



TippingPoint™

Install your TPS 8200TX and 8400TX security devices

This information provides detailed installation instructions for your Threat Protection System (TPS) 8200TX and 8400TX security devices.

Before you begin

Before you begin, go to the TMC at <https://tmc.tippingpoint.com>, and see 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.

Important: The 8200TX and 8400TX 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 7.

- Make sure the power capacity for your installation meets the documented requirements:
 - 8200TX device: AC Voltage 100 to 240; Current 12 to 6A; Frequency 47 to 63 Hz
 - 8400TX device: AC Voltage 100 to 240; Current 12 to 6A; Frequency 47 to 63 Hz
 - 8200TX and 8400TX devices: DC Voltage -40 to -60; Current 24 to 16A

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.

Overview

Your TPS security device ships with the following components:

- An 8200TX (1U) or 8400TX (2U) rack-mountable TPS device with redundant power supplies
- 2 AC power cables*
- Rack-mounting slide rail kit
- Null modem cable for the console port

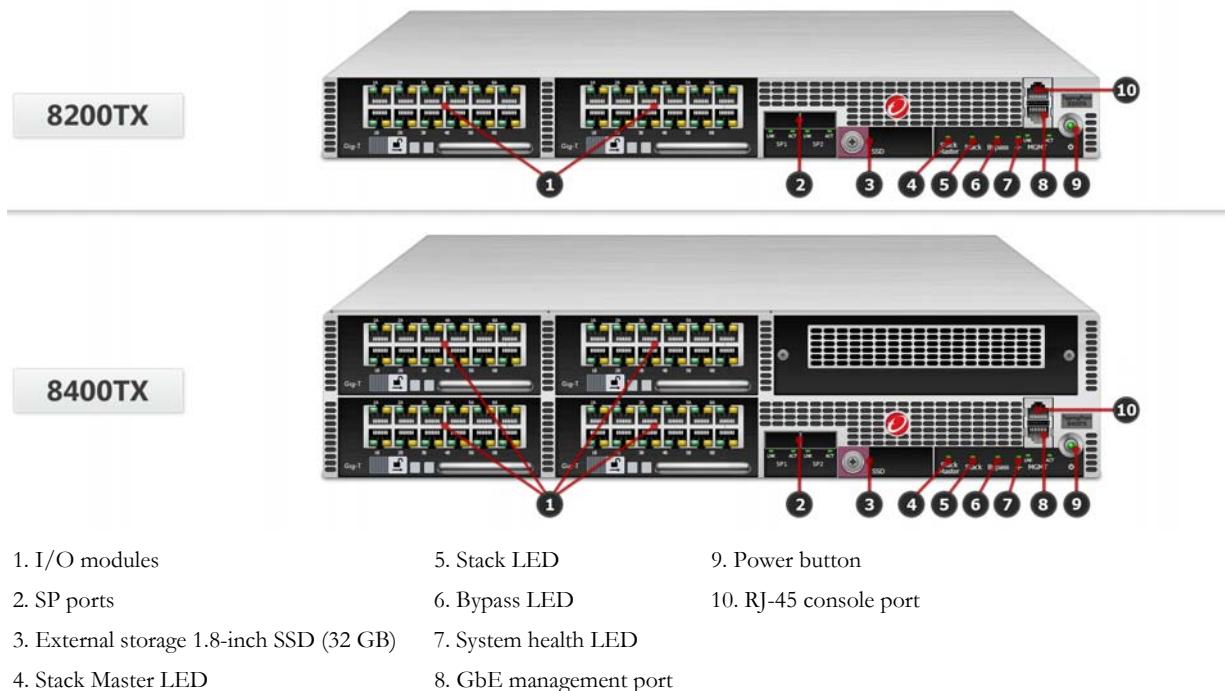
*DC power supplies are available for TX Series devices. Consult your TippingPoint account contact if you require a DC power supply.

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 8200TX and 8400TX security devices – front panel



Step 1. Determine total rack space

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

The required rack space will increase if you plan to install multiple devices. If you plan to expand your security solution to include stacking or 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 on the TMC.

Note: The TPS 8200TX and 8400TX devices have the following weight values:

- 8200TX devices: 32 pounds (14.5 kilograms)
- 8400TX devices: 50 pounds (22.7 kilograms)

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 account contact.

Step 3. Connect the power supply

After you have racked your security device, attach the AC power supply connections. For information about DC compatibility, review the documentation for your product on the TMC or contact your TippingPoint account contact.

Connect the power (redundant power)

1. Locate the power inlets 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 8200TX and 8400TX security devices require the use of one power cord to turn on the device. Use a second power cord for redundancy. For maximum protection, use different power circuit feeds for each power cord.

Warning: When you install DC power, always install the safety ground cable before connecting the power supply. For DC power connection details, refer to the product hardware documentation.

Step 4. Add I/O modules

The 8200TX and 8400TX security devices come with blank modules inserted into all module slots.

Warning: To enable the security device to cool efficiently, do not leave the module slots empty for an extended period of time. Insert a blank module or an I/O module into each slot to ensure proper ventilation.

The 8200TX and 8400TX security devices support the following I/O modules and bypass I/O modules for fiber and copper components.

Warning: The use of other vendor devices could be detrimental to proper operation of the TippingPoint system.

