



Hardware Specifications

Firepower 7000 Series devices are delivered on a variety of platforms to meet the needs of your organization.

Rack and Cabinet Mounting Options

You can mount Firepower devices in racks and server cabinets. The appliance comes with a rack-mounting kit except for the Firepower 7010, 7020, 7030, and 7050. For information on mounting the appliance in a rack, refer to the instructions delivered with the rack-mounting kit.

The Firepower 7010, 7020, 7030, and 7050 require a tray and rack-mounting kit, available separately. You can purchase rack and cabinet mounting kits for other appliances separately.

Firepower 7000 Series Devices

All Firepower 7000 Series devices have an LCD panel on the front of the appliance where you can view and, if enabled, configure your appliance. See the following sections for information:

- [Firepower 7010, 7020, 7030, and 7050, page 2-1](#)
- [Firepower 7110 and 7120, page 2-7](#)
- [Firepower 7115, 7125, and AMP7150, page 2-13](#)

Firepower 7010, 7020, 7030, and 7050

The Firepower 7010, 7020, 7030, and 7050 devices, also called the 70xx Family, are 1U appliances, one-half the width of the rack tray and delivered with eight copper interfaces, each with configurable bypass capability. See the *Regulatory Compliance and Safety Information for FirePOWER and FireSIGHT Appliances* document for safety considerations for Firepower 70xx Family appliances.

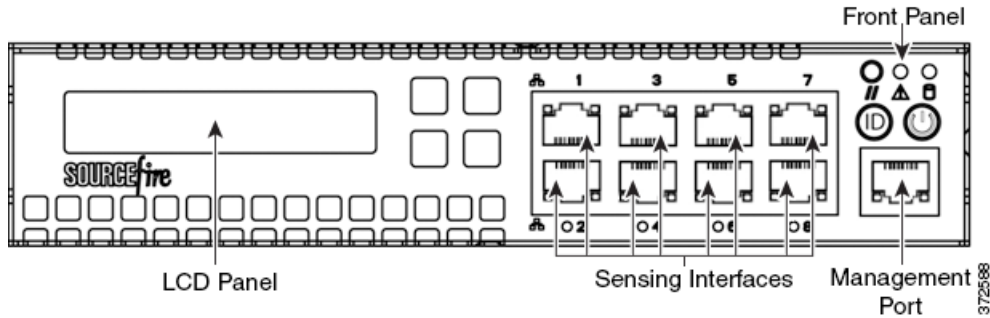
See the following sections for more information:

- [Firepower 70xx Family Front View, page 2-2](#)
- [Firepower 70xx Family Rear View, page 2-5](#)
- [Firepower 70xx Family Physical and Environmental Parameters, page 2-5](#)

Firepower 70xx Family Front View

The front of the chassis contains the LCD panel, sensing interfaces, front panel, and management interface.

Figure 2-1 Firepower 70xx Family (Chassis: CHRY-1U-AC; NEME-1U-AC) Front View



The following table describes the features on the front of the appliance.

Table 2-1 Firepower 70xx Family System Components: Front View

Feature	Description
LCD panel	Operates in multiple modes to configure the device, display error messages, and view system status. For more information, see Using the LCD Panel on a Firepower Device, page 4-1 .
Sensing interfaces	Contain the sensing interfaces that connect to the network. For information, see Sensing Interfaces, page 2-4 .
10/100/1000 Ethernet management interface	Provides for an out-of-band management network connection. The management interface is used for maintenance and configuration purposes only and is not intended to carry service traffic.
Front panel	Houses LEDs that display the system's operating state, as well as various controls, such as the power button. For more information, see Table 2-11 Firepower 7110 and 7120 Front Panel Components, page 2-8 .

Figure 2-2 Firepower 70xx Family Front Panel

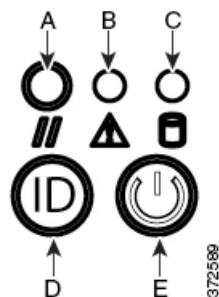


Table 2-2 Front Panel Components

A	Reset button	D	System ID button
B	System status LED	E	Power button and LED
C	Solid-state drive activity LED		

The front panel of the chassis houses LEDs, which display the system's operating state. The following table describes the LEDs on the front panel.

Table 2-3 Firepower 70xx Family Front Panel LEDs

LED	Description
Reset button	Allows you to reboot the appliance without disconnecting it from the power supply.
System status	Indicates the system status: <ul style="list-style-type: none"> • A green light indicates the system is powered up and operating normally, or powered down and attached to AC power. • An amber light indicates a system fault. See Table 2-4 on page 2-3 for more information.
Solid-state drive (SSD) activity	Indicates the SSD status: <ul style="list-style-type: none"> • A blinking green light indicates the fixed disk drive is active. • If the light is off, there is no drive activity or the system is powered off.
System ID	When pressed, the ID button displays a blue light, and a blue light is visible at the rear of the chassis.
Power button and LED	Indicates whether the appliance has power: <ul style="list-style-type: none"> • A green light indicates that the appliance has power and the system is on. • No light indicates the system is shut down or does not have power.

The following table describes the conditions under which the system status LEDs might be lit.

