

# Overview


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## Features

The Cisco Secure Firewall 1200 series is a family of network security appliances for enterprise branches. The appliances are powered by a network processor that delivers high performance and power efficiency in modern branch security workloads. The 1200 Series includes three 1U rack-mount models: 1230, 1240 and 1250. The Secure Firewall 1200 series supports Cisco Secure Firewall Threat Defense and Cisco Secure Firewall ASA software.

The following figure shows the Cisco Secure Firewall 1200 series chassis.

*Figure 1: CSF-1230, CSF-1240, and CSF-1250*



The following table lists the features for the Secure Firewall 1200 series.

*Table 1: CSF-1230, CSF-1240, and CSF-1250 Features*

| Feature | CSF-1230 | CSF-1240 | CSF-1250 |
|---|---|---|---|
| Form factor | 1 RU | | |
| Mounting | Rack mount<br>EIA-310D (19-inch) rack (2-post mounting) | | |
| Airflow | I/O side to non-I/O side with I/O side air intake<br>Rear panel to front panel (cold aisle to hot aisle) | | |
| System memory | 16 GB | 32 GB | |
| Management port | One 1-Gbps copper RJ-45 Gigabit Ethernet 10/100/1000 BaseT | | |
| Console ports | One Cisco Serial (RS-232 on RJ-45)<br>One USB Type C 3.0<br>Provides management access through an external system; you cannot use both ports at the same time. | | |
| USB port | One USB 3.0 Type A<br>Allows attachment of an external device such as mass storage | | |
| Network ports | Eight 1000BaseT | | Eight 1000/2500BaseT |

| Feature | CSF-1230 | CSF-1240 | CSF-1250 |
|---|---|---|---|
| Small form-factor pluggable (SFP) ports | Four SFP+ (1/10Gbps)<br>Port numbering is left to right, top to bottom; ports are named Gigabit Ethernet 1/9 through 1/12. Each port includes a pair of LEDs, one each for connection status and link status. | | |
| Supported SFPs | See Supported transceivers , on page 12 for a list of the supported SFPs. | | |
| Power switch | Located on the left side of the rear panel | | |
| Reset button | Small recessed button | | |
| AC power supply | One AC power supply<br>Internal component only; not field-replaceable.<br>You must return the chassis to Cisco for power supply replacement. | | |
| Redundant power | No | | |
| Fan | Two fixed fans<br>Internal component only; not field-replaceable.<br>You must return the chassis to Cisco for fan replacement. | | |
| Storage | One slot<br>960-GB U.2 NVME | | |
| Flash | Internal 16 GB eMMC<br>The flash is not field-replaceable; you must return the chassis to Cisco for flash replacement. | | |

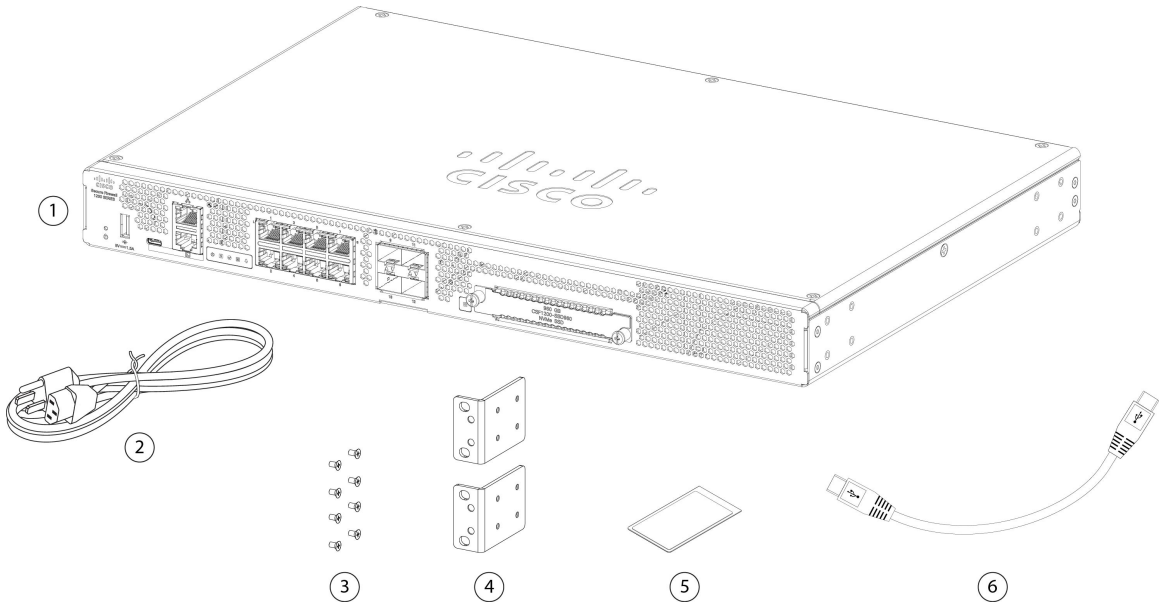
**Related Topics**

Product ID numbers, on page 15
Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility
Cisco Returns Portal
Replace the SSD

# Package contents

The following figure shows the package contents for the Secure Firewall 1230, 1240, and 1250. Note that the contents are subject to change, and your exact contents might contain additional or fewer items depending on what you ordered.

