

PA-220 Next-Gen Firewall Hardware Reference

Contact Information

Corporate Headquarters:

Palo Alto Networks

4401 Great America Parkway

Santa Clara, CA 95054

www.paloaltonetworks.com/company/contact-support

About this Guide

This guide describes the PA-220 next-generation firewall hardware, provides instructions on installing the hardware, describes how to perform maintenance procedures, and provides product specifications. This guide is intended for system administrators responsible for installing and maintaining a PA-220 firewall. All PA-220 firewalls run PAN-OS®, a purpose-built operating system with extensive security and networking functionality. For additional information, refer to the following resources:

- For information on the additional capabilities and for instructions on configuring the features on the firewall, refer to <https://www.paloaltonetworks.com/documentation>.
- For capacity and performance information for all Palo Alto Networks firewalls, refer to <https://www.paloaltonetworks.com/products/product-selection.html>.
- For feature, capacity, and performance information, refer to <https://www.paloaltonetworks.com/resources/datasheets.html>.
- For access to the knowledge base, discussion forums, and videos, refer to <https://live.paloaltonetworks.com>.
- For information on support programs refer to <https://www.paloaltonetworks.com/services/support> and for information on how to manage your account or devices, or to open a support case, refer to <https://www.paloaltonetworks.com/company/contact-support>.
- For the most current PAN-OS and Panorama release notes, refer to the [Technical Documentation Portal](#) and select the release version that is installed on your firewall or Panorama server.
- For information on the supported OS releases by model, refer to <https://www.paloaltonetworks.com/documentation/global/compatibility-matrix>.
- For details on the Palo Alto Networks Return Material Authorization (RMA) process and policy, refer to https://www.paloaltonetworks.com/content/dam/pan/en_US/assets/pdf/datasheets/support/rma-process-policy.pdf.

To provide feedback on the documentation, please write to us at: documentation@paloaltonetworks.com.

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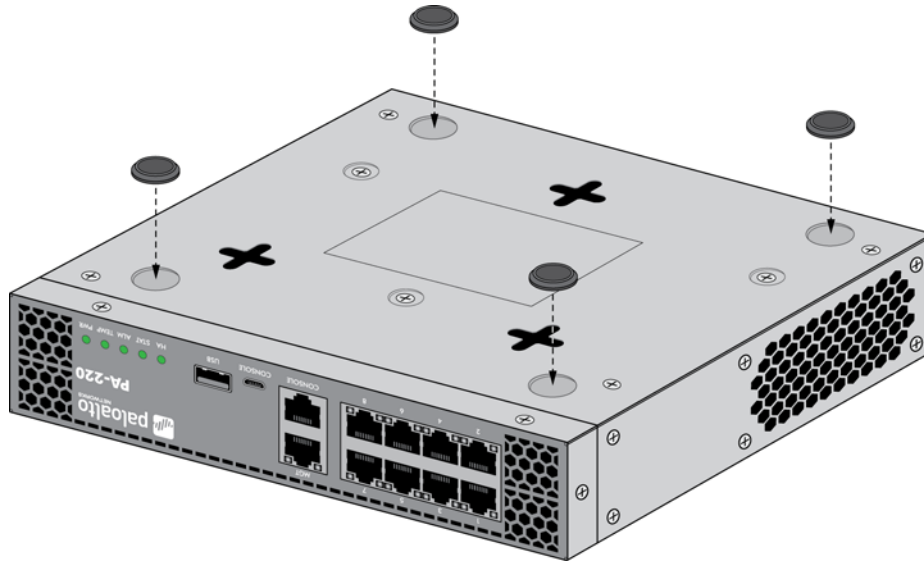
Install the PA-220 Firewall

The PA-220 next-generation firewall ships with the hardware required to install the firewall on a flat surface or on a wall. You can also order a rack mount kit to [Install the PA-220 Firewall in a 19" Equipment Rack](#).

