Installing the IP54 Kit

This chapter contains the following sections:

- Overview of the IP54 Kit, on page 1
- Installing the IP54 Kit, on page 3

Overview of the IP54 Kit

The IR1800 has a kit, which when installed, provides dust and water protection and discourages tampering.

The PID is IR1800-IP54-KIT.

Before you begin, make sure that you have completed all of the standard installation steps described in the earlier chapters of this guide.

Caution The IP54 kit installed with the router is not intended to meet the Hazardous Locations IP54 requirement according to IEC 60079-7:2018, clause 23.

Caution All the cabling that extends from the router and gets terminated elsewhere, that is, Power, Ethernet, Antenna, and so on, must have a minimum ingress protection rating of IP54 according to EN60529 when used in conjunction with the IP54 kit. It is the responsibility of the customer to ensure that all cabling and terminations outside of the router meet the required ingress protection requirement. In addition, the router is *not* designed for and should not be placed outdoors. The intent of the IP54 kit is to provide supplementary protection to the router against dust and occasional splashing water. Cisco cannot guarantee prolonged reliable operation of the router if these guidelines are violated.

Caution Before beginning the installation of the IP54 kit, consider carefully whether the installation site is strong enough to support the combined weight of the IP54 enclosure and the router that it encloses.

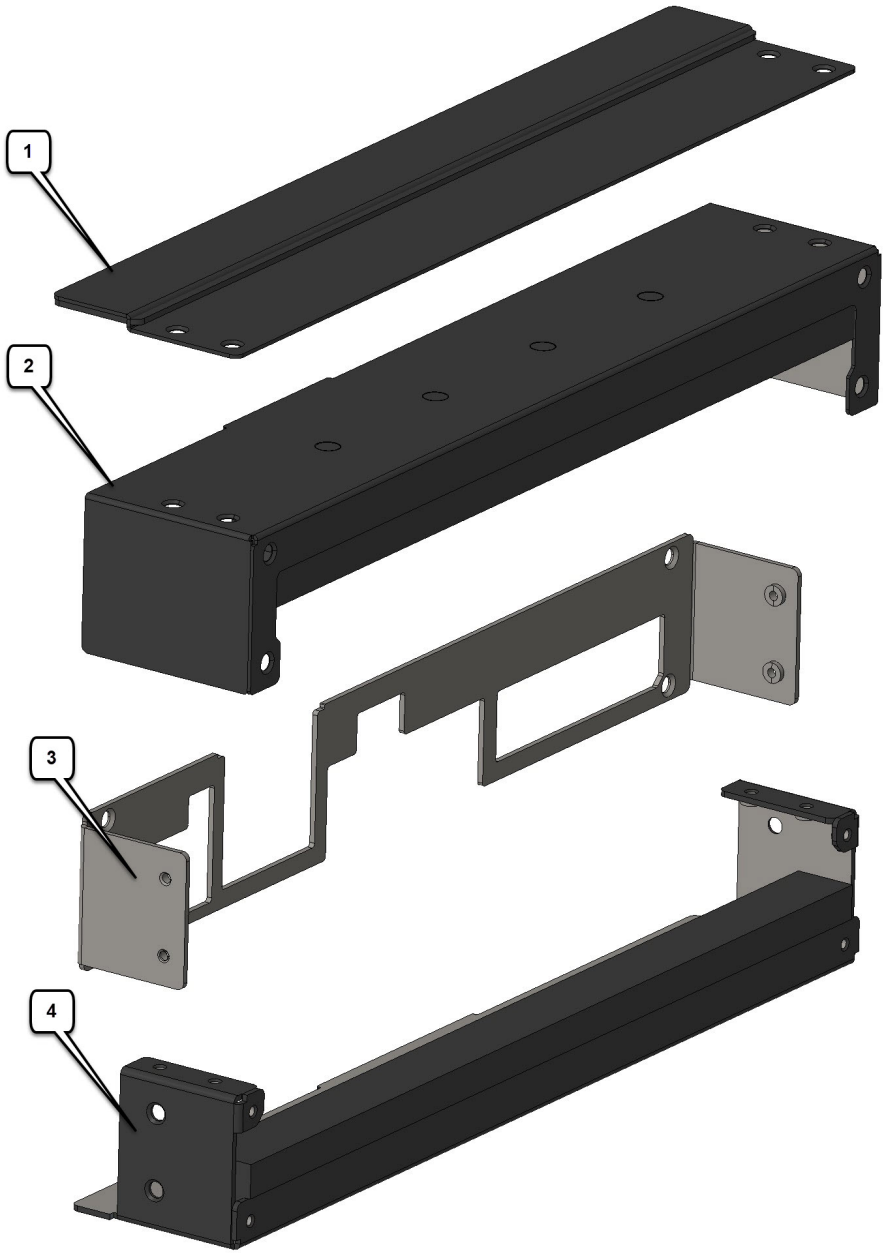
The IP54 kit contains:

- Front Cover Components

- Back Cover
- Screws to build the kit and attach it to IR1800

The front cover is shipped disassembled because it must be assembled onto the IR1800. The front cover comprises four parts.