*Figure 2: CSF-1230, CSF-1240, and CSF-1250 package contents*



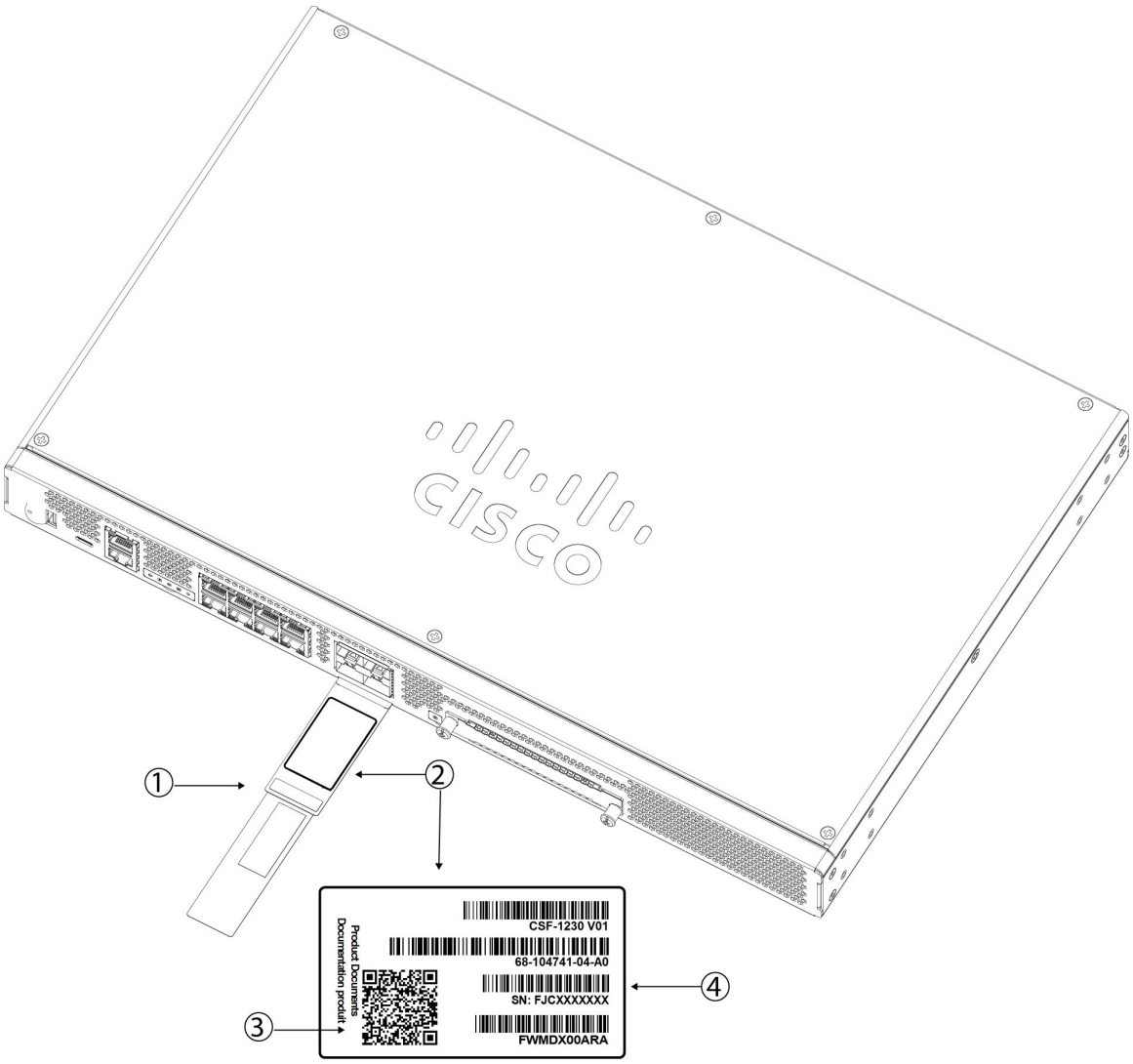

| | | | |
|---|---|---|---|
| **1** | Chassis | **2** | Power cord<br>Optional: in package if ordered |
| **3** | Eight 6-32 x 0.25-inch Phillips screws for securing the rack mount brackets to the chassis | **4** | Two rack-mount brackets |
| **5** | *Cisco Secure Firewall 1230, 1240, and 1250*<br>This document has links to the hardware installation guide, regulatory and safety information guide, and warranty and licensing information. It also contains a QR code and URL 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. | **6** | USB console cable (Type C)<br>PID: CAB-CONS-USB-C<br>Optional: in package if ordered |

# Pullout asset tag and compliance label

The pullout asset card on the front panel of the chassis contains the chassis model name, part number, serial number, the common language equipment identifier (CLEI), and the Digital Documentation Portal QR code that points to the getting started guide, the regulatory and compliance guide, the zero-touch deployment guide, and the hardware installation guide.

The following figure shows an example pullout asset card on the front panel of the chassis.

