QUANTUM

16000, 26000, AND 28000 APPLIANCES TELESCOPIC RAILS

CHECK POINT™

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Important Information

Latest Software

We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.

Certifications

For third party independent certification of Check Point products, see the Check Point Certifications page.

Latest Version of this Document in English

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Feedback

Check Point is engaged in a continuous effort to improve its documentation.

Please help us by sending your comments.

Revision History

Date	Description
31 May 2022	Improved formatting and layout
23 February 2022	Rebranding - New Check Point logo
27 July 2020	Updated for 28600HS appliances
30 April 2020	Updated for 16200,16600HS (rebranded from 16000THS), and 28000 appliances
9 March 2020	First release of this document

Table of Contents

16000, 26000, and 28000 Security Appliances Installing the Telescopic Rails

You can install these security appliances in a rack with the telescopic rails hardware:

Security Appliance	In This Document
16600 Hyperscale Security Appliances (1U)	16600HS
28600 Hyperscale Security Appliances (1U)	28600HS
16000 Base/Plus/Turbo Security Appliances (2U)	16000
16200 Base/Plus Security Appliances (2U)	16200
26000 Base/Plus/Turbo Security Appliances (3U)	26000
28000 Base/Plus Security Appliances (3U)	28000

General Requirements for Racks

Check Point appliances are designed for a standard 19-inch (48.26 cm) rack (see specification EIA-310-D). The telescopic rails are designed for racks with these specifications:

Minimum Depth	Maximum Depth	SKU
22 inches (55.9 cm)	32 inches (81.3 cm)	CPAC-RAIL-L
24 inches (61 cm)	36 inches (91.4 cm)	CPAC-RAIL-EXT-L

Front and rear rack doors must have equally distributed holes on at least 65% of the surface area to give sufficient airflow. Make sure that the racks have sufficient clearance to service the Check Point appliances that are mounted on telescopic rails.

The telescopic rails can be used with racks that have round holes or square holes.

Rack Side	Clearance Requirement
Front	36 in (91.4 cm) plus additional clearance, if necessary, for the mechanical lift used to move the appliance and rails equipment.
Rear	16 in (40.6 cm) from the rear of the rack or appliance without the rear cabinet door. 22 in (55.9 cm) from the rear of the rack or appliance with the rear cabinet door.

These are the physical specifications of the Check Point appliances.

Security Appliance	Width	Depth	Height
16600HS	442 mm	610 mm	44 mm (1U)
28600HS	442 mm	610 mm	44 mm (1U)
16000	442 mm	610 mm	88 mm (2U)
16200	442 mm	610 mm	88 mm (2U)
26000	442 mm	610 mm	132 mm (3U)
28000	442 mm	610 mm	132 mm (3U)