- ▲ [Install the PA-220 Firewall on a Flat Surface](#)
- ▲ [Install the PA-220 Firewall on a Wall](#)
- ▲ [Install the PA-220 Firewall in a 19" Equipment Rack](#)

Install the PA-220 Firewall on a Flat Surface

Attach the rubber pads to the recessed circles on the bottom of the firewall and then place the firewall on a flat stable surface.



Install the PA-220 Firewall on a Wall

Install a PA-220 firewall on a drywall or plywood wall using the wall-mount kit as describe in the following procedure.

Install the PA-220 Firewall on a Wall

Step 1 If the four rubber pads are installed on the bottom of the firewall, remove them.

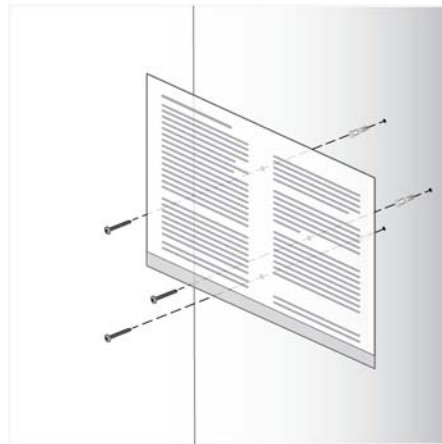
Step 2 Mark three locations on the wall that line up with the wall mount holes on the bottom of the firewall.



To ensure the wall mount screws line up with the firewall mount holes, use the PA-220 Quick Start Guide that ships with the firewall as a template. If you do not have a copy of the Quick Start, [download](#) and print it. When printing, select landscape and actual size in the print options to ensure the screw hole markers line up correctly.



Ensure there are no building services (water, gas, or wiring) behind the wall where you intend to install the firewall.

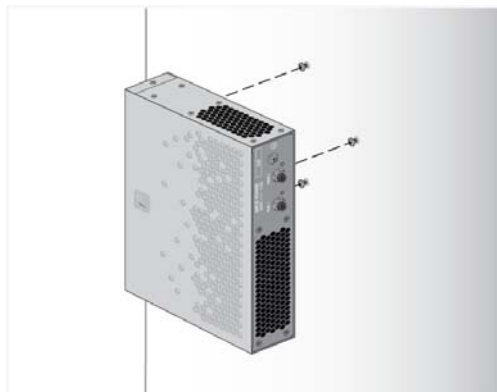


Step 3 Use a #1 Phillips-head screwdriver to install the appropriate screws into each of the three marked locations:

- **Drywall**—Press a drywall anchor slightly into the center of a template mark. Then use your screwdriver to apply pressure while turning the anchor clockwise until the surface of the anchor is flush with the wall. After the drywall anchor is secure, install a 1.25" anchor screw into the anchor until the bottom of the screw head protrudes 1/4" (.6cm) from the wall. Repeat this step for the other two screw locations unless either is located over wood, in which case, use a .75" wood screw instead of a drywall anchor and screw.
- **Plywood wall**—Use your screwdriver to insert a .75" wood screw into the center of each template mark that is located over wood until the bottom of the screw heads protrude 1/4" (.6cm) from the wall.

Install the PA-220 Firewall on a Wall (Continued)

Step 4 Align the three holes on the bottom of the firewall with the three screws on the wall and hang the firewall on the screws. Make sure the firewall is securely connected to each of the three screws before you let go.

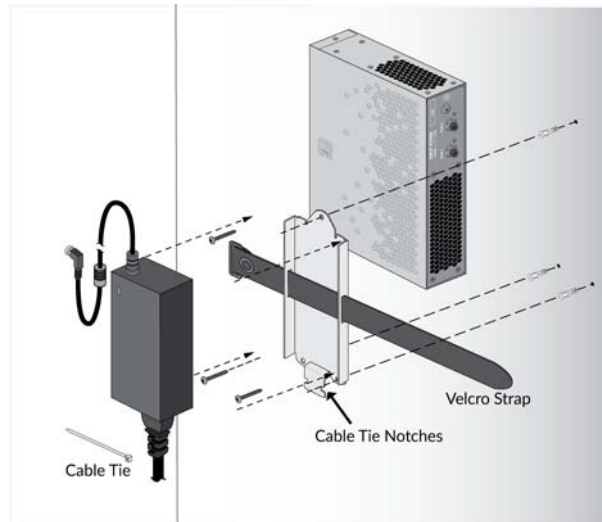


Install the PA-220 Firewall on a Wall (Continued)