The following **standard** I/O modules are supported for the 8200TX and 8400TX security devices and are hot-swappable:

- TippingPoint 6-Segment Gig-T I/O module
- TippingPoint 6-Segment GbE SFP I/O module
- TippingPoint 4-Segment 10 GbE SFP+ I/O module
- TippingPoint 1-Segment 40 GbE QSFP+ I/O module

The following **bypass** I/O modules are supported for the 8200TX and 8400TX security devices and are hot-swappable:

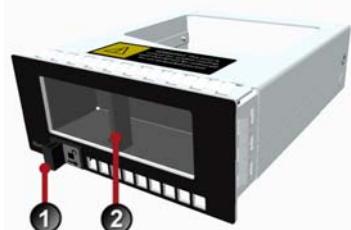
- TippingPoint 4-Segment Gig-T Bypass module
- TippingPoint 2-Segment 1G Fiber SR Bypass module
- TippingPoint 2-Segment 1G Fiber LR Bypass module
- TippingPoint 2-Segment 10G Fiber SR Bypass module
- TippingPoint 2-Segment 10G Fiber LR Bypass module

For more information on these supported I/O modules, refer to the product hardware documentation.

Add I/O modules

To remove the blank module, slide the slide latch (1) to the right and pull on the grab point (2).

Figure 2. TippingPoint TPS 8200TX and 8400TX security devices – blank module



To insert an I/O module, slide the module into the empty module slot. When the module is in the correct position, the slide latch automatically slides into position.

Important: When you insert a bypass I/O module, the bypass I/O module always starts up in bypass mode. A bypass I/O module remains in bypass mode until you remove it from bypass mode through the CLI, LSM, or SMS. Rebooting the TPS does not change the bypass mode of the bypass I/O module. For information about how to disable bypass mode, see your product documentation on the TMC.

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 8).
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.

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**

Step 6. Turn on the device

After you have reviewed all requirements for operating your product, turn on the device by pressing the power button on the front panel.

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:

- Stack Master status
 - Solid green: Indicates that the device is the stack master.
- Stack status
 - Flashing green: Indicates that the device is ready to inspect (RTI) and is waiting for the stack master to allow the device to begin inspecting network traffic.
 - Solid amber: Indicates that the device is not ready to inspect (NRTI).
 - Solid green: Indicates that the device is RTI and is inspecting network traffic.
 - Off: Indicates that stacking is not enabled on the device.
- Bypass status
 - Solid red: Indicates that the device is in Intrinsic High Availability (Intrinsic HA) Layer-2 Fallback (L2FB) mode.
 - Off: Indicates that the device is not in L2FB mode.
- System health status 
 - Flashing green: Indicates that the system is booting up, and is not yet ready to inspect traffic.
 - Solid green: Indicates that the system is healthy.
 - Red: Indicates that the system is experiencing a health alert, such as a fan failure. This state resets to solid green when you view the system log.
- Management port status
 - Link LED: Solid green indicates that the port is linked and ready for data.
 - Activity LED: Flashing amber indicates that the port is passing data.
- Power status
 - Off: Indicates that the system is off.
 - Solid green: Indicates that the system is on.

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, Low, Medium, or High). 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 on the TMC.

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

3. From the console port 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

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>.

Important: Verify your product license provides sufficient inspection throughput. By default, an 8200TX or 8400TX security device is unlicensed and provides reduced inspection throughput for testing and evaluation purposes only.

Table 1: TippingPoint TPS 8200TX and 8400TX security devices – unlicensed inspection throughput

Security device	Unlicensed inspection throughput
8200TX	1 Gbps
8400TX	1 Gbps

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.

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 on the TMC.

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.

Important: The 8200TX and 8400TX 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 7.

When you complete initial setup, you can configure network interface types appropriate to the surrounding network by using the ports you connected. See “*Where to go next*,” on page 8.

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.

On a TX Series device, any bypass I/O modules remain in bypass mode until you remove them from bypass mode through the CLI, LSM, or SMS. Rebooting the TPS does not change the bypass mode of the bypass I/O module. For information about how to disable bypass mode, see your product documentation on the TMC.

Important: To complete your installation, see the *Release Notes* for your product on the TMC at <https://tmc.tippingpoint.com>. The *Release Notes* provide the latest post-installation information for your product.

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.

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.

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>.

Legal and notice information

© Copyright 2017 Trend Micro Incorporated. All rights reserved.

Trend Micro Incorporated makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Trend Micro Incorporated shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

This document contains proprietary information, which is protected by copyright. No part of this document may be photocopied, reproduced, or translated into another language without the prior written consent of Trend Micro Incorporated. The information is provided "as is" without warranty of any kind and is subject to change without notice. The only warranties for Trend Micro Incorporated products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Trend Micro Incorporated shall not be liable for technical or editorial errors or omissions contained herein.

TippingPoint, the TippingPoint logo, and Digital Vaccine are trademarks or registered trademarks of Trend Micro Incorporated. All other company and/or product names may be trademarks or registered trademarks of their respective owners. This document contains confidential information, trade secrets or both, which are the property of Trend Micro. No part of this documentation may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from Trend Micro or one of its subsidiaries.

All other company and product names may be trademarks of their respective holders.

Install your TPS 8200TX and 8400TX security devices

Edition: August 2017, Rev A1