Telescopic Rails Hardware

ℹ️ Important - We recommend that at least two people install the appliance in a rack to prevent injury, or damage to the appliance.
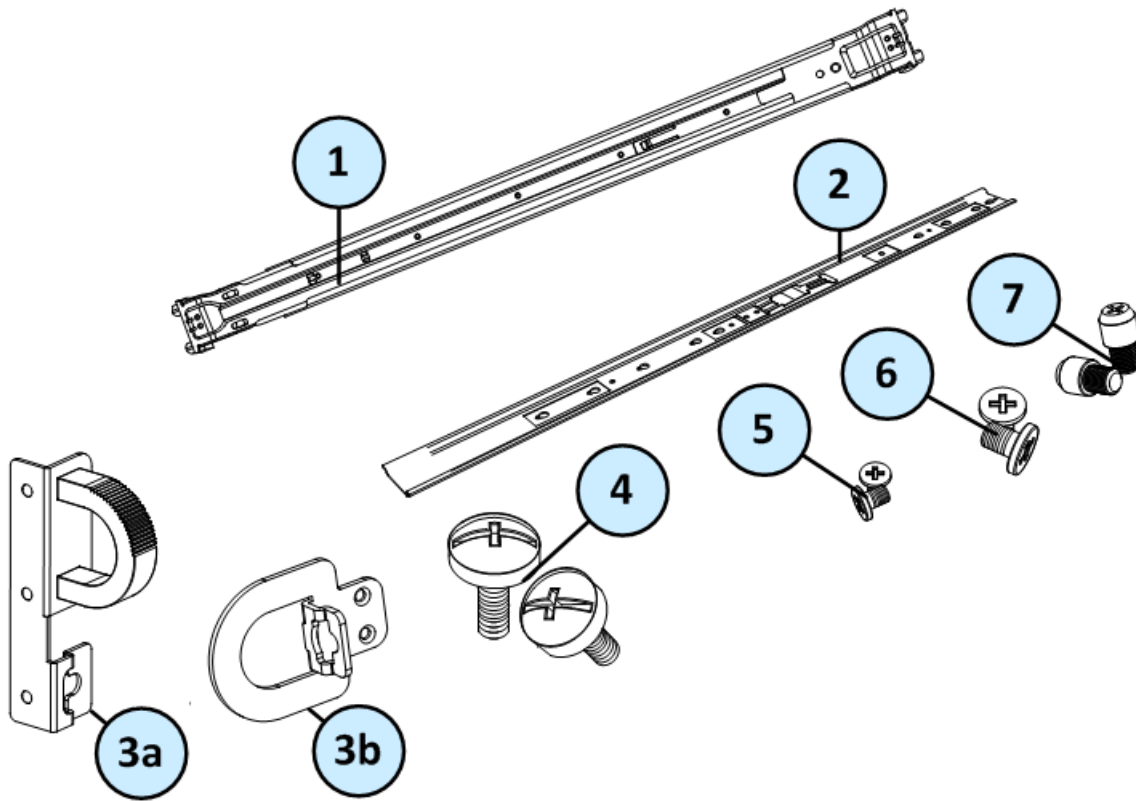
Rack Mounting Tools

We recommend that you use a Phillips PH2 screwdriver with a magnetic head to hold and retrieve screws.

Item	Hardware Description	Qty	Use
1	Outer rack rail section of the telescopic rail unit	2	Moves the appliance into position in the rack
2	Inner appliance rail section of the telescopic rail unit	2	Attaches to the sides of the appliance
3a	Ear mount bracket for 16000, 16200, 26000, and 28000	2	Attaches the appliance to the rack
3b	Ear mount bracket for 16600HS and 28600HS	2	Attaches the appliance to the rack

Item	Hardware Description	Qty	Use
4	Rack mounting screws	4	Attaches the ear mounts to the rack, which prevents movement of the appliance
5	Appliance rail screws	12	Attaches the appliance rails to the appliance
6	Ear mount bracket screws	4 or 6	Attaches the ear mounts to the appliance 4 ear mount screws for 16600HS and 28600HS 6 ear mount screws for 16000, 16200, 26000, and 28000
7	Round hole pins	8	Attaches to the outer rack rails Note - Needed for round hole racks only

Rack Mounting Tools

We recommend that you use a Phillips PH2 screwdriver with a magnetic head to hold and retrieve screws.

Installation Overview

Telescopic rails installation consists of these procedures:

- Attaching the inner rails to the appliance
- Attaching the ear mounts to the appliance
- Attaching the outer rack rails to the rack
- Installing the appliance in the rack

Attaching the Inner Appliance Rails

The outer rack rail section and the inner appliance rail section come as one unit when you open the box.

Before you can attach each appliance rail to the side of the appliance, you must remove the inner appliance rails from the outer rack rails.