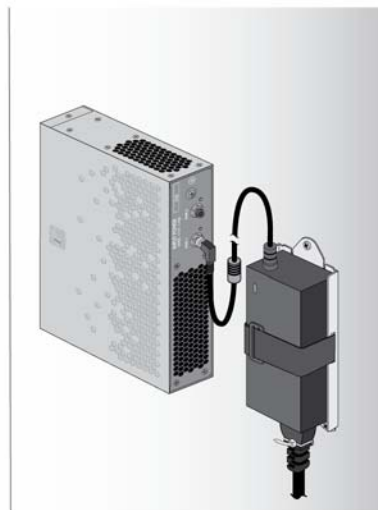
Step 5 Install the power adapter in the power adapter wall-mount bracket using the Velcro strap and cable tie. Make sure to align the cable tie with the notches in the bracket to prevent the power cord from falling out. After you secure the power adapter to the bracket, mount the bracket next to the firewall using wood or drywall screws as appropriate. You can install an optional second power adapter next to the first power adapter.



Connect the second power adapter through a different circuit breaker to provide power redundancy and allow for electrical circuit maintenance.



The following image shows a completed installation for a PA-220 firewall with only a single power adapter.



Install the PA-220 Firewall in a 19" Equipment Rack

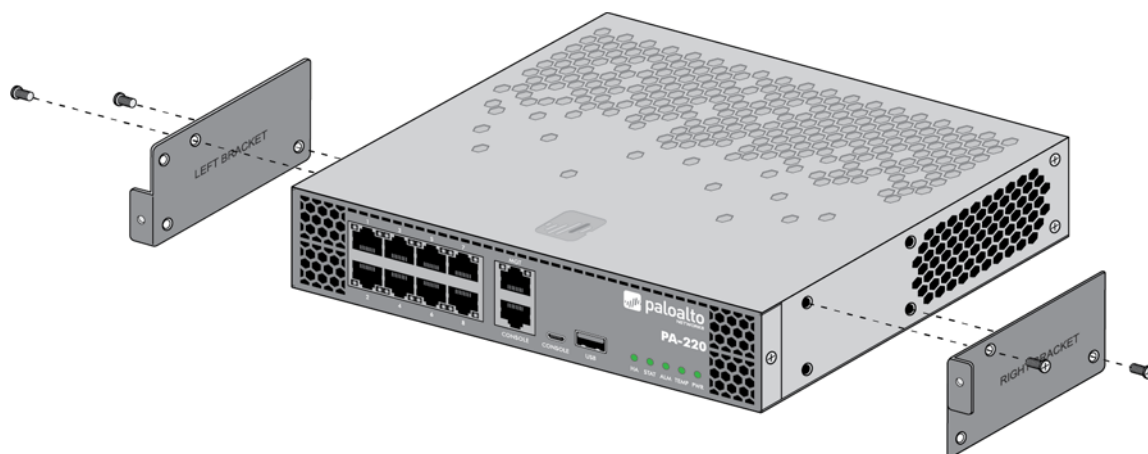
The PA-220 firewall one-unit (1U) rack tray kit (PAN-PA-220-RACKTRAY) enables you to install one or two PA-220 firewalls in a 19" equipment rack. The installation hardware (screws and brackets) for the left side of the tray are contained in bags and the installation hardware for the right side of the tray are pre-installed. This enables you to store the right side hardware in the tray (for future use) if you are installing only one firewall.



