



# Install your TPS 440T and 2200T security devices

This information provides detailed installation instructions for your Threat Protection System (TPS) 440T and 2200T security devices.

## Before you begin

Before you begin, refer the documentation for your product to:

- Review the product release notes for information about product updates.
- Review the detailed installation and safety documentation for your product.

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**Important:** The 440T and 2200T security devices may require a license update to ensure sufficient inspection throughput when you connect to your network. For more information, see [“Step 9. Install your license package,”](#) on page 6.

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- Make sure the power capacity for your installation meets the documented requirements:
  - 440T device: AC Voltage 100 to 240; Current 4 to 2 A; Frequency 47 to 63 Hz
  - 2200T device: AC Voltage 100 to 240; Current 12 to 6 A; Frequency 47 to 63 Hz

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**Warning:** Before you turn on power for your product or connect to your network, ensure your installation meets all power capacity, ventilation, and other safety guidelines. To avoid injury and damage, you should always review and adhere to all guidelines described in the safety, specification, and installation documentation. For more information, see the *Read Me First* document that was included in your product shipment.

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# Overview

Your TPS security device ships with the following components:

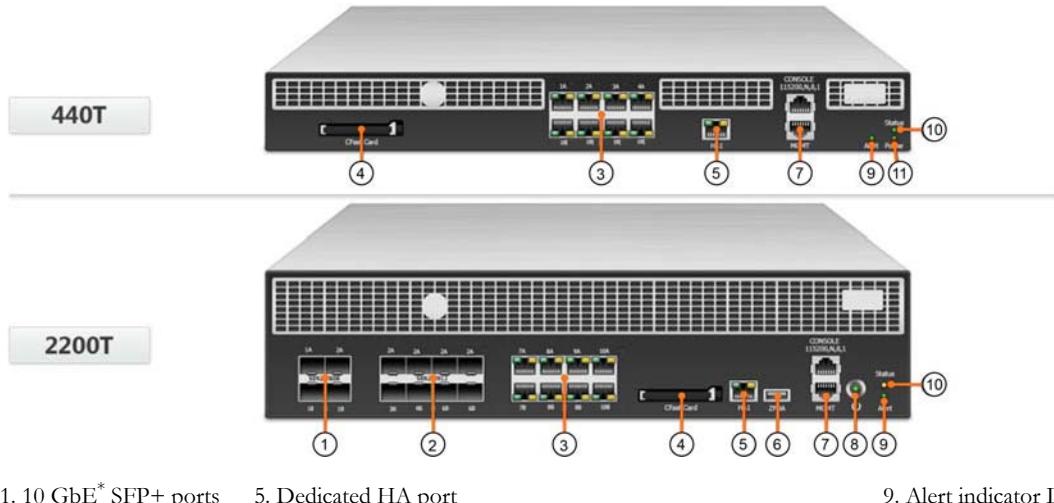
- A 440T (1U) or 2200T (2U) rack-mountable TPS device with redundant power supplies
- 1 AC power cable (440T device) or 2 AC power cables (2200T device)
- Rack-mounting slide rail kit
- Pre-formatted CFast external storage card
- Null modem cable for the console port

## Install and configure your device

To install the device, mount the device in a rack, connect the cables, and then complete the software setup by using the following steps.

Refer to the following diagram of the chassis front panel when you install and configure the device.

**Figure 1. TippingPoint TPS 440T and 2200T security devices – front panel**



1. 10 GbE* SFP+ ports	5. Dedicated HA port	9. Alert indicator LED
2. 1 GbE SFP ports	6. External ZPHA port	10. Status indicator LED
3. 1 GbE copper ports	7. Console port (top) and Management port (bottom)	11. Power indicator LED
4. External CFast card	8. Power button (440T devices have power switch on back panel)	

\*Rate does not include autonegotiation. Dual-rate SFP+ transceivers are not supported.

## Step 1. Determine total rack space

Before you install the chassis, determine the total rack space that is required to install your device.

If you plan to expand your security solution to include additional devices in the future, allow space in the rack for additions.

TippingPoint security devices fit in a 19-inch rack. When you use additional, appropriate accessories, each device also fits in a 23-inch rack.

## Step 2. Attach the device to the rack

Unpack the rail kit that shipped with your security appliance and review the installation documentation.

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**Note:** The TPS 440T and 2200T security devices have the following weight values:

- 440T devices: 15.28 pounds (6.93 kilograms)
- 2200T devices: 26.26 pounds (11.91 kilograms)

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To prevent bodily injury when mounting or servicing this unit in a rack, take special precautions to ensure that the device remains stable. When attaching the device to the rack, follow these guidelines. For other rack-mounting options, refer to the product hardware documentation.

- If the rack comes with stabilizers, install the stabilizers before mounting or servicing the unit in the rack.
- If the rack is partially filled, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- During the initial installation, keep in mind the weight distribution and stability of the rack.

You can optionally order front mounting ears from TippingPoint to install the devices in two-post racks in front-mount or mid-mount positions. For more information, contact your TippingPoint representative.

## Step 3. Connect the power supply

After you have racked your security device, attach the AC power supply connections.

### Connect the power

1. Locate the power inlet on the back of the chassis.
2. Plug the female end of a standard power cord into the power inlet and plug the other end of the power cord into an AC outlet, power strip, or UPS.

The 440T and 2200T security devices require the use of one power cord to turn on the device. For a 2200T security device, use a second power cord for redundancy. For maximum protection, use different power circuit feeds for each power cord.