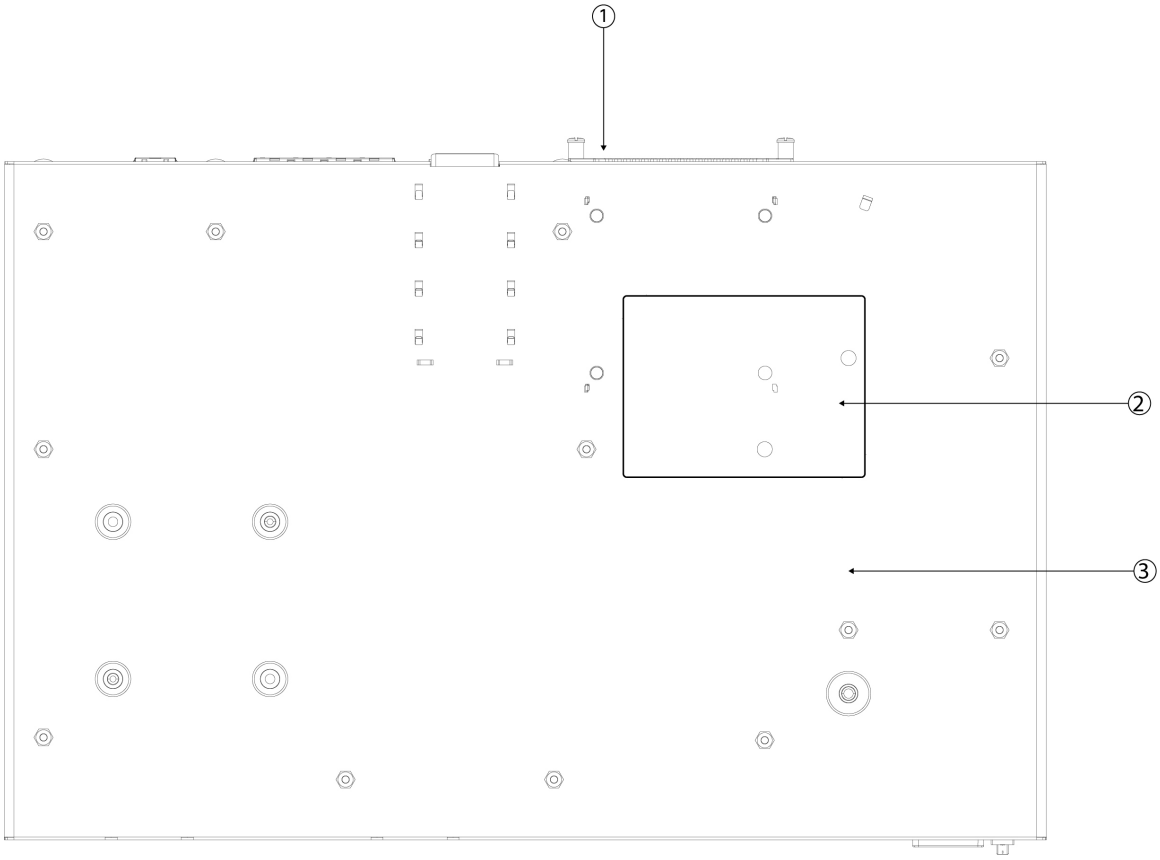
*Figure 3: Pullout asset card on the front panel of the chassis*




| | | | |
|---|---|---|---|
| **1** | Pullout asset tab | **2** | Label |
| **3** | Digital Documentation Portal QR code | **4** | Chassis serial number |

The following figure shows the location of the compliance label on the bottom of the chassis.

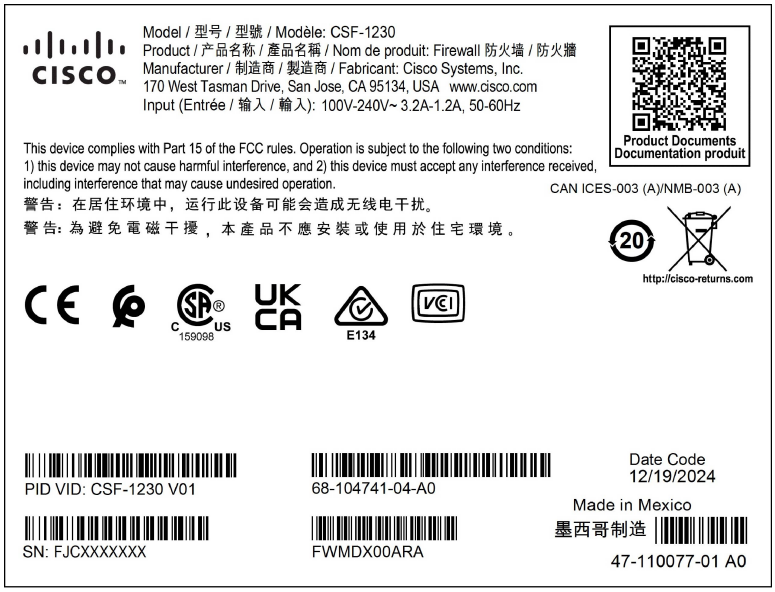
*Figure 4: Compliance label on the bottom of the chassis*




| | | | |
|---|---|---|---|
| **1** | Front panel (I/O side) | **2** | Compliance label |
| **3** | Bottom of the chassis | | — |

The following figure shows a sample compliance label found on the bottom of the chassis.

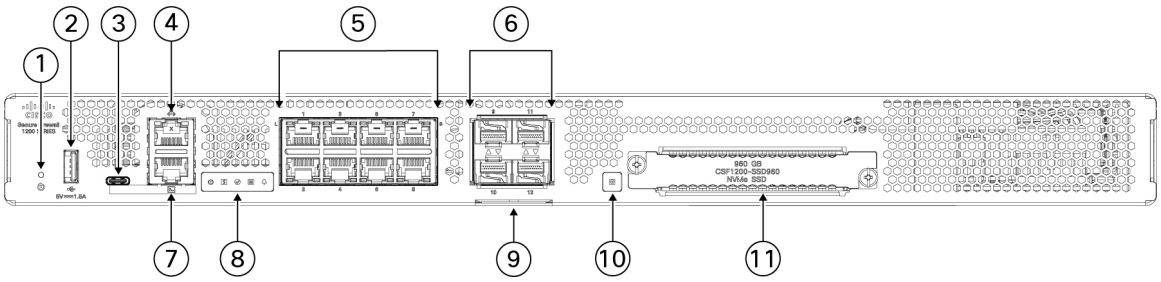
*Figure 5: Sample compliance label*




# Front panel

The following figure shows the front panel of the Secure Firewall 1230, 1240, and 1250.

