RUCKUS Fiber Backpack (Gen 4) Quick Setup Guide

This *Quick Setup Guide* provides step-by-step instructions for setting up your RUCKUS Fiber Backpack (Model: P01-0600, RUCKUS P/N: P01-0600-0000) to work with RUCKUS H550 and H350 access points (APs).

CAUTION! Plugging a PoE injector into the LAN port may cause damage to the device.

CAUTION! Ensure the power is turned off before connecting the wires to the terminal block.

CAUTION! Do not proceed with terminal block connection when the wires are hot.

NOTE: Install the Fiber Backpack in place where there is free airflow without any physical obstruction.

NOTE: Connect the AP DC plug to this unit to supply PoE power to the AP.

NOTE: Please read these operation instructions carefully before start of operation.

Before You Begin

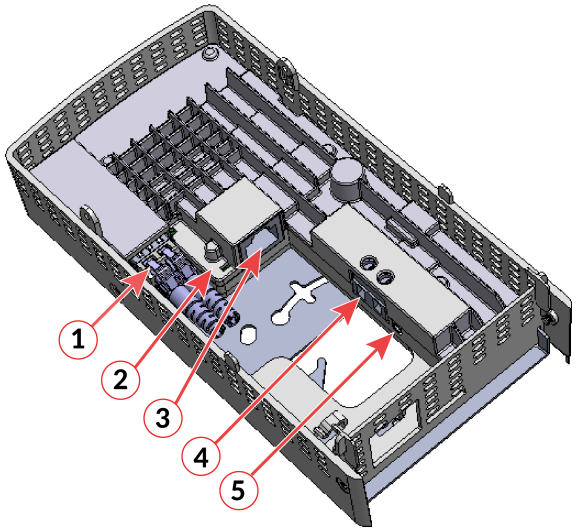
Before deploying RUCKUS products, please check for the latest software and the release documentation.

- Release Notes and other user documentation are available at http://support.ruckuswireless.com/documents.
- Software upgrades are available at http://support.ruckuswireless.com/software.
- Software License and Limited Warranty are available at http://support.ruckuswireless.com/warranty.

About Device

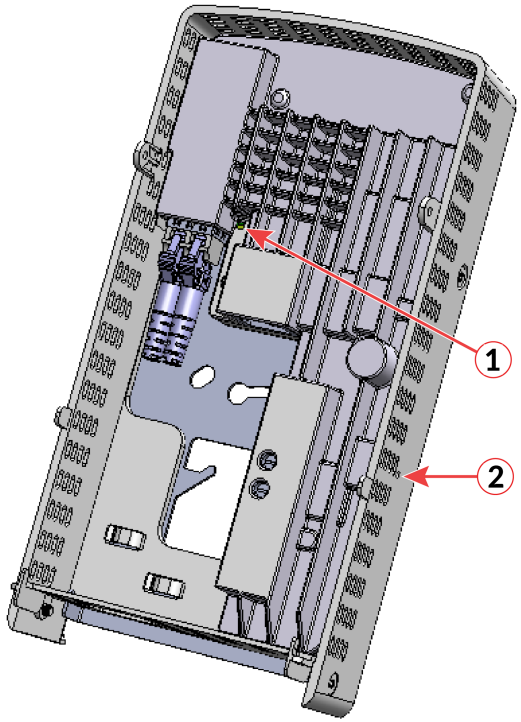
The Fiber Backpack is a bolt-on accessory that provides a cheaper alternative to fiber Optical Network Terminal (ONT) interface devices. It is an assembly and can be installed in the field on-site, enabling fiber backhaul for any existing H550 or H350 installation.

FIGURE 1 Fiber Backpack Elements



1. SFP port
2. Power LED is ON when 3.3V is detected
3. PoE Out
4. Terminal block
5. 48V DC plug

FIGURE 2 Fiber Backpack Elements (continued)



1. SFP LED in ON when light is detected
2. Power or hard reset

Package Contents

A complete Fiber Backpack installation package includes all of the following items:

- Fiber Backpack
- One RJ-45 cable (5 inches)
- One metal bracket
- Mounting kit (screws and clips)
  - 2 Plastite Torx flat-head screws (#4-20 x 6 mm)
  - 2 Torx flat-head screws (M3 x 6 mm)
  - 3 self-adhesive wire retainer
  - 2 screws (6-32 x 1 inch)
- Regulatory Statement/Declaration of Conformity

Installing Fiber Backpack with the AP

NOTE: The Fiber Backpack must be mounted on the mounting bracket prior to the AP.

