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Unleashed T750 Access Point Quick Setup Guide

This Quick Setup Guide provides step-by-step instructions on how to field-install the Ruckus Unleashed T750 access point (AP). For detailed information on configuration and management of the Unleashed T750, refer to the *Unleashed 200.9 Online Help*, available at https://docs.ruckuswireless.com/unleashed/200.9/index.html.

WARNING! Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

WARNING! Installation of this equipment must comply with local and national electrical codes.

CAUTION! Make sure that you form a 80mm - 130mm (3”-5”) drip loop in any cable that is attached to the AP or the building. This will prevent water from running along the cable and entering the AP or the building where the cable terminates.

CAUTION! Be sure that grounding is available and that it meets local and national electrical codes. For additional lightning protection, use lightning rods and lightning arrestors.

CAUTION! Make sure that proper lightning surge protection precautions are taken according to local electrical code.

WARNING! Ruckus Wireless strongly recommends that you wear eye protection before mounting the T750 Omni.

This Guide in Other Languages

- 请从以下网站获得该指南的简体中文版 https://support.ruckuswireless.com.
- Vous trouverez la version française de ce guide à l'adresse suivante https://support.ruckuswireless.com.
- このガイドの日本語版は https://support.ruckuswireless.com でご覧ください。
- 이 가이드의 한국어 버전은 웹 사이트 (https://support.ruckuswireless.com) 에서 확인하시기 바랍니다.
- Veja a versão em português (Brasil) deste guia em https://support.ruckuswireless.com.
- Puede ver la versión en español (América Latina) de esta guía en https://support.ruckuswireless.com.

Required Hardware and Tools

- 1/2” (13 mm) flat-blade screwdriver or equivalent
- No. 2 Phillips screwdriver
- Small flat-blade screwdriver
- Torque wrench or torque screwdriver with sockets
- Long-nose pliers
- Electrical wire stripping and terminal crimping pliers
- Pipe, pole or a sturdy flat surface
- Electric drill with drill bits and customer-supplied wall anchors, flat washers, and hex nuts for flat-surface mount

Package Contents

A complete T750 field installation package includes all of the items listed below :

- T750 Access Point
- M25 data cable gland extender
- Three M25 data cable glands
- Outdoor AP Mounting Bracket kit
- One ground wire with lug
- Cloud Management Statement
- Cable gland extender gasket
- AC Connector
- Zipcord cable gland grommet
- Four 1/2” (12.7 mm) wide adjustable clamps, 2.5” (63.5 mm) diameter, for main mounting bracket on smaller poles
- Safety cable kit
- Service Level Agreement/Limited Warranty Statement
- Declaration of Conformity
- Regulatory Statement
- Ruckus Wireless AP Getting Started Guide
- This Quick Setup Guide

Unleashed Network Configuration

Setup Using the Unleashed Mobile App

To perform setup using the Unleashed Mobile App, download the iOS or Android app from the app store.

1. As soon as the Unleashed AP is powered on and connected to the local network, it boots up and begins broadcasting a temporary unencrypted WLAN named “Configure.Me-[xxxxxx]” from both radios.
2. Using your client’s Wi-Fi connection settings, select and associate to the “Configure.Me-[xxxxxx]” WLAN.
3. Launch the app, and follow the on-screen instructions to configure your Unleashed network(s).

FIGURE 1 Unleashed Mobile App for iOS and Android

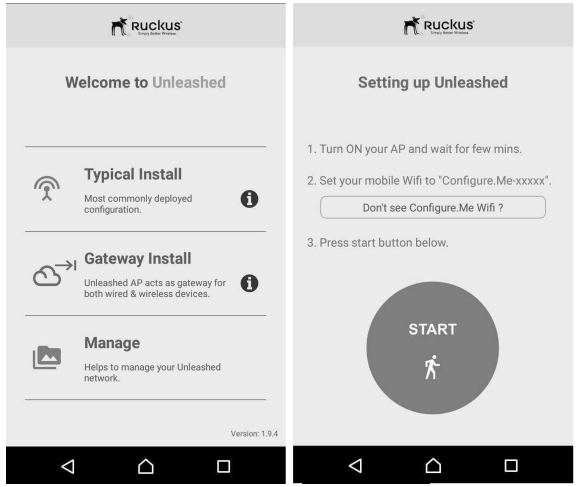
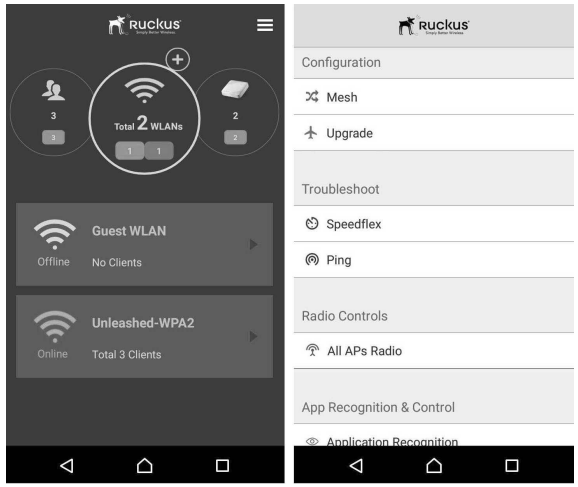