*Figure 6: CSF-1230, CSF-1240, and CSF-1250 front panel*




| | | | |
|---|---|---|---|
| **1** | Reset button | **2** | USB Type A |
| **3** | USB Type C console | **4** | Management port RJ-45 |
| **5** | Eight 1000BASE-T (CSF-1230 and CSF-1240) or 2.5 G BASE-T (CSF-1250) Ethernet ports (numbered 1 through 8) | **6** | Four SFP+ ports (numbered 9 through 12) |
| **7** | RJ-45 (8P8C) console port | **8** | Status LEDs |
| **9** | Pullout asset tag | **10** | SSD LED |

| | | | |
|---|---|---|---|
| **11** | SSD slot | | — |

**Related Topics**

Front panel LEDs, on page 9
Pullout asset tag and compliance label, on page 4

# Power switch and reset button

### Power switch

The power button is a rocker-type power on/off switch and is located on the rear panel.

**Note** The power switch provides a way to gracefully shut down the system and place it in standby. Graceful shutdown reduces the risk of system software and data corruption. The power supply and fan remain active and the fan may continue to spin at slow speed. To achieve total power shut down, unplug the power supply from the chassis.

**Caution** If you accidentally push the power switch to ON while unpacking your chassis, make sure the power switch is set to OFF before you connect AC power for the first time. The chassis powers on and boots up as soon as the AC power is applied when the power button is in the ON position.

### Reset button

The chassis has a small recessed reset button on the left front panel that resets the system to the factory default. All previous configuration is erased after pressing the button down with a pin for five seconds. This resets the chassis to its default state following the next reboot.

**Note** Configuration variables are reset to factory default, but the flash is not erased and no files are removed.

**Related Topics**

Front panel LEDs, on page 9

# Management, console, USB, and network ports

### Management port

The Secure Firewall 1230, 1240, and 1250 have one 1-Gbps 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 Cisco RJ-45 serial port and a Type C USB serial port. Only one serial 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.

- 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 an adapter to convert the RJ45-to-DB9 connection if necessary.
- Type C USB port—Lets you connect to a USB port on an external computer. 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. The default setting is 9600 baud. Use this for the initial connection. Baud rates for the USB console port are 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.

### 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

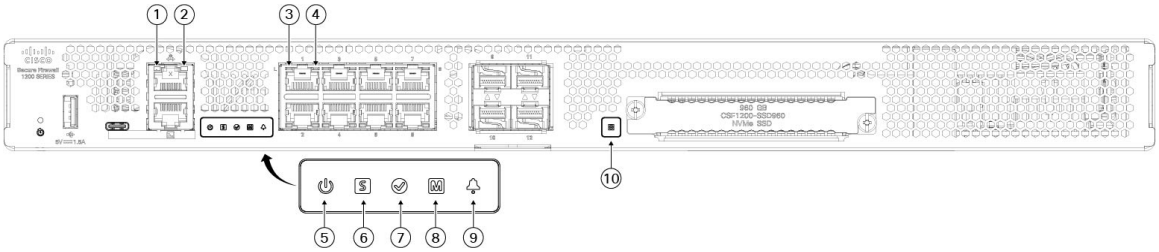
The Secure Firewall 1230 and 1240 have eight 1000 BaseT ports. The Secure Firewall 1250 has eight 1000/2500 BaseT ports. The ports are numbered (from top to bottom, left to right) 1, 2, 3, 4, 5, 6, 7, 8. Each port includes a pair of LEDs, one each for connection status and link status. The ports are 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.

# Front panel LEDs

The following figure shows the LEDs on the front panel of the Secure Firewall 1230, 1240, and 1250 and describes their states.

*Figure 7: CSF-1230, CSF-1240, and CSF-1250 front panel LEDs*




| | | | |
|---|---|---|---|
| **1** | **Management**<br>Status of the management ports:<br>Link status (L):<br>• Off—No link, or port is not in use.<br>• Green—Link established.<br>• Green, flashing—Link activity. | **2** | **Management**<br>Status of the management ports:<br>Connection-speed status (S):<br>• Green, flashing—One flash every three seconds = 10 Mbps.<br>• Green, flashing—Two rapid flashes = 100 Mbps.<br>• Green, flashing—Three rapid flashes = 1000 Mbps. |
| **3** | **Network**<br>Status of the network ports (applies to CSF-1230 and CSG-1240):<br>Link status (L):<br>• Off—No link, or port is not in use.<br>• Green—Link established.<br>• Green, flashing—Link activity.<br>Status of the network ports (applies to CSF-1250):<br>Link status (L):<br>• Off—No link, or port is not in use.<br>• Green, flashing—Link activity. | **4** | **Network**<br>Status of the network ports (applies to CSF-1230 and CAF-1240):<br>Connection-speed status (S):<br>• Green, flashing—One flash every three seconds = 10 Mbps.<br>• Green, flashing—Two rapid flashes = 100 Mbps.<br>• Green, flashing—Three rapid flashes = 1000 Mbps.<br>Status of the network ports (applies to CSF-1250):<br>Connection-speed status (S):<br>• Off—No link, or port is not in use.<br>• Green—Link established |

| | | | |
|---|---|---|---|
| 5 | **Power**<br>Power supply status:<br>• Off —Power supply off.<br>• Green—Power supply on.<br>• Amber—System is powering up or system firmware is updating.<br>• Green, flashing—System in process of a graceful shutdown. | 6 | **System**<br>System operating status:<br>• Off—System has not booted up yet.<br>• Green, flashing—System is booting up.<br>• Green—System has booted up; normal system function.<br>• Amber—System failed to boot.<br>• Amber, flashing—Boot failed. |
| 7 | **Active**<br>Status of the failover pair:<br>• Off—System is in standby mode.<br>• Green—System is in active mode. | 8 | **Managed**<br>Cloud connection status for zero-touch provisioning:<br>• Green, flashing slowly (twice in five seconds)—Connected to the Cisco cloud and ready for onboarding.<br>• Green and amber, flashing—Cloud connection failure.<br>• Green—Onboarded. |
| 9 | **Alarm**<br>Status of the alarms:<br>• Off—No alarms.<br>• Yellow—Power supply, temperature too high, and/or fan failures. | 10 | **SSD**<br>Status of the SSD:<br>• Off— No SSD present.<br>• Green—SSD detected.<br>• Green, flashing—Activity on the SSD. |