To remove the inner appliance rail from the telescopic rail unit:

1. Extend the inner appliance rail from the outer rail until the rails locks in place.

2. Press the inner rail release latch, as shown, and pull the inner appliance rail straight out.
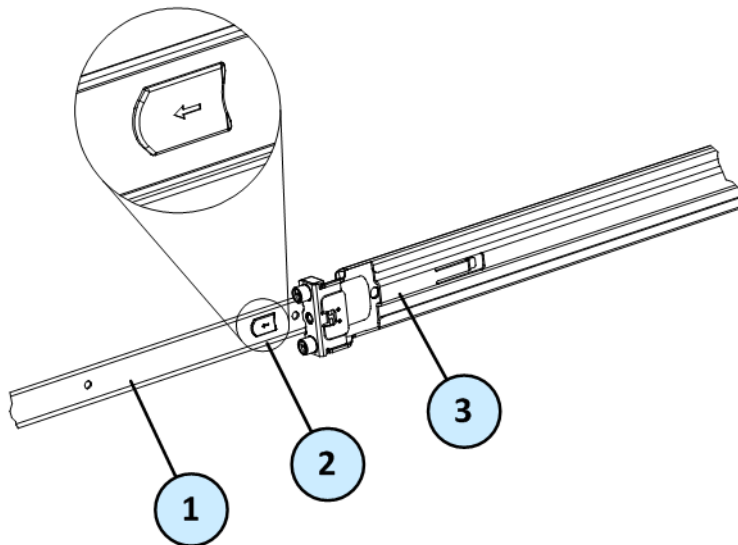
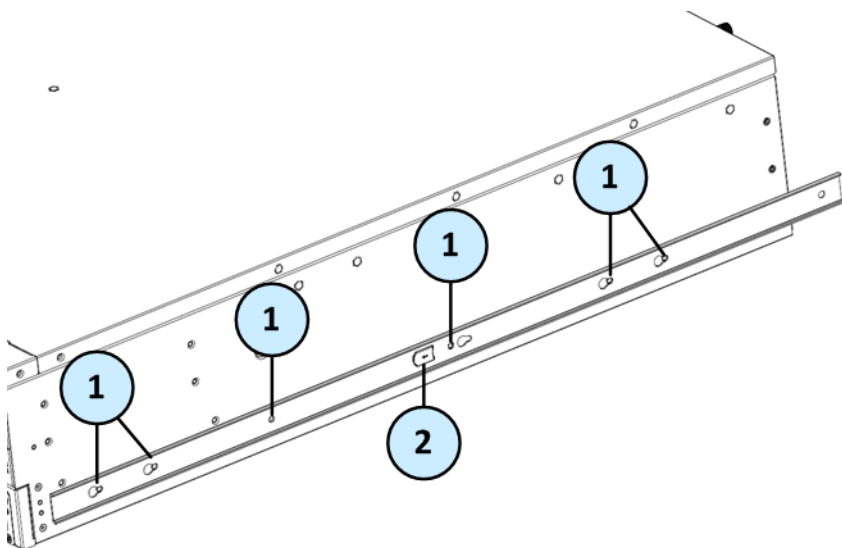| Item	Description
1	Inner rack rail
2	Release latch
3	Outer appliance rail

3. Repeat steps 1 and 2 for the other telescopic rack rail unit.

To install the inner appliance rails to the appliance:

1. Place the appliance rail on the side of the appliance and make sure:

    -   The release latch is facing away from the appliance

    -   The arrow on the release latch points to the front of the appliance

    -   The appliance rail is longer than the appliance

2. Install the appliance rails to the side of the appliance with the six provided screws. Refer to the below appliance rail image.

    Note - Do not over-tighten the screws. Check Point recommends that you leave the rail mounting screws loose until the server is completely installed. This eases installation by preventing binding of the server in the rack.

3. Do steps 1 and 2 again to install the appliance rail on the other side of the appliance.
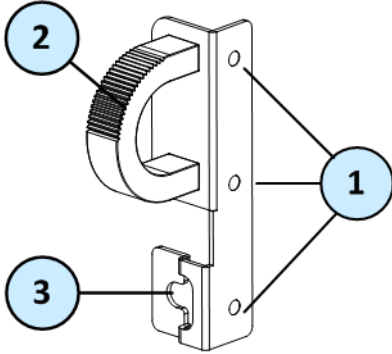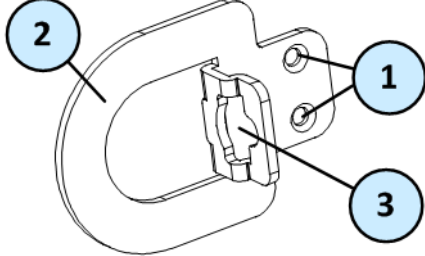