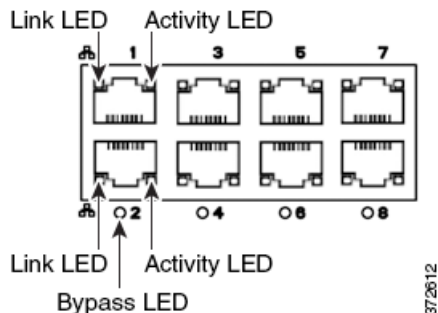
Table 2-4 Firepower 70xx Family System Status

Condition	Description
Critical	Any critical or non-recoverable threshold crossing associated with the following events: <ul style="list-style-type: none"> • temperature, voltage, or fan critical threshold crossing • power subsystem failure • system inability to power up due to incorrectly installed processors or processor incompatibility • critical event logging errors, including System Memory Uncorrectable ECC error and fatal/uncorrectable bus errors, such as PCI SERR and PERR
Non-critical	A non-critical condition is a threshold crossing associated with the following events: <ul style="list-style-type: none"> • temperature, voltage, or fan non-critical threshold crossing • Set Fault Indication command from system BIOS; the BIOS may use the command to indicate additional, non-critical status such as system memory or CPU configuration changes
Degraded	A degraded condition is associated with the following events: <ul style="list-style-type: none"> • one or more processors are disabled by Fault Resilient Boot (FRB) or BIOS • some system memory disabled or mapped out by BIOS • one of the power supplies unplugged or not functional

Sensing Interfaces

The Firepower 70xx Family appliances are delivered with eight copper interfaces, each with configurable bypass capability.

Figure 2-3 Eight-Port 1000BASE-T Copper Interfaces



Use the following table to understand the activity and link LEDs on the copper interfaces.

Table 2-5 Firepower 70xx Family Copper Link/Activity LEDs

Status	Description
Both LEDs off	The interface does not have link.
Link amber	The speed of the traffic on the interface is 10Mb or 100Mb.
Link green	The speed of the traffic on the interface is 1Gb.
Activity blinking green	The interface has link and is passing traffic.

Use the following table to understand bypass LEDs on the copper interfaces.

Table 2-6 Firepower 70xx Family Copper Bypass LEDs

Status	Description
Off	The interface pair is not in bypass mode or has no power.
Steady green	The interface pair is ready to enter bypass mode.
Steady amber	The interface pair has been placed in bypass mode intentionally, or has entered bypass mode gracefully, and is not inspecting traffic.
Blinking amber	The interface pair has unexpectedly entered bypass mode; that is, it has failed open.

The 10/100/1000 management interface is located on the front of the appliance. The following table describes the LEDs associated with the management interface.

Table 2-7 Firepower 70xx Family Management Interface LEDs

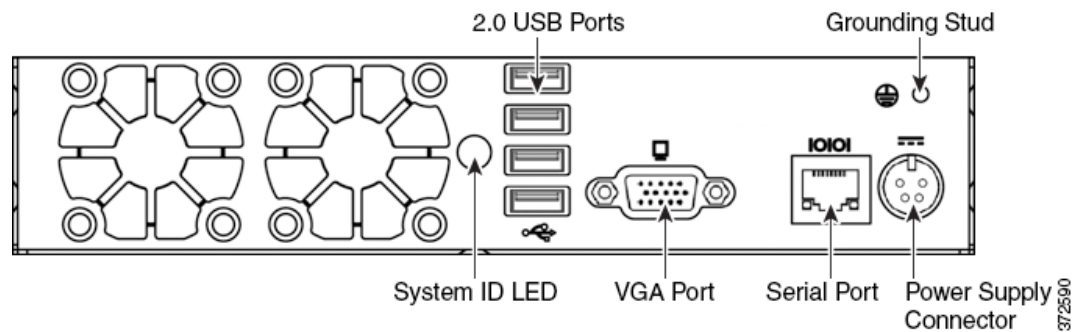
LED	Description	
Left (link)	7010/20/30	Indicates whether the link is up. If the light is on, the link is up. If the light is off, there is no link.
	7050	For 10Mbps links, the link light does not illuminate. Link status is shared with the right (activity) LED.

Table 2-7 Firepower 70xx Family Management Interface LEDs (continued)

LED	Description
Right (activity)	7010/20/30 Indicates activity on the port. If the light is blinking, there is activity. If the light is off, there is no activity.
	7050 For 10Mbps links, if the light is on, there is link and activity. If the light is off, there is no link or activity.

Firepower 70xx Family Rear View

The rear of the chassis contains the system ID LED, connection ports, grounding stud, and power supply connector.

Figure 2-4 Firepower 70xx Family (Chassis: CHRY-1U-AC) Rear View

The following table describes the features that appear on the rear of the appliance.

Table 2-8 Firepower 70xx Family System Components: Rear View

Feature	Description
System ID LED	Helps identify a system installed in a high-density rack with other similar systems. The blue LED indicates that the ID button is pressed.
2.0 USB ports VGA port Serial port	Allows you to attach a monitor and keyboard to the device to establish a direct workstation-to-appliance connection.
Grounding stud	Allows you to connect the appliance to the common bonding network. See the Power Requirements for Firepower 7000 Series Devices, page A-1 for more information.
12V Power supply connector	Provides a power connection to the device through an AC power source.

Firepower 70xx Family Physical and Environmental Parameters

The following table describes the physical attributes and the environmental parameters for the appliance.