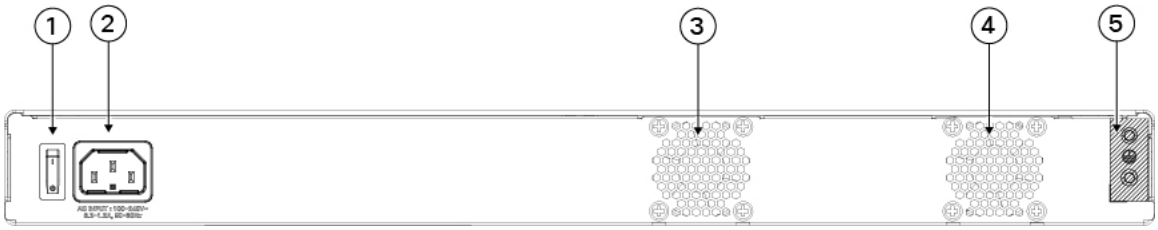
**Related Topics**

Replace the SSD

# Rear panel

The following figure shows the rear panel of the Secure Firewall 1230, 1240, and 1250.

***Figure 8: CSF-1230, CSF-1240, and CSF-1250 rear panel***



| | | | |
|---|---|---|---|
| **1** | Power switch | **2** | Power cord socket |
| **3** | Internal fan | **4** | Internal fan |
| **5** | Grounding lug pad | | — |

**Related Topics**

Ground the chassis

# Hardware specifications

The following table contains hardware specifications for the Secure Firewall 1200 series.

***Table 2: CSF-1230, CSF-1240, and CSF-1250 hardware specifications***

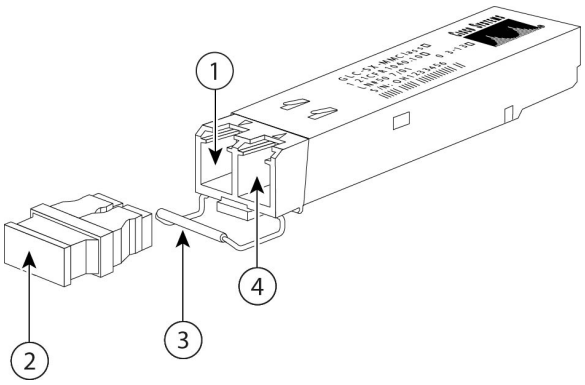
| **Specification** | **CSF-1230** | **CSF-1240** | **CSF-1250** |
|---|---|---|---|
| Dimensions (H x W x D) | 1.72 x 11.22 x 17.25 inches (4.37 x 28.49 x 43.81 cm) | | |
| Weight | 9.35 lb (4.24 kg) | | 9.52 lb (4.31 kg) |
| Temperature | Operating: 32 to 104°F (0 to 40°C)<br>Nonoperating: -13 to 158°F (-25 to 70°C) maximum altitude is 15,000 ft | | |
| Humidity | Operating: 5 to 85% noncondensing<br>Nonoperating: 5 to 95% noncondensing | | |
| Altitude | Operating: 0 to 10,000 ft (0 to 3048 m)<br>Nonoperating: 0 to 15,000 ft (0 to 4572 m) | | |
| Acoustic noise<br>(10,000 ft and 40°C) | 52.1 dBa (maximum)<br>At highest system performance | 57.8 dBa (maximum)<br>At highest system performance | |
| Power consumption (maximum) | 57 W | 69 W | 88 W |

# Supported transceivers

The SFP transceiver is a bidirectional device with a transmitter and receiver in the same physical package. It is a hot-swappable optical or electrical (copper) interface that plugs into the SFP ports on the fixed ports and the network module ports, and provides Ethernet connectivity.

The following figure shows the components of a transceiver.

*Figure 9: SFP transceiver*




| | | | |
|---|---|---|---|
| **1** | Dust plug | **2** | Bail clasp |
| **3** | Receive optical bore | **4** | Transmit optical bore |

### Safety warnings

Take note of the following warnings:

**Warning** **Statement 1055—**Class 1/1M Laser

Invisible laser radiation is present. Do not expose to users of telescopic optics. This applies to Class 1/1M laser products.




**Warning** **Statement 1056—**Unterminated Fiber Cable

Invisible laser radiation may be emitted from the end of the unterminated fiber cable or connector. Do not view directly with optical instruments. Viewing the laser output with certain optical instruments, for example, eye loupes, magnifiers, and microscopes, within a distance of 100 mm, may pose an eye hazard.

**Warning** **Statement 1057—**Hazardous Radiation Exposure

Use of controls, adjustments, or performance of procedures other than those specified may result in hazardous radiation exposure.

**Warning** Use appropriate ESD procedures when inserting the transceiver. Avoid touching the contacts at the rear, and keep the contacts and ports free of dust and dirt. Keep unused transceivers in the ESD packing that they were shipped in.

**Caution** Although non-Cisco SFPs are allowed, we do not recommend using them because they have not been tested and validated by Cisco. Cisco TAC may refuse support for any interoperability problems that result from using an untested third-party SFP transceiver.

The following table lists the SFPs that are supported on the Secure Firewall 1230, 1240, and 1250 fixed ports.

***Table 3: CSF-1230, CSF-1240, and CSF-1250 fixed ports***

| Port type | Transceiver PID | First supported release |
|---|---|---|
| Fixed SFP ports | • GLC-TE<br>• GLC-SX-MMD<br>• GLC-LH-SMD<br>• GLC-EX-SMD<br>• GLC-ZX-SMD<br>• GLC-GE-100FX | Firewall Threat Defense 7.7/ASA 9.23 |

The following table lists the SFPs that are supported on the Secure Firewall 1230, 1240, and 1250 fixed ports.