## Step 4. Insert the CFast card

Install the user disk into the empty slot on the front panel of the device. This pre-formatted, hot-swappable user disk can store system logs, snapshots, and other system data.

1. Locate the external user disk in the accessory kit.
2. Insert the external user disk into the external user disk slot on the front panel.
3. If the device has been set to require authentication for external user disks, complete the mounting process by using the command line interface (CLI). For a list of CLI commands that manage the external user disk, review the documentation for your product.

## Step 5. Attach the cables

Attach the cables so that you can configure the security device from the management port and console port.

### Connect the management port

The management port connection provides Ethernet access to the device. Connect the management port to the network to enable remote management of the device.

1. Locate the management port on the front of the unit, directly above the **MGMT** label (see [Figure 1](#), label 7).
2. Connect one end of an Ethernet cable to the management port on the front panel.
3. Connect the other end of the Ethernet cable to your network.

### Connect the console port

The console port connection provides console access to the device command line interface (CLI).

1. Locate the console port on the front of the unit, directly above the management port.
2. Connect the RJ-45 null modem cable that shipped with your product to the console port on the front of the unit.
3. Connect the other end of the cable (standard-sized USB connector) directly to your computer.

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**Note:** Use the following terminal settings for the console port:

- Speed: **115200 bps**
- Data bits: **8**
- Parity bit: **None**
- Stop Bits: **1**
- Flow Control: **None**

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## Step 6. Turn on the device

After you have reviewed all requirements for operating your product, turn on the device:

- For 440T devices, press the power switch on the back panel of the device.
- For 2200T devices, press the power button on the front panel of the device.

## Step 7. Check LED indicators

When you turn on the device, the system completes a series of component checks and then displays LED indicators to show the status of each component:

- Management port
  - Link LED: Green indicates the port is linked and ready for data.
  - Activity LED: Blinking amber indicates the port is passing data.
- Power
  - Off: Indicates the system is off.

- Green: Indicates the system is on.

— System status

- Flashing green: Indicates the system is booting up, and is not yet ready to inspect traffic.
- Solid green: Indicates the system is running in a healthy state.
- Solid yellow: Indicates the system is running but has a health rating below the acceptable threshold.

— Alert status

- Solid yellow: Indicates the device is in L2FB (including when rebooting)..
- Off: Indicates the device is not in L2FB.

## Step 8. Complete initial setup

From the console terminal, complete the initial configuration by using the setup wizard.

The wizard performs system checks, and then prompts you to complete the initial setup.

1. Specify a security level (None, Basic, or Maximum). The security level you select determines your password complexity requirements.
2. Create an administrative account with the **SuperUser** role. The **SuperUser** role gives the account full access to the device. For more information about user accounts, review the documentation for your product.

The wizard prompts you to log in with your administrative account so you can continue initial setup.

3. From the console terminal, log in with your administrative account.

The wizard prompts you to configure IP address, default gateway, DNS server, and timekeeping options.

## Step 9. Install your license package

Install your license package on the device to provide the following product capabilities:

- Inspection throughput
- Digital Vaccine
- ThreatDV
- SSL inspection (2200T security device only)

Update your license package to assign a product capability that you have purchased, such as an inspection throughput license, to a particular security device. To review and manage the capabilities in your license package, go to the TippingPoint License Manager on the TMC at <https://tmc.tippingpoint.com>.

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**Important:** Verify your product license provides sufficient inspection throughput. By default, a 440T or 2200T security device is unlicensed and provides reduced inspection throughput for testing and evaluation purposes only.

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**Table 1: TippingPoint TPS 440T and 2200T security devices – unlicensed inspection throughput**

Security device	Unlicensed inspection throughput
440T	100 Mbps
2200T	200 Mbps

Install and verify your product license by using:

- The Security Management System (SMS). When managed by the SMS, the SMS automatically downloads and distributes the updated license package to the device.
- The Local Security Manager (LSM). When the device is not managed by the SMS, download your updated license package from the TMC and then install the package by using the LSM.

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**Important:** After you install your license package, if prompted, reboot the device to apply any license updates. For more information, review the documentation for your product.

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## Step 10. Attach network connections

Connect each network cable to a network segment on the device. Each network segment consists of a pair of ports on the device; for example, ports 1A and 1B form one network segment. If traffic enters either of the paired ports, the traffic exits the other port unless the device is configured to drop the traffic.

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**Important:** The 440T and 2200T security devices may require a license update to ensure sufficient inspection throughput when you connect to your production network. For more information, see “[Step 9. Install your license package](#),” on page 6.

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With network connections complete, you can configure network interface types appropriate to the surrounding network by using the ports you connected. See “*Where to go next*,” on page 7.

## Where to go next

After you attach network connections, network traffic passes through the device using the default filter configuration. The default configuration automatically recognizes and blocks traffic that is known to be malicious at all times, under all conditions, in all network environments.

You can perform additional configuration, administrative, and management tasks, by using:

- The LSM or the device command line interface (CLI). The LSM and CLI enable straightforward management of a particular device.

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**Tip:** From the CLI, you can repeat the setup wizard by using the `setup` command. When you use the CLI, configure the terminal emulation package to transmit a Ctrl-H character when the Backspace key is pressed.

- The SMS. The TippingPoint SMS provides a scalable, policy-based operational model, and enables straightforward management of large-scale IPS and TPS deployments.

For more information, review the documentation for your product.

## TMC account registration

The TMC provides online access to additional product documentation, updates, and support.

To register for an account, go to <https://tmc.tippingpoint.com>.

## Product support

Information for you to contact product support is available on the TMC at <https://tmc.tippingpoint.com>.

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