Table 2-9 Firepower 70xx Family Physical and Environmental Parameters

Parameter	Description	
Form factor	1U, half rack width	
Dimensions (D x W x H)	Single chassis: 12.49 in. x 7.89 in. x 1.66 in. (31.74 cm x 20.04 cm x 4.21 cm) 2-Chassis Tray: 25.05 in. x 17.24 in. x 1.73 in. (63.62 cm x 43.8 cm x 4.44 cm)	
Chassis weight maximum installed	Chassis: 7 lbs (3.17 kg) Single chassis and power supply in tray: 17.7 lbs (8.03 kg) Double chassis and power supplies in single tray: 24.7 lbs (11.2 kg)	
Copper 1000BASE-T	Gigabit copper Ethernet bypass-capable interfaces in a paired configuration Cable and distance: Cat5E at 50 m	
Power supply	200 W AC power supply Voltage: 100 VAC to 240 VAC nominal (90 VAC to 264 VAC maximum) Current: 2A maximum over the full range Frequency range: 50/60 Hz nominal (47 Hz to 63 Hz maximum)	
Solid-state drive (SSD)	240GB 2.5-inch SSD	
Operating temperature	7010/20/30	32°F to 104°F (0°C to 40°C)
	7050	23°F to 104°F (-5°C to 40°C)
Non-operating temperature	7010/20/30	-4°F to 158°F (-20°C to 70°C)
	7050	14°F to 140°F (-10°C to 60°C)
Operating humidity	7010/20/30	5% to 95%, non-condensing Operation beyond these limits is not guaranteed and not recommended.
	7050	5% to 85%, non-condensing Operation beyond these limits is not guaranteed and not recommended.
Non-operating humidity	7010/20/30	0% to 95%, non-condensing
	7050	0% to 85%, non-condensing
	Store the unit below the maximum non-condensing relative humidity. Acclimate below maximum operating humidity at least 48 hours prior to placing the unit in service.	
Altitude	0 ft (sea level) to 5905 ft (0 m to 1800 m)	
Cooling requirements	682 BTU/hour You must provide sufficient cooling to maintain the appliance within its required operating temperature range. Failure to do this may cause a malfunction or damage to the appliance.	
Acoustic noise	53 dBA when idle. 62 dBA at full processor load	
Operating shock	No errors with half a sine wave shock of 5G (with 11 ms duration)	
Airflow	20 ft ³ (0.57 m ³) per minute Airflow through the appliance enters at the front and sides and exits at the rear.	

Firepower 7110 and 7120

The Firepower 7110 and 7120 devices, part of the 71xx Family, are 1U appliances, and are delivered with eight copper or eight fiber interfaces, each with configurable bypass capability. See the *Regulatory Compliance and Safety Information for FirePOWER and FireSIGHT Appliances* document for safety considerations for 71xx Family appliances.

See the following sections for more information:

- [Firepower 7110 and 7120 Chassis Front View, page 2-7](#)
- [Firepower 7110 and 7120 Chassis Rear View, page 2-11](#)
- [Firepower 7110 and 7120 Physical and Environmental Parameters, page 2-12](#)

Firepower 7110 and 7120 Chassis Front View

The front of the chassis contains the LCD panel, USB port, front panel, and either copper or fiber sensing interfaces.

Figure 2-5 Firepower 7110 and 7120 with Copper Interfaces (Chassis: GERY-1U-8-C-AC)

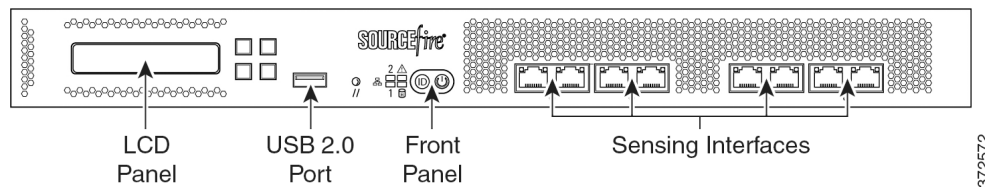
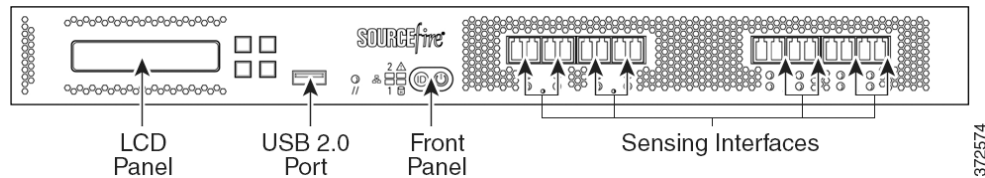


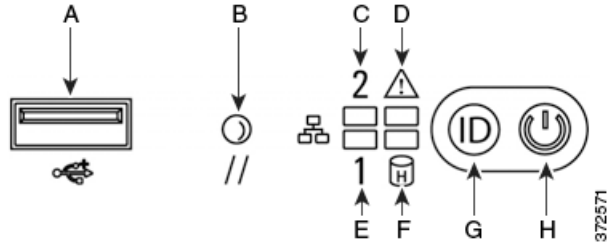
Figure 2-6 Firepower 7110 and 7120 with Fiber Interfaces (Chassis: GERY-1U-8-FM-AC)



The following table describes the features on the front of the appliance.

Table 2-10 Firepower 7110 and 7120 System Components: Front View

Feature	Description
LCD panel	Operates in multiple modes to configure the device, display error messages, and view system status. For more information, see Using the LCD Panel on a Firepower Device, page 4-1 .
Front panel USB 2.0 port	Allows you to attach a keyboard to the device.
Front panel	Houses LEDs that display the system’s operating state, as well as various controls, such as the power button. For more information, see Figure 2-7 Firepower 7110 and 7120 Front Panel, page 2-8 .
Sensing interfaces	Contain the sensing interfaces that connect to the network. For more information, see Firepower 7110 and 7120 Sensing Interfaces, page 2-9 .