***Table 4: CSF-1230, CSF-1240, and CSF-1250 fixed ports***

| Port type | Transceiver PID | First supported release |
|---|---|---|
| Fixed SFP ports | • SFP-10G-SR<br>• SFP-10G-SR-S<br>• SFP-10G-LR<br>• SFP-10G-LR-S<br>• SFP-10G-ER<br>• SFP-10G-ER-S<br>• SFP-10G-T-X<br>• SFP-H10GB-CUxM<br>• SFP-H10GB-ACUxM<br>• SFP-10G-AOCxM | Firewall Threat Defense 7.7/ASA 9.23 |

**Related Topics**

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

# Product ID numbers

The following table lists the field-replaceable PIDs associated with the Secure Firewall 1230, 1240, and 1250. The spare components are ones that you can order separately from the appliance. If any internal components fail, you must get a return material authorization (RMA) for the entire chassis.

**Note** Use the **show inventory** command to display a list of the PIDs for your Secure Firewall 1230, 1240, and 1250.

***Table 5: CSF-1230, CSF-1240, and CSF-1250 PIDs***

| PID | Description |
|---|---|
| CSF1230-ASA-K9 | Secure Firewall 1230 appliance, ASA |
| CSF1240-ASA-K9 | Secure Firewall 1240 appliance, ASA |
| CSF1250-ASA-K9 | Secure Firewall 1250 appliance, ASA |
| CSF1230-TD-K9 | Secure Firewall 1230 appliance, Threat Defense |
| CSF1240-TD-K9 | Secure Firewall 1240 appliance, Threat Defense |
| CSF1250-TD-K9 | Secure Firewall 1250 appliance, Threat Defense |
| CSF1200-SSD960 | Secure Firewall 1230, 1240, and 1250 960-GB SSD |
| CSF1200-SSD960= | Secure Firewall 1230, 1240, and 1250 960-GB SSD (spare) |
| CSF1200-CBL-MGMT | Secure Firewall 1230, 1240, and 1250 cable-management brackets |
| CSF1200-CBL-MGMT= | Secure Firewall 1230, 1240, and 1250 cable-management brackets (spare) |
| CSF1200-BRKT= | Secure Firewall 1230, 1240, and 1250 rack-mount brackets (spare) |

**Related Topics**

Cisco Returns Portal

Cisco Secure Firewall Threat Defense Command Reference

Cisco Secure Firewall ASA Series Command Reference

# Power Cord Specifications

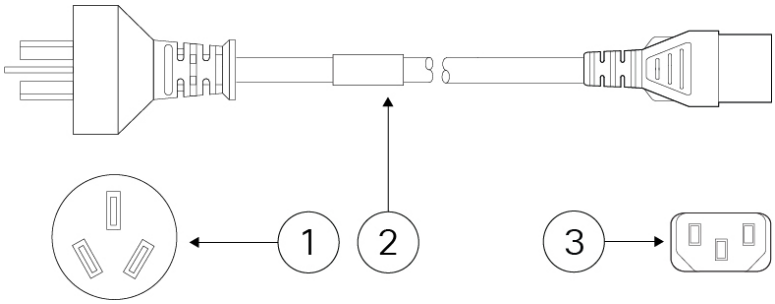
Standard power cords or jumper power cords are available for connection to the security appliance. The jumper power cords for use in racks are available as an optional alternative to the standard power cords.

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.

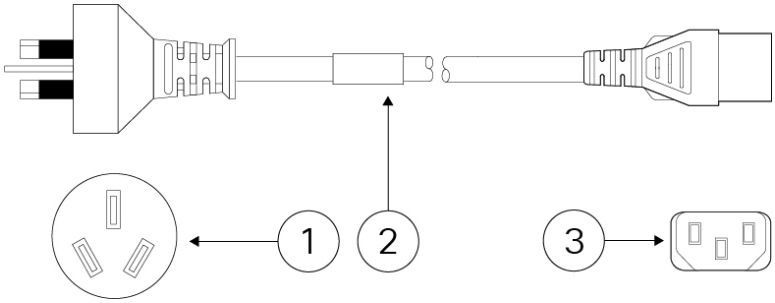
The following power cords are supported.

***Figure 10: Argentina (CAB-ACR)***



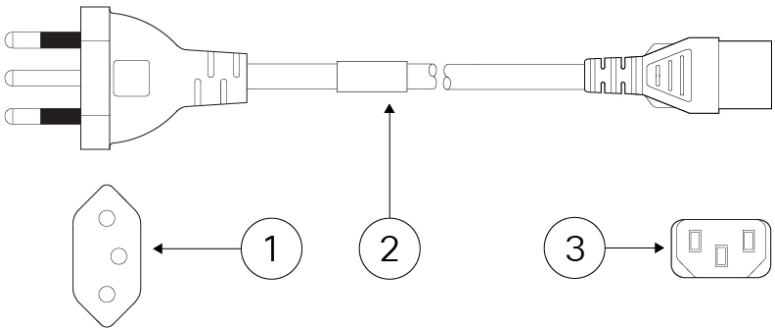

| | | | |
|---|---|---|---|
| **1** | Plug: VA2073 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