FIGURE 2 Configuring Unleashed from the Mobile App

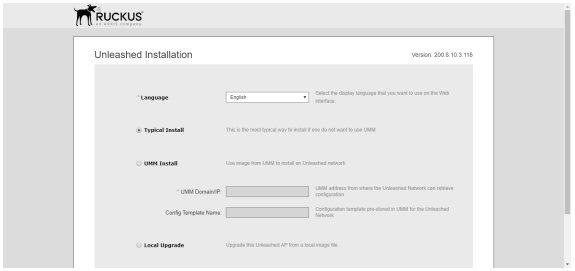


Setup Using a Web Browser

1. As soon as the Unleashed AP is powered on and connected to the local network, it boots up and begins broadcasting a temporary unencrypted WLAN named “Configure.Me-[xxxxxx]” from both radios.
2. Using your client’s Wi-Fi connection settings, select and associate to the “Configure.Me-[xxxxxx]” WLAN.
3. Launch a web browser and enter the following into the browser’s URL bar: *unleashed.ruckuswireless.com*, and press **Enter**.
4. You will be redirected to the Setup Wizard. Complete the steps in the Setup Wizard and click **Finish**.

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FIGURE 3 Complete the Setup Wizard to set up your Unleashed network



5. Once the Setup Wizard is finished, a "Configuring system settings and rebooting" progress screen appears. Wait until the process is complete.
6. Connect to the WLAN that you configured in the Setup Wizard, and click OK to reconnect. You will be redirected to the Unleashed login screen.
7. Enter your Admin Name and Password to login.

FIGURE 4 The Login page



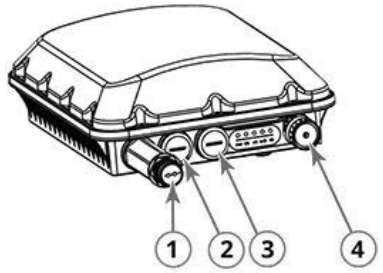
8. Upon successful login you will be presented with the Unleashed Dashboard, which displays an overview of your Ruckus Unleashed network.

Mounting Instructions

Connecting and Sealing the RJ-45 Cables

The T750 may use zero, or one or two RJ-45 cables, one for Ethernet when configured as a Root AP (RAP), and another when the T750 is supplying PoE out to a peripheral device, such as a small cell or micro cell radio. When the T750 uses RJ-45 cables, connect and seal the cables using the M25 data cable glands as shown in Figure 2.

FIGURE 5 T750 AP PoE IN and PoE OUT ports



1. SFP port
2. PoE IN
3. PoE OUT
4. AC port

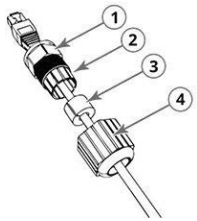
WARNING! Do not use any PoE injector not tested and approved by Ruckus Wireless to power the T750 Access Point.

WARNING! Do not plug PoE IN power into the PoE OUT port. See Figure 1.

1. Feed the end of the cable through the gland dome, rubber grommet, clamping ring assembly and cable gland base, as shown in Figure 2.

NOTE: Do not seat the clamping ring and rubber grommet into the cable gland base until the cable gland base has been torqued to specifications.