To install the Fiber Backpack on the AP, refer to the following steps:

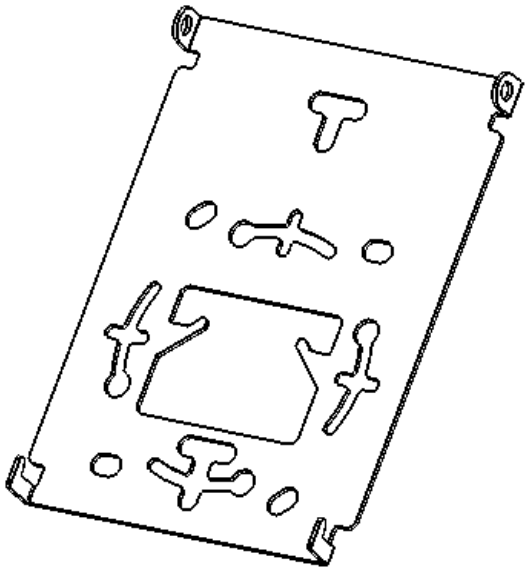
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Step 1: Attaching the Mounting Bracket to an Outlet Box

NOTE: The mounting bracket has two hooks that face up. Make sure that the hooks are facing up when attaching the mounting bracket to the wall outlet box.

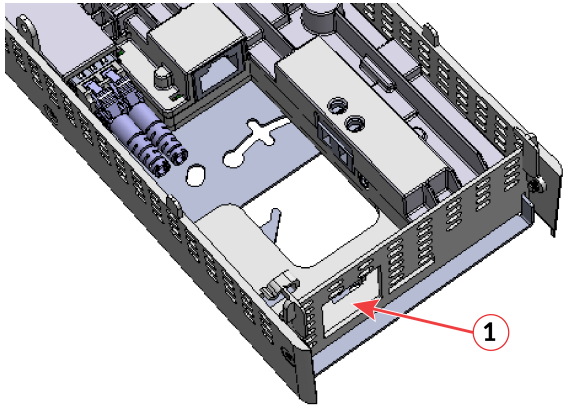
1. Use either the original wall outlet box screws or the factory-supplied 1-inch Phillips pan head machine screws to attach the mounting bracket to a single-gang wall outlet box or to the wall.

FIGURE 3 Mounting Bracket



2. Pull the fiber cable and the power cable through the opening in the bottom of the Fiber Backpack or through the hole in the center of the mounting bracket and Fiber Backpack.

FIGURE 4 Passing the Cables

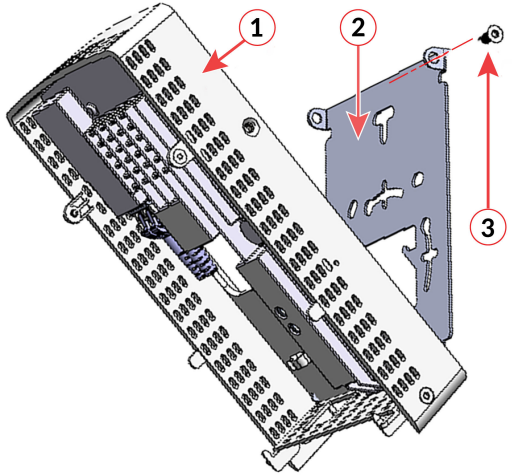


1. Opening to pull the cables

Step 2: Attaching the Fiber Backpack to the Mounting Bracket

1. Make sure that the mounting bracket is securely fastened as described in Step 1: Attaching the Mounting Bracket to an Outlet Box on page 2.
2. The mounting bracket has two lower hooks that fit into slots on the bottom of the Fiber Backpack. Rest the bottom of the Fiber Backpack on the hooks, and then tilt the Fiber Backpack until it is up against the mounting bracket, as shown in the following figure.

FIGURE 5 Fiber Backpack on Mounting Bracket

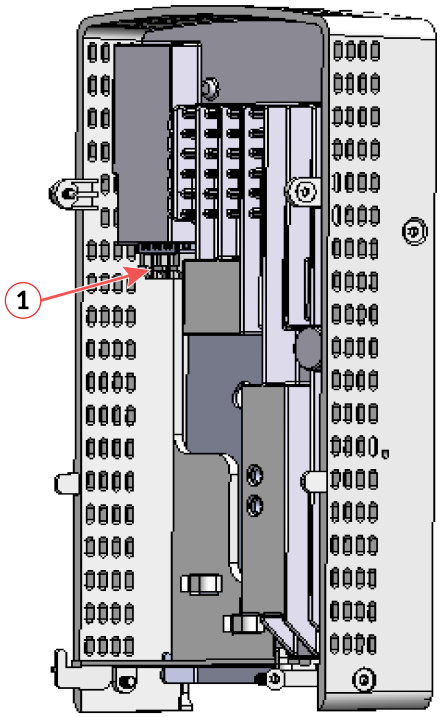


1. Fiber Backpack
2. Mounting bracket
3. Screw

3. Use a T10 Torx screwdriver to insert the factory-supplied Torx flat-head machine screws through the Fiber Backpack screw holes into the threaded inserts on the sides of the mounting bracket, as shown in the preceding figure.
4. Insert the SFP transceiver into the Fiber/SFP port and connect the fiber cable into the SFP transceiver as shown in the following figure.