Figure 2-7 Firepower 7110 and 7120 Front Panel**Table 2-11 Firepower 7110 and 7120 Front Panel Components**

A	USB 2.0 connector	E	NIC1 activity LED
B	Reset button	F	Solid-state drive activity LED
C	NIC2 activity LED	G	ID button
D	System status LED	H	Power button and LED


The front panel of the chassis houses LEDs, which display the system's operating state. The following table describes the LEDs on the front panel.

Table 2-12 Firepower 7110 and 7120 Front Panel LEDs

LED	Description
NIC activity (1 and 2)	Indicates whether there is any network activity: <ul style="list-style-type: none"> A green light indicates there is network activity. No light indicates there is no network activity.
System status	Indicates the system status: <ul style="list-style-type: none"> No light indicates the system is operating normally, or is powered off. A red light indicates a system error. See the Table 2-13 Firepower 7110 and 7120 System Status, page 2-9 for more information.
Reset button	Allows you to reboot the appliance without disconnecting it from the power supply.
Solid-state drive (SSD) activity	Indicates the SSD status: <ul style="list-style-type: none"> A blinking green light indicates the fixed disk drive is active. An amber light indicates a fixed disk drive fault. If the light is off, there is no drive activity or the system is powered off.
System ID	Helps identify a system installed in a high-density rack with other similar systems: <ul style="list-style-type: none"> A blue light indicates the ID button is pressed and a blue light is on at the rear of the appliance. No light indicates the ID button is not pressed.
Power button and LED	Indicates whether the appliance has power: <ul style="list-style-type: none"> A green light indicates that the appliance has power and the system is on. A blinking green light indicates that the appliance has power and is shut down. If the light is off, the system does not have power.

The following table describes the conditions under which the system status LEDs might be lit.

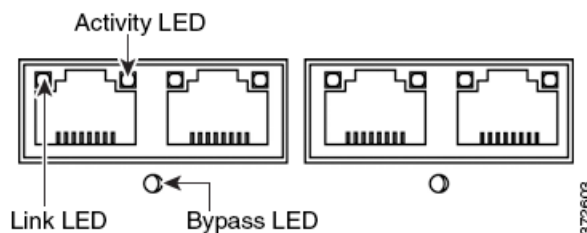
Table 2-13 Firepower 7110 and 7120 System Status

Condition	Description
Critical	Any critical or non-recoverable threshold crossing associated with the following events: <ul style="list-style-type: none"> temperature, voltage, or fan critical threshold crossing power subsystem failure system inability to power up due to incorrectly installed processors or processor incompatibility critical event logging errors, including System Memory Uncorrectable ECC error and fatal/uncorrectable bus errors, such as PCI SERR and PERR
Non-critical	A non-critical condition is a threshold crossing associated with the following events: <ul style="list-style-type: none"> temperature, voltage, or fan non-critical threshold crossing chassis intrusion Set fault indication command from system BIOS; the BIOS may use the command to indicate additional non-critical status such as system memory or CPU configuration changes
Degraded	Any degraded condition is associated with the following events: <ul style="list-style-type: none"> one or more processors are disabled by Fault Resilient Boot (FRB) or BIOS some system memory disabled or mapped out by BIOS one of the power supplies unplugged or not functional <p>Tip If you observe a degraded condition indication, check your power supply connections first. Power down the device, disconnect both power cords, reconnect the power cords to reseal them, then restart the device.</p> <p>Caution  To power down safely, use the procedure in the Managing Devices chapter in the <i>Firepower Management Center Configuration Guide</i>, or the <code>system shutdown</code> command from the CLI.</p>

Firepower 7110 and 7120 Sensing Interfaces

The Firepower 7110 and 7120 devices are delivered with eight-port copper or eight-port fiber interfaces, each with configurable bypass capability.

Figure 2-8 Eight-Port 1000BASE-T Copper Interfaces



Use the following table to understand the activity and link LEDs on the copper interfaces.

Table 2-14 Firepower 7110 and 7120 Copper Link/Activity LEDs

Status	Description
Both LEDs off	The interface does not have link.
Link amber	The speed of the traffic on the interface is 10Mb or 100Mb.
Link green	The speed of the traffic on the interface is 1Gb.
Activity blinking green	The interface has link and is passing traffic.

Use the following table to understand the bypass LED on the copper interfaces.

Table 2-15 Firepower 7110 and 7120 Copper Bypass LED

Status	Description
Off	The interface pair is not in bypass mode or has no power.
Steady green	The interface pair is ready to enter bypass mode.
Steady amber	The interface pair has been placed in bypass mode and is not inspecting traffic.
Blinking amber	The interface pair is in bypass mode; that is, it has failed open.

Figure 2-9 Eight-Port 100BASE-SX Fiber Configurable Bypass Interfaces



Use the following table to understand the link and activity LEDs on the fiber interfaces.

Table 2-16 Firepower 7110 and 7120 Fiber Link/Activity LEDs

Status	Description
Top (activity)	For an inline interface: the light is on when the interface has activity. If dark, there is no activity. For a passive interface: the light is non-functional.
Bottom (link)	For an inline or passive interface: the light is on when the interface has link. If dark, there is no link.

Use the following table to understand the activity and link LEDs on the fiber interfaces.