FIGURE 6 RJ-45 Cable and Cable Gland Assembly



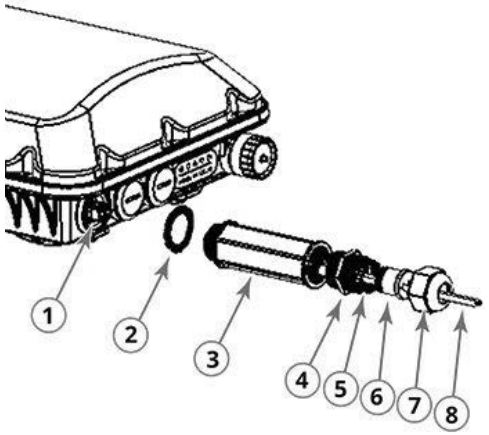
1. SFP Port
2. Clamping ring
3. Rubber grommet
4. Gland dome

2. Use a wide flat-blade screwdriver to remove the required (PoE OUT or PoE IN) blanking cap from the T750.
3. Connect the cable to the Ethernet port in the AP.
4. Tighten the cable gland base to 7 N.m (62 in-lbs).
5. Wrap the clamping ring assembly around the rubber grommet. Make sure that the clamping ring assembly fully encloses the rubber grommet.
6. Seat the clamping ring assembly and rubber grommet in the cable gland base.
7. Hand-tighten the gland dome.

Connecting the SFP Optic Module Using a Single Diameter Cable

You can use a single diameter cable to connect to the SFP optic module.

FIGURE 7 SFP module cable gland assembly



1. SFP transceiver
2. Cable gland gasket
3. Cable gland extender
4. Cable gland base
5. Clamping ring
6. Cable gland grommet / zipcord cable gland grommet
7. Gland dome
8. Fibre cable

WARNING! The fiber cable is extremely fragile and must be handled with care.

NOTE: Do not insert the cable gland base/grommet/dome into the extender until the extender has been tightened. Step 5 must be performed before Step 6, else the fiber cable will twist.

1. Place the cable gland base to the cable gland extender and tighten the cable gland base to 7 N.m (62 in-lbs).
2. Fix the Cable gland extender gasket to the cable gland extender.
3. Feed the fiber cable through the gland dome, cable gland grommet, clamping ring, cable gland base, cable gland extender, and cable gland gasket as shown in Figure 3.
4. Connect the fiber cable to the SFP transceiver in the AP.
5. Tighten the cable gland extender to 7 N.m (62 in-lbs).
6. Insert the cable gland grommet into the clamping ring with the fiber cable in the center.
7. Insert the clamping ring into the cable gland base.
8. Tighten the cable gland dome to 7 in-lbs.

   The SFP module is hot-swappable and can be removed with fingers or simple tools.

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Connecting the SFP Optic Module Using a Zipcord Cable

You can use a zipcord cable to connect to the SFP optic module.

WARNING! The zipcord fiber cable is extremely fragile and must be handled with care.

NOTE: Do not insert the cable gland base/grommet/dome into the extender until the extender has been tightened. Step 5 must be performed before Step 6, else the fiber cable will twist.

1. Place the cable gland base to the cable gland extender and tighten the cable gland base to 7 N.m (62 in-lbs).
2. Fix the Cable gland extender gasket to the cable gland extender.
3. Feed the zipcord fiber cable through the gland dome, zipcord cable gland grommet, clamping ring, cable gland base, cable gland extender, and cable gland gasket as shown in Figure 3.
4. Connect the zipcord fiber cable to the SFP transceiver in the AP.
5. Tighten the cable gland extender to 7 N.m (62 in-lbs).
6. Insert the zipcord cable gland grommet into the clamping ring with the zipcord fiber cable in the two holes.
7. Insert the clamping ring into the cable gland base.
8. Tighten the cable gland dome to 7 in-lbs.

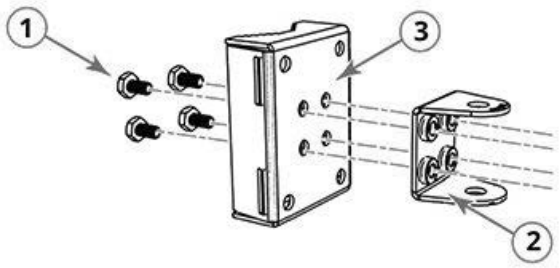
   The SFP module is hot-swappable and can be removed with fingers or simple tools.

