electrical outlet.

Step 9 Press the power switch on the rear panel.

Step 10 Check the power LED on the front panel. Solid green indicates that the chassis is powered on.

Step 11 Place the chassis in FIPS mode.

See the following procedures for how to place the chassis in FIPS mode:

- See the "Security Certifications Compliance" chapter in the your software version configuration guide for the procedure to enable FIPS mode.
- Use the **fips enable** command to enable FIPS mode.

What to do next

See the Cisco Firepower 1010 Getting Started Guide for further configuration information.

Related Topics

Serial number and compliance label, on page 6
Desktop-mount the chassis, on page 28
Wall-mount the chassis, on page 28
Status LEDs, on page 9
Cisco Secure Firewall ASA Series Command Reference, A-H Commands