Table 2-17 Firepower 7110 and 7120 Fiber Bypass LEDs

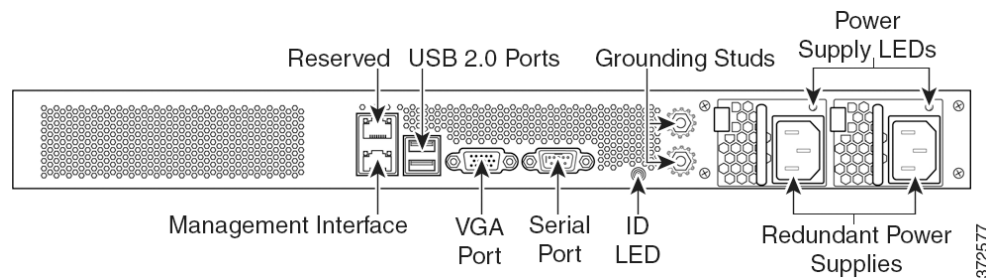
Status	Description
Off	The interface pair is not in bypass mode or has no power.
Steady green	The interface pair is ready to enter bypass mode.

Table 2-17 Firepower 7110 and 7120 Fiber Bypass LEDs (continued)

Status	Description
Steady amber	The interface pair has been placed in bypass mode and is not inspecting traffic.
Blinking amber	The interface pair is in bypass mode; that is, it has failed open.

Firepower 7110 and 7120 Chassis Rear View

The rear of the chassis contains the management interface, connection ports, grounding studs, and power supplies.

Figure 2-10 Firepower 7110 and 7120 (Chassis: GERY-1U-8-C-AC or GERY-1U-8-FM-AC) Rear View

The following table describes the features that appear on the rear of the appliance.

Table 2-18 Firepower 7110 and 7120 System Components: Rear View

Features	Description
VGA port USB port	Allows you to attach a monitor, keyboard, and mouse to the device to establish a direct workstation-to-appliance connection.
10/100/1000 Ethernet management interface	Provides for an out-of-band management network connection. The management interface is used for maintenance and configuration purposes only and is not intended to carry service traffic.
System ID LED	Helps identify a system installed in a high-density rack with other similar systems. The blue light indicates that the ID button is pressed.
Grounding studs	Allows you to connect the appliance to the Common Bonding Network. See the Power Requirements for Firepower 7000 Series Devices, page A-1 for more information.
Redundant power supplies	Provides power to the device through an AC power source. Looking at the rear of the chassis, power supply #1 is on the left and power supply #2 is on the right.
Power supply LEDs	Indicates the status of the power supply. See Table 2-20 Firepower 7110 and 7120 Power Supply LED, page 2-12 .

The 10/100/1000 management interface is located on the rear of the appliance. The following table describes the LEDs associated with the management interface.

Table 2-19 Firepower 7110 and 7120 Management Interface LEDs

LED	Description
Left (activity)	Indicates activity on the port: <ul style="list-style-type: none"> • A blinking light indicates activity. • No light indicates there is no activity.
Right (link)	Indicates whether the link is up: <ul style="list-style-type: none"> • A light indicates the link is up. • No light indicates there is no link.

The power supply modules are located on the rear of the appliance. The following table describes the LED associated with the power supply.

Table 2-20 Firepower 7110 and 7120 Power Supply LED

LED	Description
Off	The power cord is not plugged in.
Red	No power supplied to this module. or A power supply critical event, such as module failure, a blown fuse, or a fan failure; the power supply shuts down.
Blinking red	A power supply warning event, such as high temperature or a slow fan; the power supply continues to operate.
Blinking green	AC input is present; volts on standby, the power supply is switched off.
Green	The power supply is plugged in and on.

Firepower 7110 and 7120 Physical and Environmental Parameters

The following table describes the physical attributes and the environmental parameters for the appliance.

Table 2-21 Firepower 7110 and 7120 Physical and Environmental Parameters

Parameter	Description
Form factor	1U
Dimensions (D x W x H)	21.6 in. x 19.0 in. x 1.73 in. (54.9 cm x 48.3 cm x 4.4 cm)
Weight maximum installed	27.5 lbs (12.5 kg)
Copper 1000BASE-T	Gigabit copper Ethernet bypass-capable interfaces in a paired configuration Cable and distance: Cat5E at 50 m
Fiber 1000BASE-SX	Fiber bypass-capable interfaces with LC connectors Cable and distance: SX is multimode fiber (850 nm) at 550 m (standard)

Table 2-21 Firepower 7110 and 7120 Physical and Environmental Parameters (continued)

Parameter	Description
Power supply	450 W dual redundant (1+1) AC power supplies Voltage: 100 VAC to 240 VAC nominal (85 VAC to 264 VAC maximum) Current: 3A maximum for 90 VAC to 132 VAC, per supply 1.5A maximum for 187 VAC to 264 VAC, per supply Frequency range: 47 Hz to 63 Hz
Solid-state drive (SSD)	240GB 2.5-inch SSD.
Operating temperature	41°F to 104°F (5°C to 40°C)
Non-operating temperature	-29°F to 158°F (-20°C to 70°C)
Operating humidity	5% to 85% non-condensing
Non-operating humidity	5% to 90%, non-condensing with a maximum wet bulb of 82°F (28°C) at temperatures from 77°F to 95°F (25°C to 35°C) Store the unit below 95% non-condensing relative humidity. Acclimate below maximum operating humidity at least 48 hours before placing the unit in service.
Altitude	0ft (sea level) to 5905 ft (0 m to 1800 m)
Cooling requirements	900 BTU/hour You must provide sufficient cooling to maintain the appliance within its required operating temperature range. Failure to do this may cause a malfunction or damage to the appliance.
Acoustic noise	64 dBA at full processor load, normal fan operation Meets GR-63-CORE 4.6 Acoustic Noise
Operating shock	Complies with Bellecore GR-63-CORE standards
Airflow	140 ft ³ (3.9 m ³) per minute Airflow through the appliance enters at the front and exits at the rear with no side ventilation.