Figure 1: Front Cover Parts



1	Top Cover Plate
2	Top Cover
3	Mounting Plate
4	Bottom Cover

Figure 2: Back Cover Parts

The IP54 back cover ships as one piece with eight screws.

Installing the IP54 Kit

This section provides an overview of the IP54 kit installation.

Note Ensure that you are using proper static discharge techniques such as a wrist strap and static mat.

Caution Ensure the device is powered down before performing any removal or installation of a module.

Installing the Front Cover

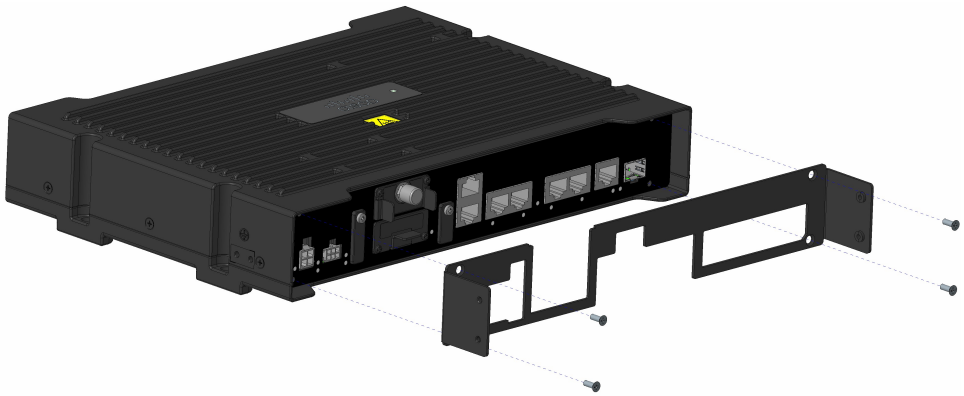
The front cover of the IP54 kit is installed around the IR1800 using the four parts previously listed and the screws provided.

Before you begin

Make sure all cables are removed and that the desired FRUs or blanks are installed before assembling the front IP54 cover.

Procedure

Step 1 Attach the mounting plate to the front of the chassis using four of the provided screws.

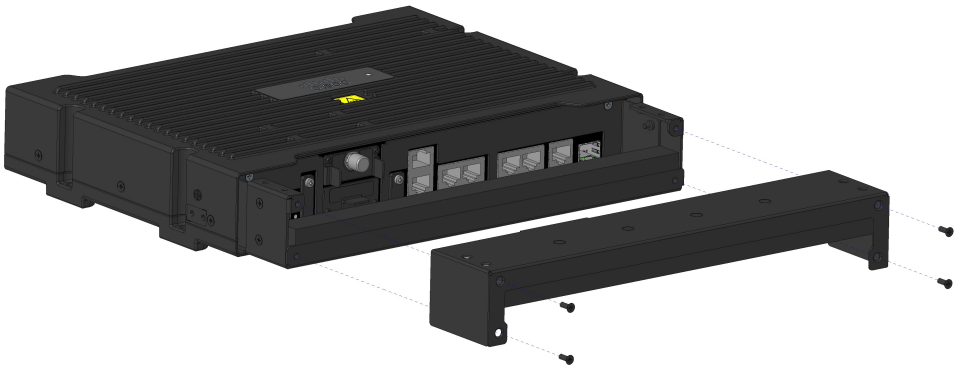


Step 2 Tighten the screws to a torque of 5 to 6 in-lbs.

Step 3 Attach the bottom cover to the mounting plate using four of the provided screws.

