FORCEPOINT

Stonesoft Next Generation Firewall

Hardware Guide

Model 320X

Revision C

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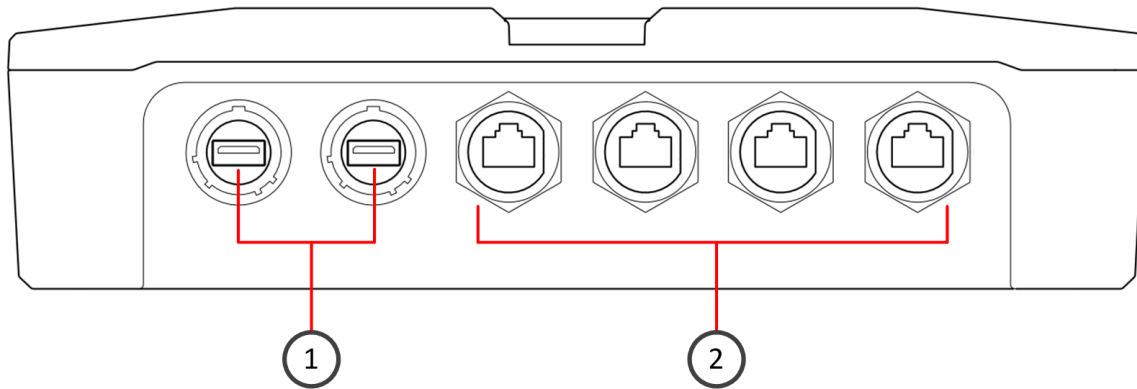# Appliance features

Familiarize yourself with the front panel, back panel, and indicator lights.

Front panel

The front panel contains the Ethernet ports and the USB ports.

Figure 1: 320X appliance front panel

1.	USB ports
2.	Ethernet ports 0–3

Back panel

The back panel contains connection ports and indicator lights.
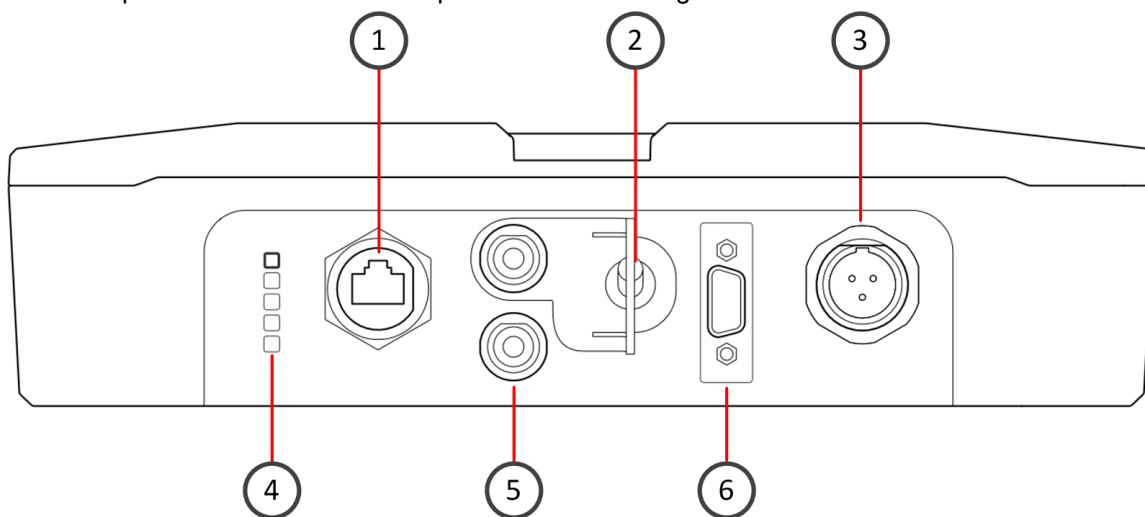
Figure 2: 320X appliance back panel