Attaching the U-Joint Bracket to the Mounting Bracket

1. Position the U-joint bracket on the mounting bracket.

   NOTE: Mount the U-joint bracket in any direction on the mounting bracket, preferably to allow AP azimuth adjustments. Then the AP bracket allows AP elevation adjustments.

FIGURE 8 U-joint bracket attached horizontally to the mounting bracket



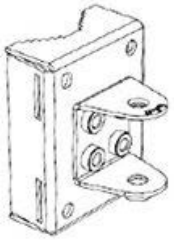
1. Bolts
2. U-joint bracket
3. Mounting bracket

2. Use four 1/4 - 28 bolt and washer sets (1) to mount the U-joint bracket (2) to the mounting bracket (3). Tighten the bolts to 9.5 N.m (84 in-lbs).
3. Continue with Attaching the Mounting Bracket to a Flat Surface *on page 3*.

Attaching the Mounting Bracket to a Flat Surface

1. Place the mounting bracket at the location on the flat surface where you want to mount the AP. Use the holes on the mounting bracket as a template to mark the locations of the mounting holes.

FIGURE 9 Mounting bracket flat surface holes



2. Remove the mounting bracket from the flat surface.
3. Drill holes required for the mounting hardware.

   NOTE: The hardware required for mounting to a wall are not included in the mounting kit.

4. Attach the mounting bracket to the flat surface using the mounting hardware.
5. Using the mounting hardware instructions, tighten the hardware to secure the mounting bracket.
6. Continue with Attaching the Mounting Bracket to a Pole *on page 3*.

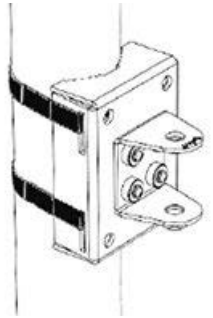
Attaching the Mounting Bracket to a Pole

1. Insert the open end of one steel clamp into the upper two slots on the mounting bracket.
2. Take the other steel clamp and insert it into the lower two slots on the mounting bracket.

   NOTE: The clamps can be daisy-chained together to accommodate larger poles.

3. Use the clamps to attach the mounting bracket to the pole. Tighten the clamps to 3 N.m (27 in-lbs) or per manufacturer's specifications.

FIGURE 10 Attaching the mounting bracket to a vertical pole



4. Continue with Mounting the Linkage Bracket to the U-Joint Bracket *on page 3*.

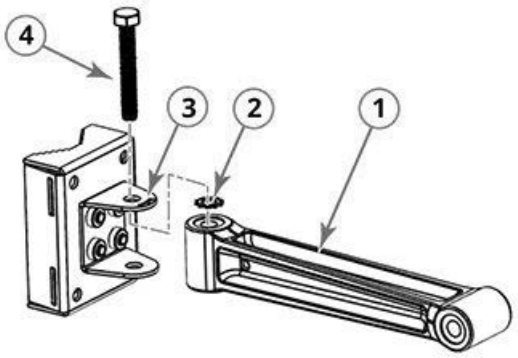
Mounting the Linkage Bracket to the U-Joint Bracket

1. The linkage bracket attaches to the U-joint bracket using an M8 bolt and washer set. The linkage bracket is symmetrical, and either end can be attached to the U-joint bracket.

   NOTE: Make sure that linkage bracket is installed with its serrated external-tooth lock washer on the inside of the U-joint bracket flanges. This ensures that the azimuth adjustment does not change.

2. Loosely assemble the linkage bracket (1), the U-joint bracket (3), one serrated external-tooth lock washer (2), and one M8 bolt and washer set (4).

FIGURE 11 Attaching the linkage bracket to the U-joint bracket



1. Linkage bracket
2. U-joint braket
3. External-tooth lock washer
4. M8 bolt

3. Set the azimuth required by the AP.
4. Tighten the M8 bolt to 13.6 N.m (120 in-lbs).

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5. Continue with Attaching the AP Bracket to the Linkage Bracket *on page 4*.

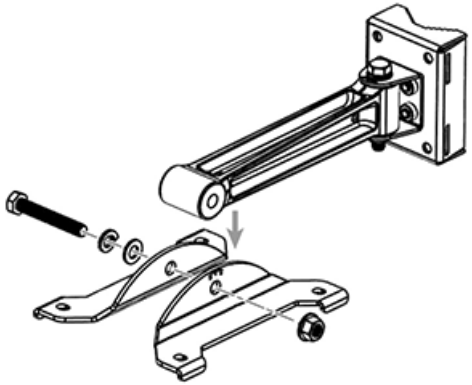
Attaching the AP Bracket to the Linkage Bracket

Attach the AP bracket to the linkage bracket using the included bolt, lock washer, flat washer, serrated external-tooth washer and nut shown in the illustration below.