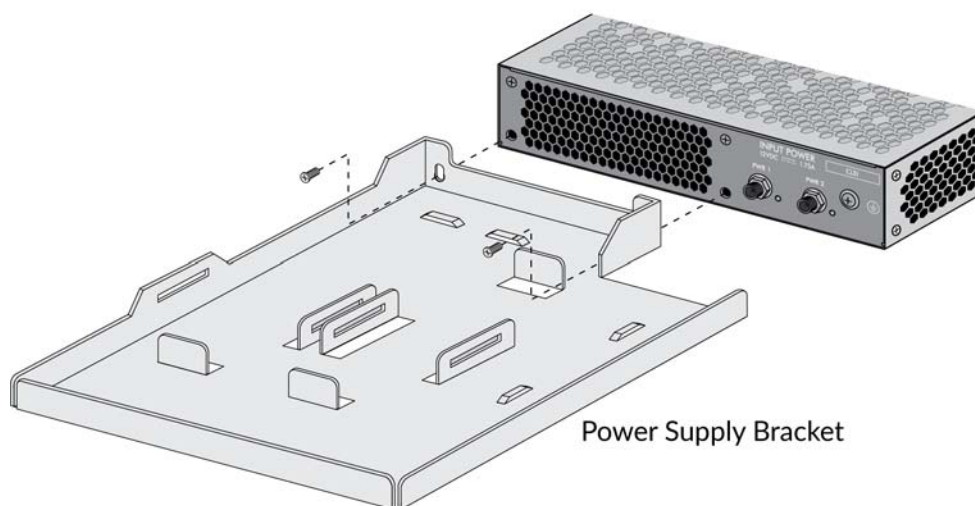
To ease installation, first install the firewall(s) in the rack tray and then install the assembled rack tray into the equipment rack.

Install the PA-220 Firewall in a 19" Equipment Rack

Step 1 Attach one rack tray bracket to each side of the firewall using two 4-40 x 1/4" screws for each bracket. The brackets are labeled left and right as shown in the illustration.

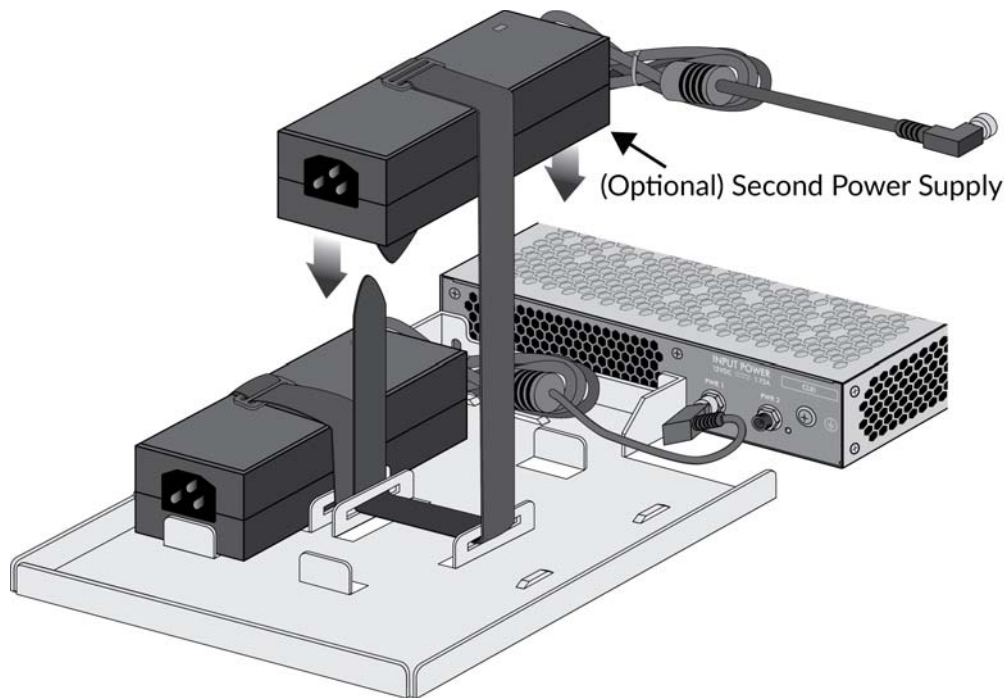


Step 2 Attach the power adapter bracket to the back of the firewall using two 4-40 x 1/4" screws.