Firepower 7115, 7125, and AMP7150

The Firepower 7115, 7125, and AMP7150 devices, part of the 71xx Family, are delivered with four-port copper interfaces with configurable bypass capability, and eight hot-swappable small form-factor pluggable (SFP) ports without bypass capability. To ensure compatibility, use only Cisco SFP transceivers.



Note

The Firepower AMP7150 has many of the same form factors as the Firepower 7115 and 7125, but has been optimized to take advantage of the Firepower System's AMP for Networks capabilities.

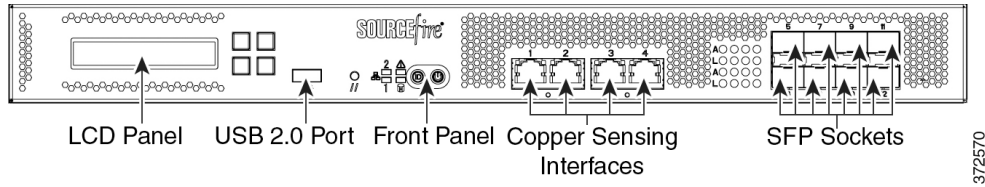
See the following sections for more information:

- [Firepower 7115, 7125, and AMP7150 Chassis Front View, page 2-14](#)
- [Firepower 7115, 7125, and AMP7150 Chassis Rear View, page 2-18](#)
- [Firepower 7115, 7125, and AMP7150 Physical and Environmental Parameters, page 2-20](#)

Firepower 7115, 7125, and AMP7150 Chassis Front View

The front of the chassis contains the LCD panel, USB port, front panel, copper sensing interfaces, and SFP sockets.

Figure 2-11 Firepower 7115, 7125, and AMP7150 (Chassis: GERY-1U-8-4C8S-AC) Front View



The following table describes the features on the front of the appliance.

Table 2-22 Firepower 7115, 7125, and AMP7150 System Components: Front View

Feature	Description
LCD panel	Operates in multiple modes to configure the device, display error messages, and view system status. For more information, see Using the LCD Panel on a Firepower Device, page 4-1 .
Front panel USB 2.0 port	Allows you to attach a keyboard to the device.
Front panel	Houses LEDs that display the system’s operating state, as well as various controls, such as the power button. For more information, see Figure 2-12 Firepower 7115, 7125, and AMP7150 Front Panel, page 2-14 .
Sensing interfaces	Contain the sensing interfaces that connect to the network. For more information, see Firepower 7115, 7125, and AMP7150 Sensing Interfaces, page 2-16 .

Figure 2-12 Firepower 7115, 7125, and AMP7150 Front Panel

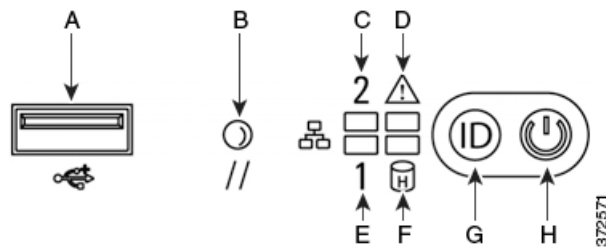


Table 2-23 Firepower 7115, 7125, and AMP7150 Front Panel Components

A	USB 2.0 connector	E	NIC1 activity LED
B	Reset button	F	Solid-state drive activity LED
C	NIC2 activity LED	G	ID button
D	System status LED	H	Power button and LED


The front panel of the chassis houses LEDs, which display the system’s operating state. The following table describes the LEDs on the front panel.

Table 2-24 Firepower 7115, 7125, and AMP7150 Front Panel LEDs

LED	Description
NIC activity (1 and 2)	Indicates whether there is any network activity: <ul style="list-style-type: none"> • A green light indicates there is network activity. • No light indicates there is no network activity.
System status	Indicates the system status: <ul style="list-style-type: none"> • No light indicates the system is operating normally, or is powered off. • A red light indicates a system error. See the Table 2-25 Firepower 7115, 7125, and AMP7150 System Status, page 2-16 for more information.
Reset button	Allows you to reboot the appliance without disconnecting it from the power supply.
Solid-state drive (SSD) activity	Indicates the SSD status: <ul style="list-style-type: none"> • A blinking green light indicates the fixed disk drive is active. • An amber light indicates a fixed disk drive fault. • If the light is off, there is no drive activity or the system is powered off.
System ID	Helps identify a system installed in a high-density rack with other similar systems: <ul style="list-style-type: none"> • A blue light indicates the ID button is pressed and a blue light is on at the rear of the appliance. • No light indicates the ID button is not pressed.
Power button and LED	Indicates whether the appliance has power: <ul style="list-style-type: none"> • A green light indicates that the appliance has power and the system is on. • A blinking green light indicates that the appliance has power and is shut down. • No light indicates the system does not have power.

The following table describes the conditions under which the system status LEDs might be lit.