Item	Description
1	Appliance rail screws
2	Release latch (press this latch to remove the appliance from the rack)

Attaching the Ear Mounts

Attach the ear mounts to the left and right side of the front of the appliance to allow:

- Easy pulling in and pulling out of the appliance while it is in the rack using the extraction handles

- Locking the appliance into the rack using the rack mounting screws

16000, 16200, 26000, and 28000 Ear Mount Bracket	16600HS and 28600HS Ear Mount Bracket

| Item	Hardware Description	Use
1	Holes for ear bracket screws	Attaches ear mount to the appliance
2	Extraction handle	Pulls appliance away from the rack
3	Rack post mounting hole for the rack mounting screw	When the screw is fastened, the appliance cannot be pulled out of the rack

To attach the ear mounts to the appliance:

1. Place the ear mount on the side of the appliance near the front panel.

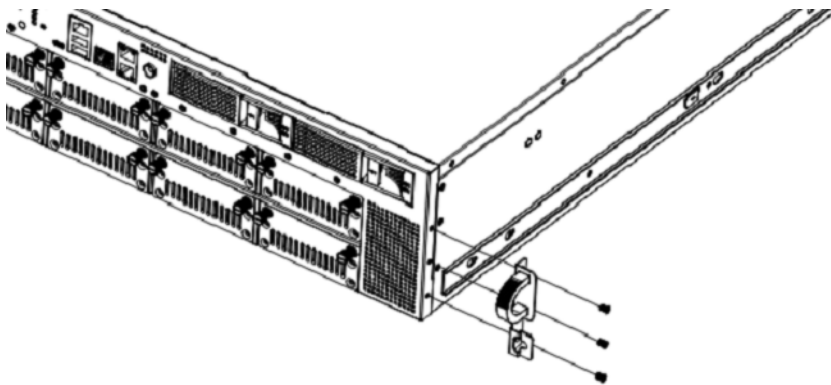2. Attach the ear mount to the appliance using the ear bracket screws.

- 16600HS and 28600HS: Use two screws
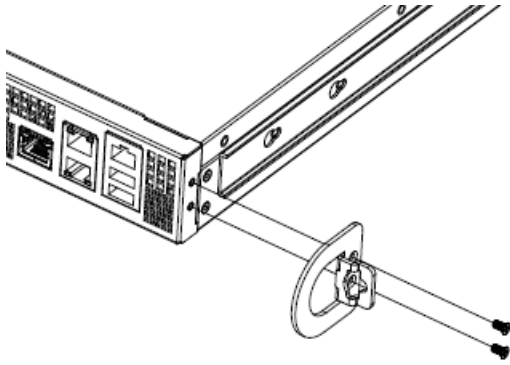
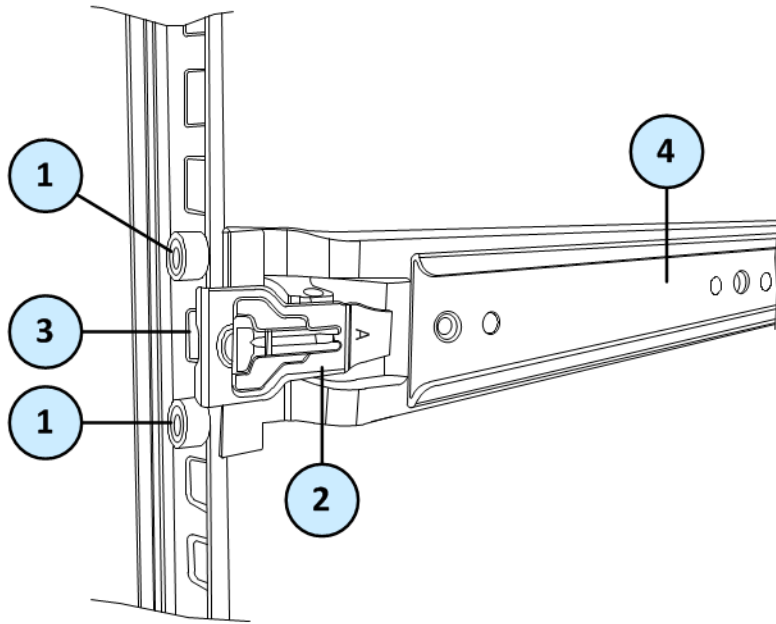- 16000 and 16200: Use three screws
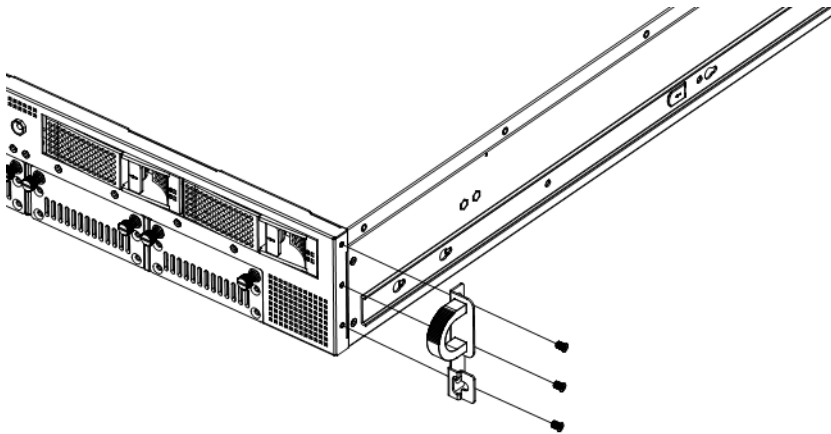
- 26000 and 28000: Use three screws