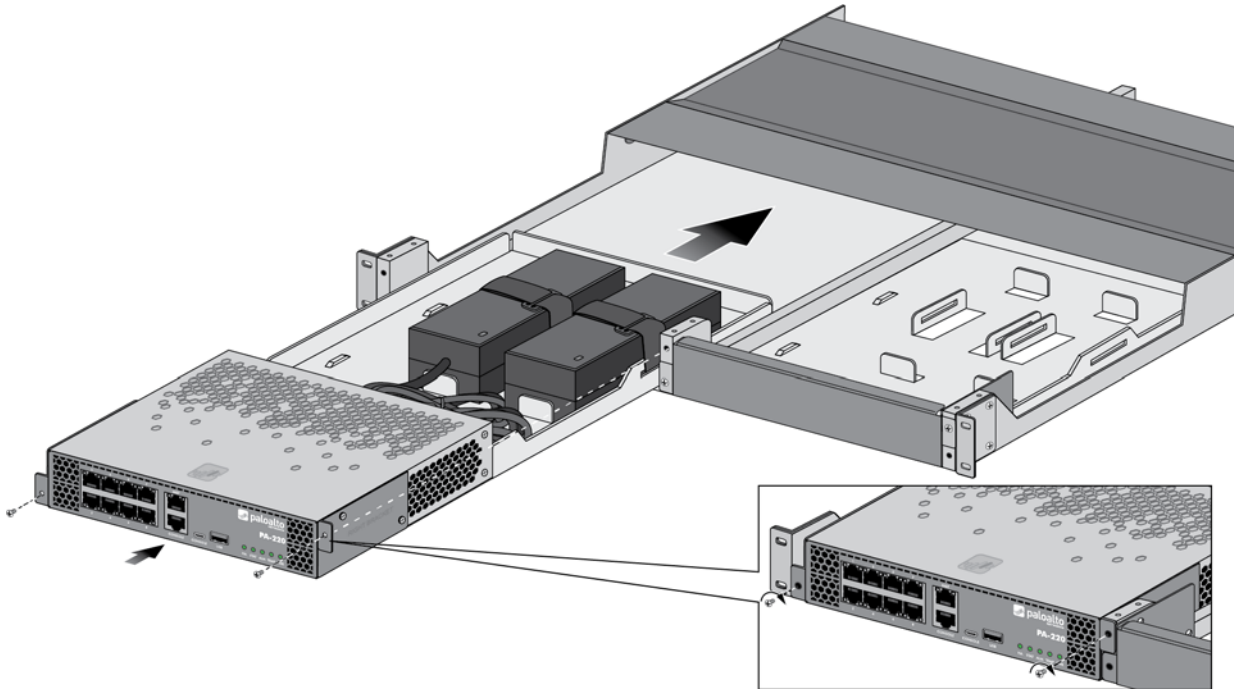
Install the PA-220 Firewall in a 19" Equipment Rack (Continued)

- Step 3** Install the PA-220 power adapter in the power adapter bracket and secure it with the Velcro strap. **(Optional)** Install a second power adapter for redundancy.



Install the PA-220 Firewall in a 19" Equipment Rack (Continued)

- Step 4** Slide the firewall (with power adapter bracket) into the rack tray and attach the rack tray brackets to the rack tray using one 4-40 x 1/4" screw for each bracket.