1.	Console port (speed 9600 bps)
2.	Power switch

3. Power connector
4. Indicator lights
5. WLAN ports
6. VGA port (C1 model only)

Indicator lights

The indicator lights show the appliance connection and activity status.
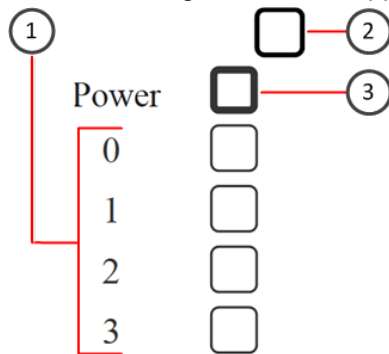
Figure 3: 320X appliance back panel indicator lights

Number	Indicator	Status	Definition
1	Ethernet ports 0–3	Unlit	No link.
		Green	Link OK.
2	Heating	Unlit	The heating system is off.
		Red	The heating system is on.
3	Power	Unlit	No power is supplied.
		Green	Power is supplied to the power supply unit and the system is operating normally.

The heating indicator light shows the status of the built-in heating system. The heating system is fully automatic and the status does not affect using the appliance. The appliance can be switched on or off regardless of the heating system status. See *Safety precautions*.

Precautions

The precautions provide safety guidance when working with Forcepoint appliances and electrical equipment.

Safety precautions

Read the safety information and follow the procedures whenever you are working with electronic equipment.

⚠️ **CAUTION:** Forcepoint appliances cannot be serviced by end users. Never open the appliance covers for any reason. Doing so can lead to serious injury and void the hardware warranty.

General safety

Follow these rules to ensure general safety.

- Keep the area around the appliance clean and free of clutter.
- Use a regulating uninterruptible power supply (UPS) to keep your system operating if there is a power failure and to protect the appliance from power surges and voltage spikes.
- If you need to switch off or unplug the appliance, always wait at least five seconds before turning on or plugging in the appliance again.

Operating precautions

- **Power supplies** — Do not open the power supply casing. Only the manufacturer's qualified technician can access and service power supplies.
- **Operating and storage temperatures** — The Stonesoft Next Generation Firewall 320X appliance has a built-in heating system, which is active when the appliance is connected to a power supply and the power switch is in the ON position. The heating system turns on automatically when the internal temperature of the appliance is below 0°C and it heats the internal parts of the appliance until the internal temperature rises above 0°C. The status of the heating system does not affect the use of the appliance. The appliance's back panel has an indicator light that shows the status of the heating system.
- **WLAN precautions** — Data traffic by a wireless connection might allow unauthorized third parties to receive data. Take the necessary steps to secure your radio network. See http://www.wi-fi.org for information about securing your WLAN.

  Restrictions and requirements might apply for authorizing wireless devices. Check with your local authorities for additional information.

Additional safety information can be provided upon request.

Electrical safety precautions

Follow basic electrical safety precautions to protect yourself from harm and the appliance from damage.

- Know the locations of the power on/off button and the emergency turn-off switch, disconnection switch, or electrical outlet for the room. If an electrical accident occurs, you can quickly turn off power to the system.
- When working with high-voltage components, do not work alone.
- When working with electrical equipment that is turned on, use only one hand. This is to avoid making a complete circuit, which causes an electric shock. Use extreme caution when using metal tools, which can easily damage any electrical components or circuit boards the tools come into contact with.
- Do not use mats designed to decrease electrostatic discharge as protection from electric shock. Instead, use rubber mats that have been designed as electrical insulators.

Power supply safety precautions

Depending on the type of power supply that your Stonesoft NGFW appliance uses, different safety precautions and installation guidelines apply.

Power supply

This appliance uses a DC power supply. Follow these guidelines for safe installation and use.

- The appliance must be used in a restricted access location and users must be well trained to operate it.
- The outlet for the appliance must be installed near the appliance and be easily accessible.
- The appliance must be protected against electric shock and must have, at minimum, a 15 AWG wire provided for the DC power supply.
- The mains supply plug on the power supply cable is the disconnect device on the appliance. To disconnect the appliance, you must first disconnect the mains, then disconnect the ground.

Install the appliance

Prepare and install the appliance in your network.

- You have installed a Stonesoft Management Center (SMC) on a separate server.
- You have configured the Firewall element in the Management Client, and saved the initial configuration on a USB drive.

> 📝 **Note:** For additional information on SMC installation and initial configuration, see the *Stonesoft Next Generation Firewall Installation Guide*.