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



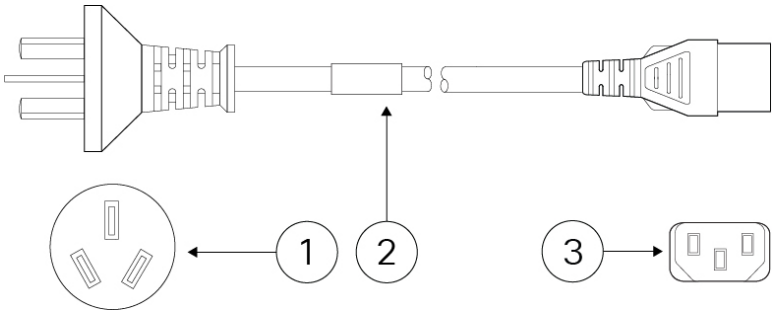

| | | | |
|---|---|---|---|
| **1** | Plug: AU10LS3 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

*Figure 12: Brazil (CAB-C13-ACB)*



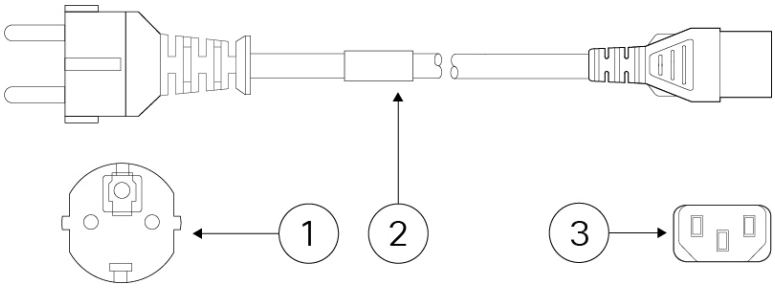

| | | | |
|---|---|---|---|
| **1** | Plug: NBR 14136 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: EL 701B (EN 60320/C13) | | — |

*Figure 13: China (CAB-ACC)*



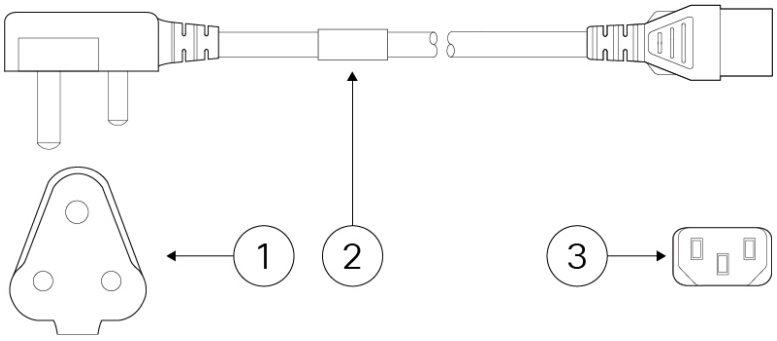

| | | | |
|---|---|---|---|
| **1** | Plug: V3203C | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

*Figure 14: Europe (CAB-ACE)*



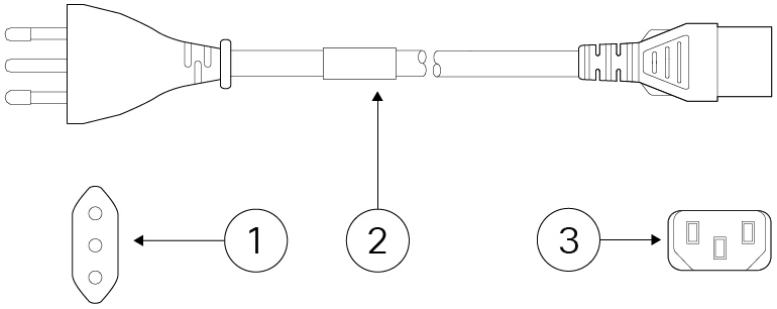

| | | | |
|---|---|---|---|
| **1** | Plug: M2511 | **2** | Cord set rating: 16 A, 250 V |
| **3** | Connector: V1625 | | — |

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



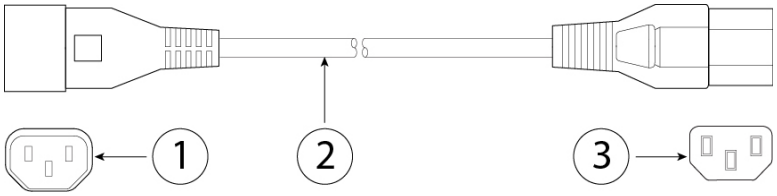

| | | | |
|---|---|---|---|
| **1** | Plug: IA16A3-C | **2** | Cord set rating: 16 A, 250 V |
| **3** | Connector: V1625BS-E | | — |

*Figure 16: Italy (CAB-ACI)*



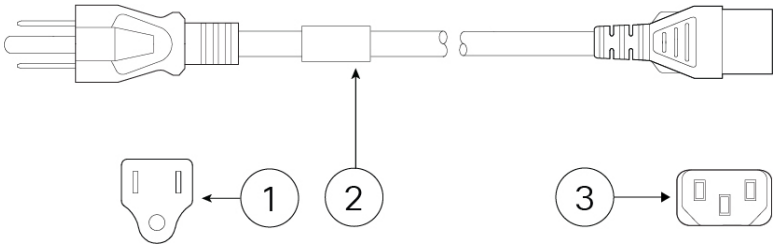

| | | | |
|---|---|---|---|
| **1** | Plug: IT10S3 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

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



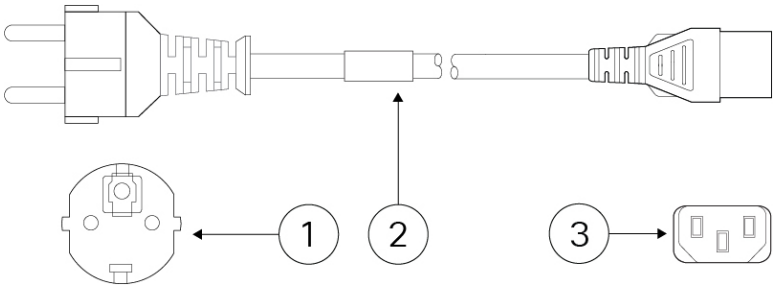

| | | | |
|---|---|---|---|
| **1** | IEC 60320-2-2/E | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: IEC 60320/C13 | | — |