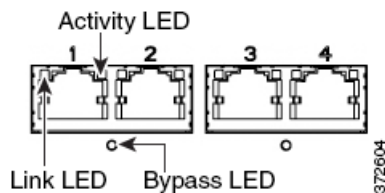
Table 2-25 Firepower 7115, 7125, and AMP7150 System Status

Condition	Description
Critical	<p>Any critical or non-recoverable threshold crossing associated with the following events:</p> <ul style="list-style-type: none"> temperature, voltage, or fan critical threshold crossing power subsystem failure system inability to power up due to incorrectly installed processors or processor incompatibility critical event logging errors, including System Memory Uncorrectable ECC error and fatal/uncorrectable bus errors, such as PCI SERR and PERR
Non-critical	<p>A non-critical condition is a threshold crossing associated with the following events:</p> <ul style="list-style-type: none"> temperature, voltage, or fan non-critical threshold crossing chassis intrusion Set Fault Indication command from system BIOS; the BIOS may use the command to indicate additional non-critical status such as system memory or CPU configuration changes
Degraded	<p>Any degraded condition is associated with the following events:</p> <ul style="list-style-type: none"> one or more processors are disabled by Fault Resilient Boot (FRB) or BIOS some system memory disabled or mapped out by BIOS one of the power supplies unplugged or not functional <p>Tip If you observe a degraded condition indication, check your power supply connections first. Power down the device, disconnect both power cords, reconnect the power cords to reseat them, then restart the device.</p> <p>Caution  To power down safely, use the procedure in the Managing Devices chapter in the <i>Firepower Management Center Configuration Guide</i>, or the <code>system shutdown</code> command from the CLI.</p>

Firepower 7115, 7125, and AMP7150 Sensing Interfaces

The Firepower 7115, 7125, and AMP7150 devices are delivered with four-port copper interfaces with configurable bypass capability, and eight hot-swappable small form-factor pluggable (SFP) ports without bypass capability.

Figure 2-13 Four 1000BASE-T Copper Interfaces



Use the following table to understand the link and activity LEDs on copper interfaces.

Table 2-26 Firepower 7115, 7125, and AMP7150 Copper Link/Activity LEDs

Status	Description
Both LEDs off	The interface does not have link.
Link amber	The speed of the traffic on the interface is 10Mb or 100Mb.
Link green	The speed of the traffic on the interface is 1Gb.
Activity blinking green	The interface has link and is passing traffic.

Use the following table to understand the bypass LED on copper interfaces.

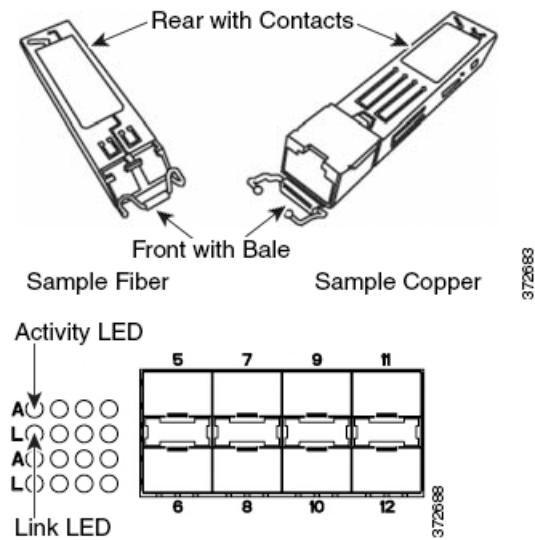
Table 2-27 Firepower 7115, 7125, and AMP7150 Copper Bypass LED

Status	Description
Off	The interface pair is not in bypass mode or has no power.
Steady green	The interface pair is ready to enter bypass mode.
Steady amber	The interface pair has been placed in bypass mode and is not inspecting traffic.
Blinking amber	The interface pair is in bypass mode; that is, it has failed open.

SFP Interfaces

You can install up to eight hot-swappable Cisco SFP transceivers, available in 1G copper, 1G short range fiber, or 1G long range fiber. SFP transceivers do not have bypass capability and should not be used in intrusion prevention deployments. See [Using SFP Transceivers in Firepower 71x5 and AMP7150 Devices, page B-1](#) for more information.

Figure 2-14 Sample SFP Transceivers



Use the following table to understand the fiber LEDs.

Table 2-28 Firepower 7115, 7125, and AMP7150 SFP Socket Activity/Link LEDs

Status	Description
Top (activity)	For an inline interface: the light is on when the interface has activity. If dark, there is no activity. For a passive interface: the light is non-functional.
Bottom (link)	For an inline or passive interface: the light is on when the interface has link. If dark, there is no link.

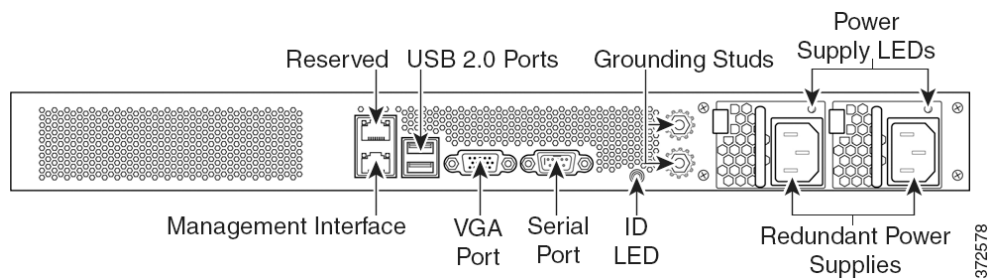
Use the following table to understand the specifications of the SFP optical transceivers.

Table 2-29 Firepower 7115, 7125, and AMP7150 SFP Optical Parameters

Parameter	1000BASE-SX	1000BASE-LX
Optical connectors	LC duplex	LC duplex
Bit rate	1000Mbps	1000Mbps
Baud rate/encoding/tolerance	1250Mbps 8b/10b encoding	1250Mbps 8b/10b encoding
Optical interface	Multimode	Single mode only
Operating distances	656 ft (200 m) for 62.5 μ m/125 μ m fiber 1640 ft (500 m) for 50 μ m/125 μ m fiber	6.2 miles (10 km) for 9 μ m/125 μ m fiber
Transmitter wavelength	770-860 nm (850 nm typical)	1270-1355 nm (1310 nm typical)
Maximum average launch power	0 dBm	-3 dBm
Minimum average launch power	-9.5 dBm	-11.5 dBm
Maximum average power at receiver	0 dBm	-3 dBm
Receiver sensitivity	-17 dBm	-19 dBm

Firepower 7115, 7125, and AMP7150 Chassis Rear View

The rear of the chassis contains the management interface, connection ports, grounding studs, and power supplies.