- You have inspected the appliance, the delivery box, and all components included in the shipment.
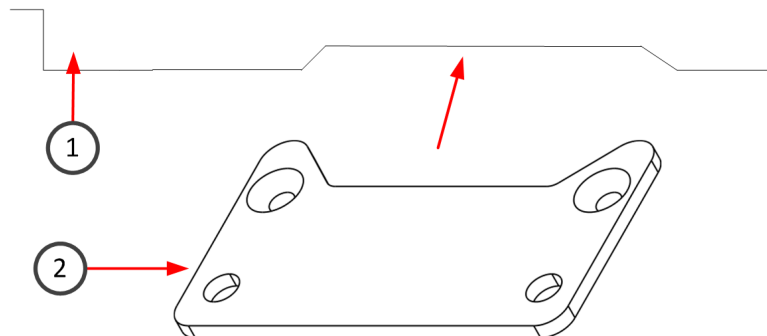
> 📝 **Note:** Do not use damaged appliances or components.

Mount the appliance

You can mount the appliance to a wall or place the appliance on a horizontal surface such as a desk or rack shelf.

The appliance delivery includes mounting brackets and screws for attaching the brackets to the appliance.

Figure 4: 320X appliance mounting

1.	Appliance
2.	Mounting bracket

1. Locate the bracket and the two screws.
2. Use a screwdriver to remove the four rubber plugs from the bottom of the appliance.
3. Line up the two smaller holes in the bracket with the two holes at the bottom of the appliance.
4. Use the screws to attach the bracket to the bottom of the appliance.
5. Attach the other bracket to the bottom of the appliance.
6. Use two screws to attach the bracket to a wall through the larger holes in the bracket (additional screws are not included in the shipment).

> 📝 **Note:** Mount the appliance so that you can easily view the indicators on the front panel.

Connect antennas and cables

Connect the antennas, power supply cable, and network cables.

Network settings and cables

Follow these network settings and cable guidelines.

Copper cable types

Use at least CAT5e-rated cables for gigabit networks.

320X appliances use these cable types:

- MIL320-RJ45-10M
- MIL320-RJ45-1M
- MIL320-RJ45-2M
- MIL320-RJ45-5M

Speed and duplex settings

Network interfaces at both ends of each cable must have identical speed and duplex settings. This includes the automatic negotiation setting. If one end of the cable uses autonegotiation, the other end must also use autonegotiation. Gigabit standards require interfaces to use autonegotiation — fixed settings are not allowed at gigabit speeds.

Connect network and management cables

Connect the appliance to your networks. The management connection allows you to view the system console.

> **Note:** Ethernet ports are mapped to interface IDs during the initial configuration. The ports and port numbers of the physical appliance must match the interface definitions and interface IDs configured for the engine in the Management Client.

1. Determine which Ethernet ports to use and connect the ports to your networks.
2. Select one of these options for the management connection:

   - Connect a monitor to the VGA port on the back panel of the appliance and a keyboard to a USB port on the front panel.
   - Connect the supplied serial null-modem cable to the console port on the back panel of the appliance and to another computer for a terminal connection.