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



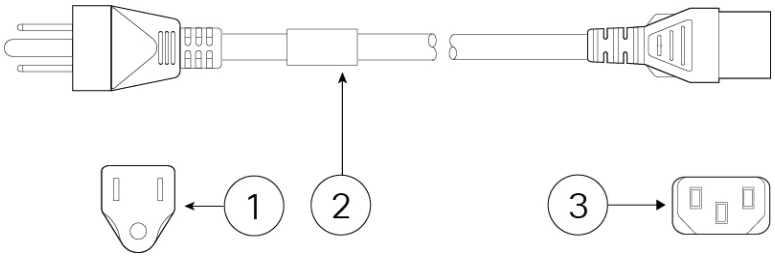

| | | | |
|---|---|---|---|
| **1** | Plug: M744 | **2** | Cord set rating: 12 A, 125 V |
| **3** | Connector: V1625 | | — |

*Figure 19: Korea (CAB-AC-C13-KOR)*



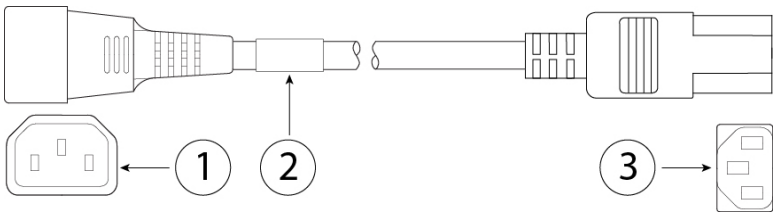

| | | | |
|---|---|---|---|
| **1** | Plug: M2511 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

*Figure 20: North America (CAB-AC)*



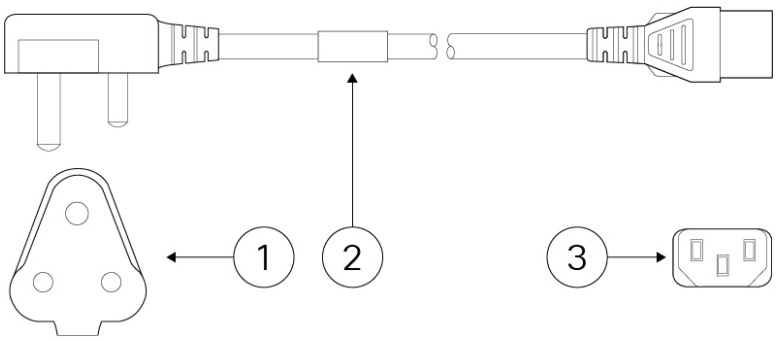

| | | | |
|---|---|---|---|
| **1** | Plug: PS204 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

*Figure 21: Jumper (CAB-C13-C14-2M)*



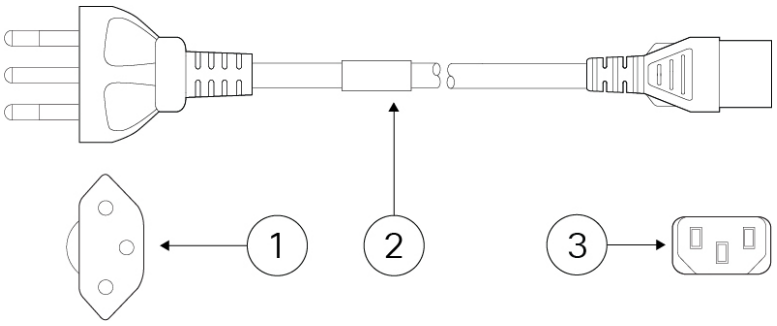

| | | | |
|---|---|---|---|
| **1** | IEC 60320/C14G | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: IEC 60320/C13 | | — |

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



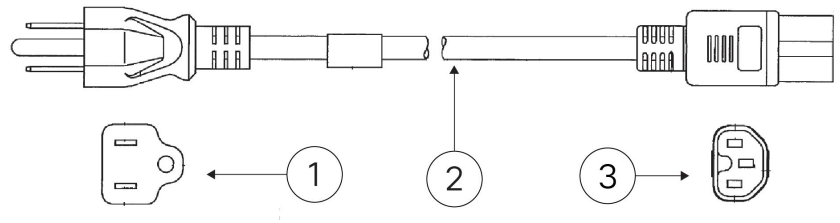

| | | | |
|---|---|---|---|
| **1** | Plug: SA16A | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

*Figure 23: Switzerland (CAB-ACS)*



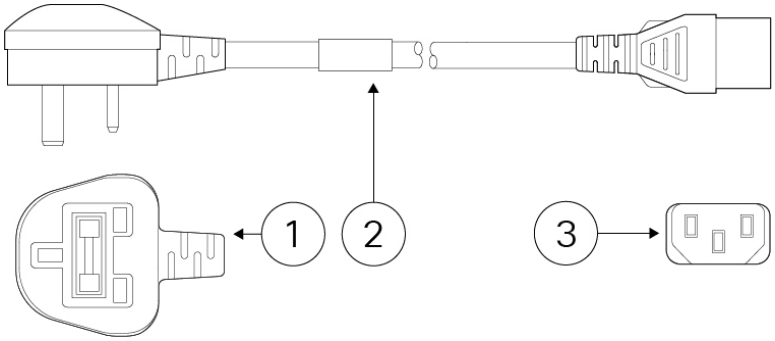

| | | | |
|---|---|---|---|
| **1** | Plug: SW10ZS3 | **2** | Cord set rating: 10 A, 250 V |
| **3** | Connector: V1625 | | — |

*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 | | — |