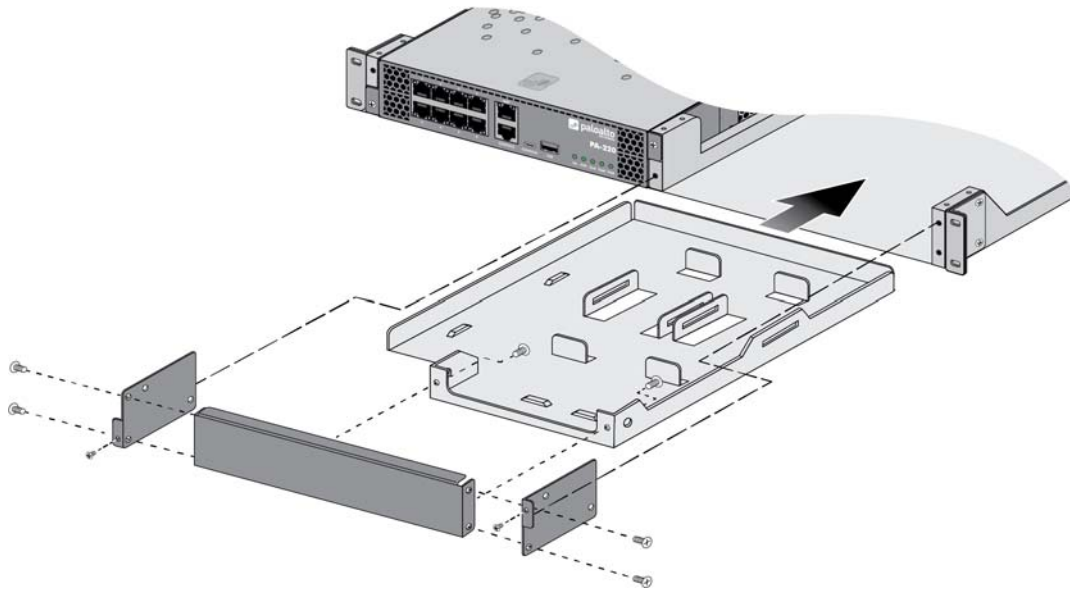
Install the PA-220 Firewall in a 19" Equipment Rack (Continued)

Step 5 (Optional) Install a second PA-220 firewall into the right side of the rack tray:



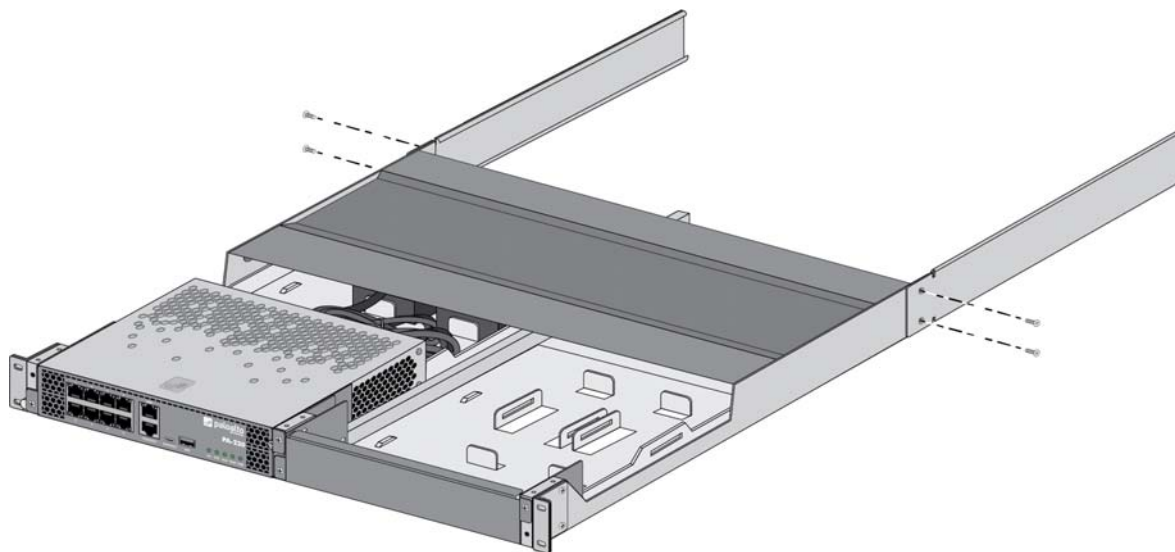
First remove the pre-installed rack tray installation hardware and set aside this hardware for use when you install the second firewall.