3. Do steps 1 - 2 again for the other side of the appliance.

Attaching the Outer Rack Rails

Attach the outer rack rails to the rack. Make sure that you have the two rack rails ready.

Item	Description
1	Rack rail screws (attached to the end of the rack rail)
2	Securing clip
3	Screw hole for ear mount screw
4	Rack rail

To attach the outer rails to the rack:

1. If your rack has round holes, remove the screws from the end of the rack rail and replace them with the round hole pins.

2. Align the front end of the outer rail with the hole number.

   - The front securing clip is marked with the letter A.

   - Make sure that the securing clip faces the inner part of the rack.

3. Press the securing clip and connect the outer rail to the rack.

- For square-hole racks: Insert the screws into the rack holes.

- For round-hole racks: Reattach the screws that you removed to the rack. Tighten the screws.

4. Do steps 1 - 3 again to attach the rear end of the outer rail to the rack.

   The rear securing clip is marked with the letter B.

5. Use an ear mount screw (with washer) to secure the rear end of the outer rail to the rack.

6. Do steps 1 - 5 again for the other outer rail.

Installing the Appliance in the Rack

Install the appliance in the telescopic rails in the rack.

Important - We recommend that at least two people install the appliance in a rack to prevent injury, or damage to the appliance.

Important - Do not attempt to lift, drag, or otherwise move the appliance using the handles on the power supply units.

To install the appliance in the rack:

1. Align the appliance rails to be level with the rack rails.

2. Move the appliance into the rack as far as it can go.

3. Slide the appliance in and out of the rack several times to allow the rails to position properly.
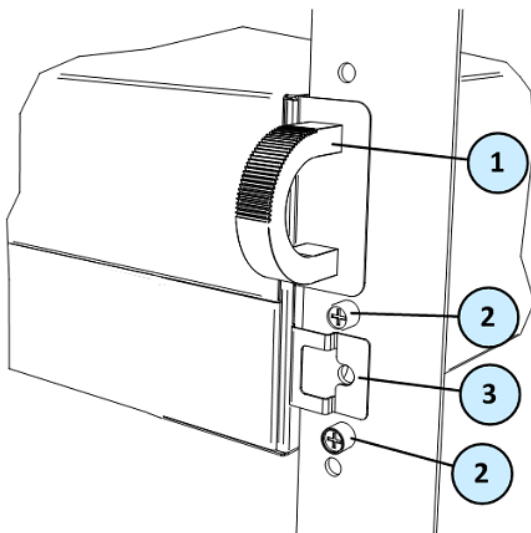
   Tighten all of the rail mounting screws.