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FIGURE 6 SFP Transceiver Module



1. SFP Transceiver Module installed in the SFP Port

5. If you are powering the Fiber Backpack with a customer-ordered DC power adapter, ensure that the power cable is able to reach the DC port without any obstruction.
6. Using a DC adapter (sold separately with P/N: 902-0170-XX00 for AP H350 and P/N: 902-2170-XX00 for AP H550), connect the Fiber Backpack 48 V DC port to a protected power source.

CAUTION! Ensure the power is turned off before connecting the wires.

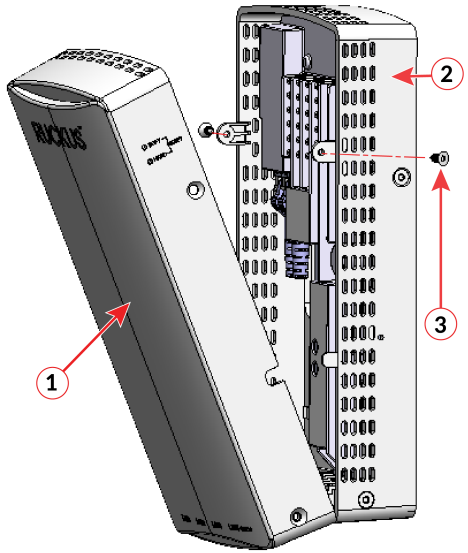
Alternately, power can be supplied through a customer-provided power supply that will connect to a two-pin terminal block. The terminal block connection has surge and polarity protection to protect against inserting the wrong polarity leads into the terminal block.

7. Verify that the Power LED on the front of the enclosure is a steady green.
8. Connect one end of the Ethernet cable to the Ethernet PoE port of the Fiber Backpack.

Step 3: Mounting the AP to the Fiber Backpack

1. Make sure that all the cables are securely connected, as described in Step 2: Attaching the Fiber Backpack to the Mounting Bracket on page 2.
2. Connect the other end of the Ethernet cable to the PoE In port on the rear of the AP.
3. The Fiber Backpack has two lower hooks that fit into slots on the bottom of the AP. Rest the bottom of the AP on those hooks, and then tilt the AP until it is up against the Fiber Backpack, as shown in the following figure.

FIGURE 7 Mounting the AP on Fiber Backpack



1. AP
2. Fiber Backpack
3. Plastite screws

4. Insert the two Torx screws from the kit into the sides of the AP to lock the AP to the Fiber Backpack, as shown in the preceding figure.

Installing Fiber Backpack as a Standalone Unit

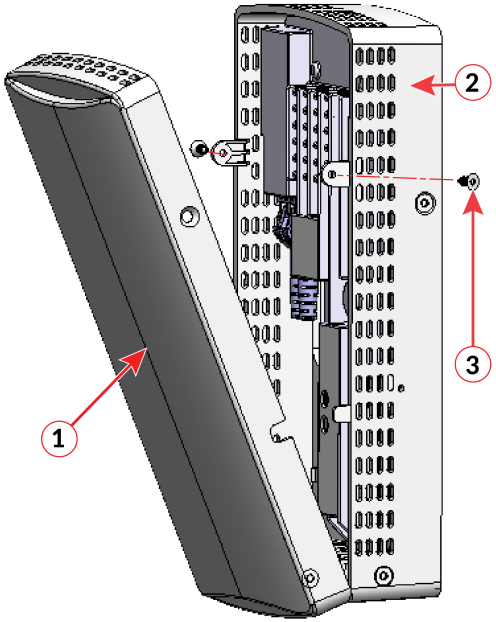
The Fiber Backpack unit requires an external cover (sold separately P/N 902-0601-0000) that allows the Fiber Backpack to be used as a standalone product. To mount the external cover securely with the Fiber Backpack, complete the following steps:

1. To attach the mounting bracket to an outlet box, follow the steps as described in Step 1: Attaching the Mounting Bracket to an Outlet Box on page 2.
2. To attach the Fiber Backpack to the mounting bracket, follow the steps as described in Step 2: Attaching the Fiber Backpack to the Mounting Bracket on page 2.
3. Connect one end of the Ethernet Cable to the Ethernet PoE Port of the Fiber Backpack and pull the cable through the opening pin the bottom of the unit.

NOTE: For a standalone unit, a longer Ethernet cable (customer supplied) is required to attach to the AP.

4. The Fiber Backpack has two lower hooks that fit into slots on the bottom of the external cover. Rest the bottom of the external cover on those hooks, and then tilt the external cover until it is up against the Fiber Backpack as shown in the following figure.

FIGURE 8 Standalone Fiber Backpack Unit



1. External cover
2. Fiber Backpack
3. Plastite screws

5. Insert the two pointed Torx screws from the kit into the sides of the external cover to lock the external cover to the Fiber Backpack as shown in the preceding figure.

For More Information

For information on how to configure and manage the AP, refer to the *RUCKUS Indoor Access Point User Guide*, available from http://docs.commscope.com/?docs-box.

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