1. Remove one 4-40 x 1/4" screw (located on each side of the front cover) from each rack tray bracket to detach the rack tray installation hardware from the rack tray.
2. Slide the empty rack tray installation hardware assembly out of the equipment rack tray.
3. Remove the two screws that secure the front cover to the power adapter bracket.
4. Remove the two screws from each firewall rack tray bracket and remove the brackets from the front cover. Store the front cover for future use.
5. Install the rack tray hardware for the second firewall ([Step 1](#) through [Step 4](#)) and then install it in the right side of the rack tray.

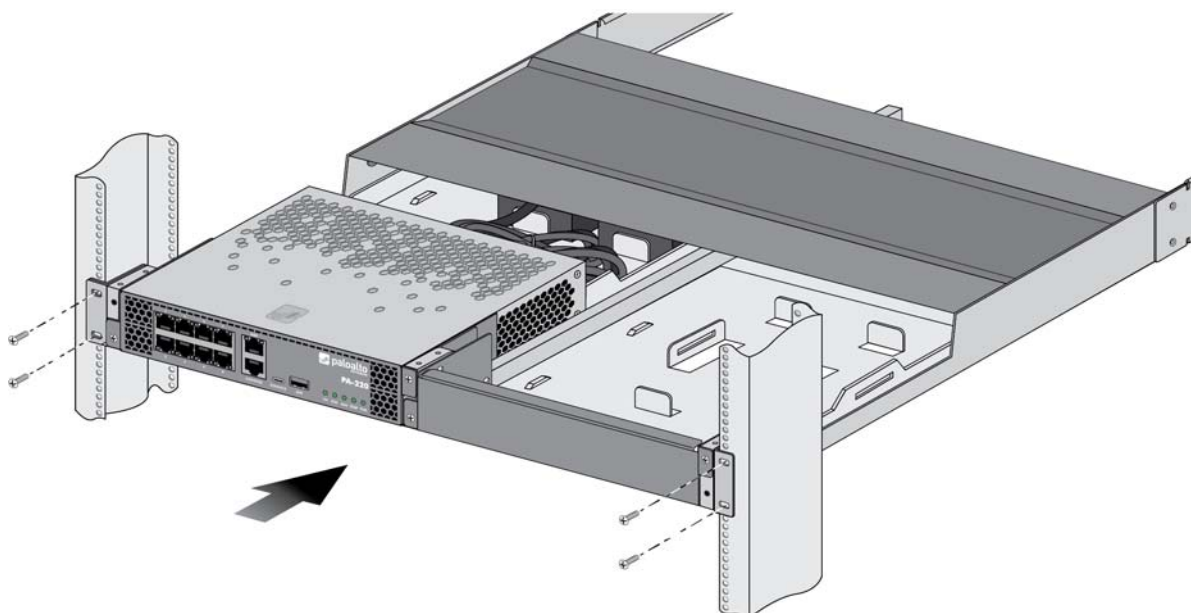


Install the PA-220 Firewall in a 19" Equipment Rack (Continued)

Step 6 (Four-post rack installation only) Install the optional four-post rack kit (PAN-PA-1RU-RACK4) to provide additional support to the back of the rack tray. First attach one rack-mount rail to each side of the firewall using two #6-32 x 5/16" screws for each rail and torque to 9 in-lbs (you will complete the installation after you install the rack tray in the rack as described in the next step).



Step 7 With the help of another person, hold the assembled PA-220 firewall rack tray in place in the equipment rack and secure the rack tray brackets to the front rack posts using a #2 Phillips-head screwdriver. Use the appropriate screws (#10-32 x 3/4" or #12-24 x 3/4") for your rack and torque to 25 in-lbs. Use cage nuts to secure the screws if the rack has square holes.



Install the PA-220 Firewall in a 19" Equipment Rack (Continued)

Step 8 (Four-post rack installation only) If you installed the optional four-post rack kit, complete the installation you started in [Step 6](#). Slide one back rack-mount bracket into each of the two previously installed rack-mount rails and secure the brackets to the back-rack posts using the appropriate screws for your rack (#10-32 x 3/4" or #12-24 x 1/2") and torque to 25 in-lbs. Use cage nuts to secure the screws if the rack has square holes.