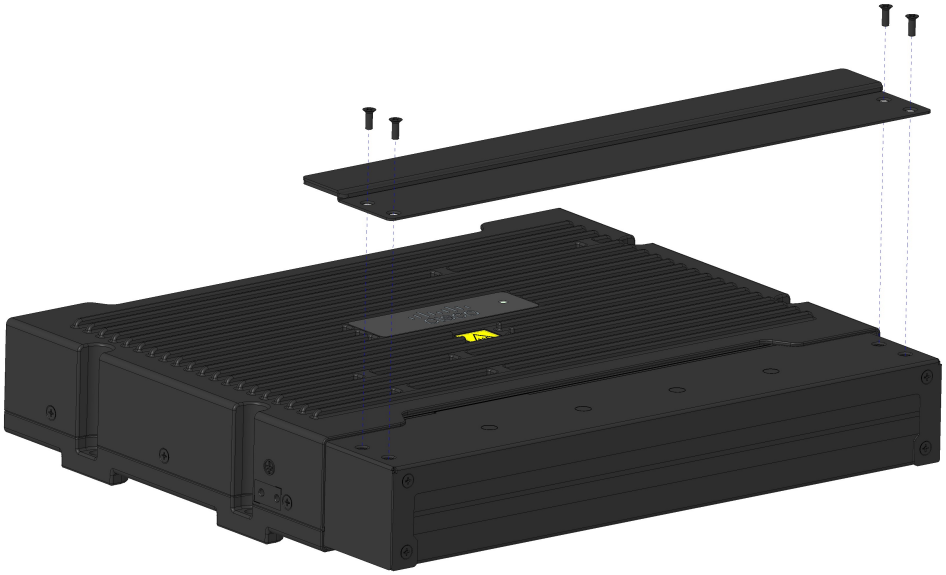
Step 4 Plug in the power and all other cables after the bottom cover is attached. Drape all the cables over the foam seat.

Step 5 Attach the top cover to the bottom cover using four of the provided screws.



Note All the cables should be wedged between the top and bottom foam pieces.

Step 6 Attach the top cover plate to the top cover using four more of the provided screws.



Step 7 The following figure shows the final assembly.

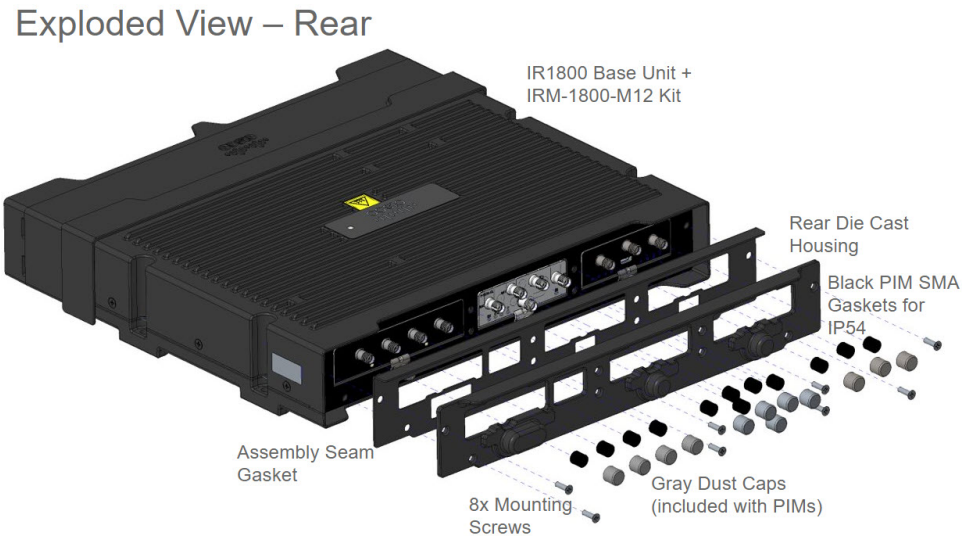
Installing the Rear Cover

The rear cover is installed as a single piece using eight screws provided in the accessory kit.

Procedure

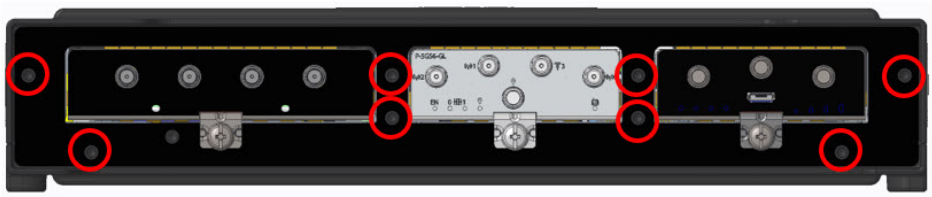
Step 1 Ensure that all the slots have pluggable modules or blanks, and that all the antennae are removed before attaching the rear cover.

Note If your pluggable module has a USB port cover attached, remove the cover. If the USB port cover is installed along with the IP54 rear cover, it will interfere with the installation.



Step 2 Align the rear cover to the back of the IR1800's chassis over the pluggable modules.

Use eight of the provided Phillips screws and tighten them in a star pattern with 6 in-lbs of torque.



Step 3 Install the cylindrical black PIM gaskets over the SMA connectors.

Cover any unused SMA connectors with the dust caps that came with the module.

Step 4 After the cover is in place, attach the antenna cables to the pluggable modules, as needed.

Figure 3: The final assembled unit