Connect the antennas

The 320X appliance ships with two WLAN antennas and 1–2 optional magnetic car antennas and extension cables.
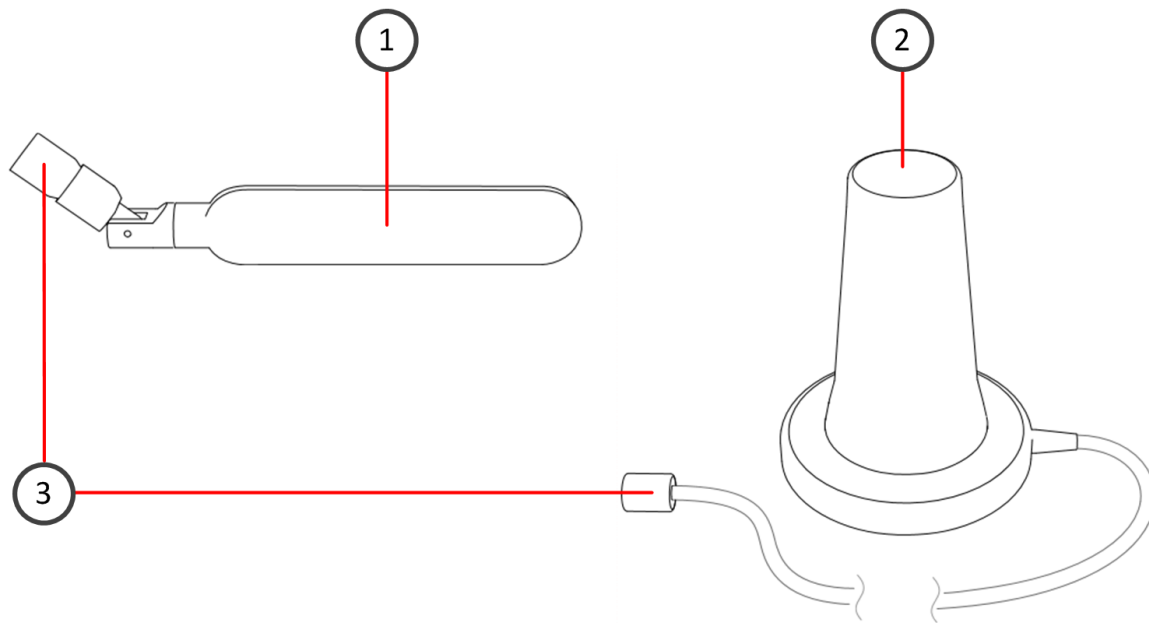
Figure 5: 320X appliance car antennas

1. WLAN antenna
2. Car antenna
3. WLAN plug

For optimal performance, we recommend that you use two antennas.

> **Note:** The supported frequencies of the WLAN antennas are 2.4 GHz and 5 GHz. The supported frequency of the car antennas is 2.4 GHz.

1. Determine whether to use the WLAN or the car antennas.

   > **Note:** You cannot use the WLAN and the car antennas at the same time.

2. Install the WLAN antennas.
   1. Connect the two WLAN antennas to the two WLAN ports on the back panel of the appliance. Tighten the knurled nuts at the base of the antennas to secure them firmly to the appliance.
   2. Position the antennas so they are not in direct contact with other objects or surfaces.
3. Install the magnetic car antennas.
   1. (Optional) Connect the antenna extension cables to the WLAN connectors in the cables of the car antennas.
   2. Connect each cable to a WLAN port on the back panel of the appliance. Tighten the knurled nuts at the base of the cable to secure it firmly to the appliance.
   3. Attach the antennas to a metal surface.

      > **Note:** Aside from the antenna mounting surface, the antennas should not be in direct contact with other objects or surfaces.

Connect the power supply

Use the power cable to plug in the appliance.

> 📝 **Note:** We recommend using a UPS to ensure continuous operation and minimize the risk of damage to the appliance in case of sudden loss of power.

1. Connect the power cable to the power connector on the back panel of the appliance.
2. Plug the power cable into a grounded, high-quality power strip that offers protection from electrical noise and power surges.

Compliance information

Stonesoft NGFW appliances that have wireless support are in compliance with the EMC directive (2014/30/EU) and the FCC standard (FCC Part 15) for wireless devices intended for home and office use.

This information is valid for all dual band products (2.4 GHz, IEEE 802.11b/g/n, and 5 GHz, IEEE 802.11n).

The supported channels and frequencies for Stonesoft NGFW appliances are listed by country in the Management Client. The wireless configuration is transferred to the appliance when you install the policy on the engine.

Applied technologies

The appliance uses these technologies.

- **Radio spectrum** — Sub-bands 2400–2483,5 MHz, 5150–5250 MHz, 5250–5350 MHz, and 5470–5725 MHz
- **Safety** — Dual band products
- **Electromagnetic Compatibility (EMC)** — Dual band products

National restrictions and requirements for authorization

These appliances can be operated within FCC DFS2 band or ETSI/EC DFS band, or other countries that regulate or plan to regulate mid-5 GHz band.

The usage of mid-5 GHz band is subject to the regulatory approval alone with the resided devices.

The requirements for any country or area might change. We recommend that you check with your local authorities for the latest status of national requirements for 2.4 GHz and 5 GHz wireless LANs.

Find product documentation

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You can get additional information and support for your product on the Forcepoint support website at https://support.forcepoint.com. There, you can access product documentation, Knowledge Base articles, downloads, cases, and contact information.