Figure 2-15 Firepower 7115, 7125, and AMP7150 (Chassis: GERY-1U-8-4C8S-AC) Rear View

The following table describes the features that appear on the rear of the appliance.

Table 2-30 Firepower 7115, 7125 and AMP7150 System Components: Rear View

Features	Description
VGA port USB port	Allows you to attach a monitor, keyboard, and mouse to the device to establish a direct workstation-to-appliance connection.
10/100/1000 Ethernet management interface	Provides for an out-of-band management network connection. The management interface is used for maintenance and configuration purposes only and is not intended to carry service traffic.
System ID LED	Helps identify a system installed in a high-density rack with other similar systems. The blue light indicates that the ID button is pressed.
Grounding studs	Allows you to connect the appliance to the Common Bonding Network. See the Power Requirements for Firepower 7000 Series Devices, page A-1 for more information.
Redundant power supplies	Provides power to the device through an AC power source. Looking at the rear of the chassis, power supply #1 is on the left and power supply #2 is on the right.
Power supply LEDs	Indicates the status of the power supply. See Table 2-32 Firepower 7115, 7125, and AMP7150 Power Supply LED, page 2-19 .

The 10/100/1000 management interface is located on the rear of the appliance. The following table describes the LEDs associated with the management interface.

Table 2-31 Firepower 7115, 7125, and AMP7150 Management Interface LEDs

LED	Description
Left (activity)	Indicates activity on the port: <ul style="list-style-type: none"> • A blinking light indicates activity. • No light indicates there is no activity.
Right (link)	Indicates whether the link is up: <ul style="list-style-type: none"> • A light indicates the link is up. • No light indicates there is no link.

The power supply modules are located on the rear of the appliance. The following table describes the LED associated with the power supply.

Table 2-32 Firepower 7115, 7125, and AMP7150 Power Supply LED

LED	Description
Off	The power cord is not plugged in.
Red	No power supplied to this module. or A power supply critical event, such as module failure, a blown fuse, or a fan failure; the power supply shuts down.
Blinking red	A power supply warning event, such as high temperature or a slow fan; the power supply continues to operate.

Table 2-32 Firepower 7115, 7125, and AMP7150 Power Supply LED (continued)

LED	Description
Blinking green	AC input is present; volts on standby, the power supply is switched off.
Green	The power supply is plugged in and on.

Firepower 7115, 7125, and AMP7150 Physical and Environmental Parameters

The following table describes the physical attributes and the environmental parameters for the appliance.

Table 2-33 Firepower 7115, 7125, and AMP7150 Physical and Environmental Parameters

Parameter	Description
Form factor	1U
Dimensions (D x W x H)	21.6 in. x 19.0 in. x 1.73 in. (54.9 cm x 48.3 cm x 4.4 cm)
Weight maximum installed	29.0 lbs (13.2 kg)
Copper 1000BASE-T	Gigabit copper Ethernet bypass-capable interfaces in a paired configuration Cable and distance: Cat5E at 50 m
Copper 1000BASE-T SFP	Gigabit copper Ethernet non-bypass capable interfaces in a paired configuration Cable and distance: Cat5E at 50 m
Fiber 1000BASE-SX SFP	Fiber non-bypass capable interfaces with LC connectors Cable and distance: SX is multimode fiber (850 nm) at 550 m (standard) 656 ft (200 m) for 62.5 μ m/125 μ m fiber 1640 ft (500 m) for 50 μ m/125 μ m fiber
Fiber 1000BASE-LX SFP	Fiber non-bypass capable interfaces with LC connectors Cable and distance: LX is single mode fiber (1310 nm) at 10 km for 9 μ m/125 μ m fiber (standard)
Power supply	450 W dual redundant (1+1) AC power supplies Voltage: 100 VAC to 240 VAC nominal (85 VAC to 264 VAC maximum) Current: 3A maximum for 90 VAC to 132 VAC, per supply 1.5A maximum for 187 VAC to 264 VAC, per supply Frequency range: 47 Hz to 63 Hz
Solid-state drive (SSD)	240GB 2.5-inch SSD.
Operating temperature	41°F to 104°F (5°C to 40°C)
Non-operating temperature	-29°F to 158°F (-20°C to 70°C)
Operating humidity	5% to 85% non-condensing
Non-operating humidity	5% to 90%, non-condensing with a maximum wet bulb of 82°F (28°C) at temperatures from 77°F to 95°F (25°C to 35°C) Store the unit below 95% non-condensing relative humidity. Acclimate below maximum operating humidity at least 48 hours before placing the unit in service.
Altitude	0ft (sea level) to 5905 ft (0 m to 1800 m)

Table 2-33 *Firepower 7115, 7125, and AMP7150 Physical and Environmental Parameters (continued)*

Parameter	Description
Cooling requirements	900 BTU/hour You must provide sufficient cooling to maintain the appliance within its required operating temperature range. Failure to do this may cause a malfunction or damage to the appliance.
Acoustic noise	64 dBA at full processor load, normal fan operation Meets GR-63-CORE 4.6 Acoustic Noise
Operating shock	Complies with Bellecore GR-63-CORE standards
Airflow	140 ft ³ (3.9 m ³) per minute Airflow through the appliance enters at the front and exits at the rear with no side ventilation.