4. For each ear mount, use a rack mount screw to secure it to the rack and make sure that the appliance cannot move. This disables the telescopic rails.

   Use the rack post mounting hole that is between the rack rail screws (see item 3 in the next figures).

16600HS and 28600HS
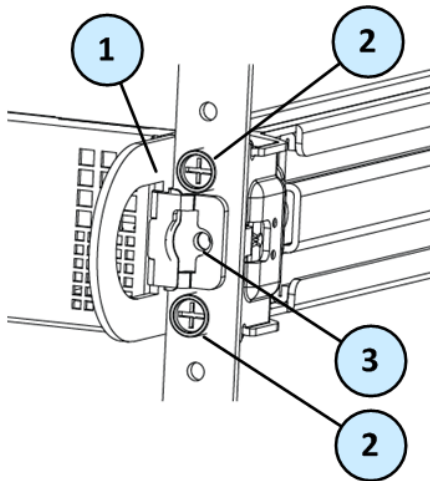
16000, 16200, 26000, and 28000

Item	Description
1	Extraction handle
2	Rack rail screws
3	Rack post mounting hole for rack mount screw

Removing the Appliance

Important - Use at least two people to remove the appliance from the rack to prevent injury or damage.

Important - Do not attempt to lift, drag, or otherwise move the appliance using the handles on the power supply units.

To remove the appliance from the rack:

1. Remove the rack mounting screws from the rack post mounting holes that attach the ear mounts to the rack.

2. Pull the appliance away from the rack as far as possible.

   The release strip on the telescopic rails stops the appliance from sliding too far.

3. On the appliance rails:

   - Press and hold the release strips to unlock the telescopic rails.

   - Pull out the appliance from the rack.
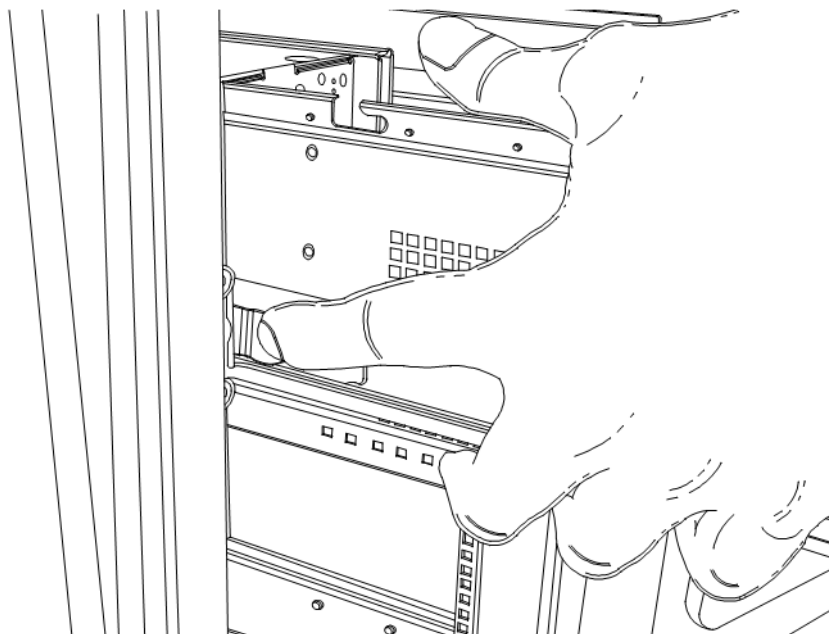
Appliance Air Vents

Make sure that the appliance air vents have sufficient airflow from front to rear when the appliance is mounted in a rack.

> **Important** - If the appliance vents are blocked, the appliance can become too hot and it can be damaged.

The appliance and rack rails have been tested in extreme conditions and do not block air flow to the appliance. These appliances are specifically designed to install with these rails. The 16000 Security Appliance is shown below. The air flow is the same in the other appliances.