The linkage bracket is symmetrical, and either end can be attached to the AP bracket.

Loosely assemble the AP bracket to the linkage bracket using the M8 bolt, washer and nut set.

FIGURE 12 Attach the linkage bracket to the AP bracket

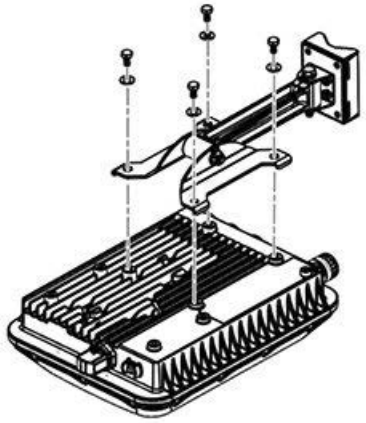


NOTE: Make sure that the linkage bracket is installed with its serrated external-tooth lock washer on the *inside* of the AP bracket flanges. This ensures that the elevation adjustment does not change.

Attaching the AP Bracket to the Access Point

1. Place the AP bracket onto the back side of the AP so that the four larger screw holes on the bracket align with the four screw holes on the AP.

FIGURE 13 Attaching the AP bracket to the AP



2. Use four 0.5-inch x 0.250-28 hex bolts with split lock and flat washer sets to mount the AP bracket to the AP. Tighten the bolts to 2.5-3.0 N.m (22-27 in-lbs).

CAUTION! Make sure that the screws are no longer than 0.5 inch. If a screw is longer than 0.5 inch, it can damage the AP chassis.

NOTE: This kit may include extra screws, nuts and washers. You may use the extras where required.

3. Continue with Set the Elevation and Tighten the Elevation Bolt *on page 4*.

Set the Elevation and Tighten the Elevation Bolt

1. Set the elevation required by the AP.
2. Tighten the M8 bolt to 13.6 N.m (120 in-lbs).
3. Continue with Powering the AP with AC *on page 4*.

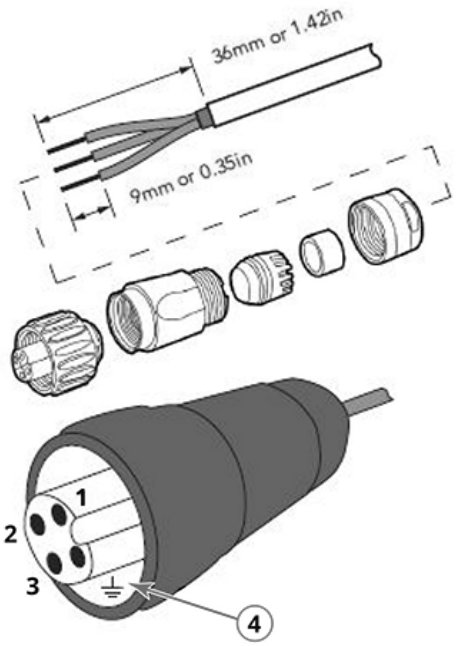
Powering the AP with AC

1. Separate the AC cable connector parts by unscrewing the boot from the cable gland and the cable gland from the connector housing..
2. Feed the end of the AC cable through the boot and cable gland.
3. Strip the AC cable as shown.
4. Insert the stripped part of the conductors into the appropriate terminals on the connector housing. The conductors are color coded and must be connected to the appropriate terminals as shown in figure below.

NOTE: The color coding of wire conductors varies by region. Before completing this step, check your local wiring standards for guidance.

FIGURE 14 Assembling the AC power connector

Wire Stripping (Not Actual Size)



1. (Neutral/Return): White or Gray (US), Blue (EU)
2. (Line/Hot): Black (US), Brown (EU)
3. (not used)
4. (Earth Ground): Green (US), Green/Yellow (EU)

5. Using a small screwdriver, tighten the small screws around the connector housing to fix the connector pins into the terminals.
6. Mate the cable gland with the connector housing, and then hand-tighten.

NOTE: Two different-sized grommets are supplied in the AC connector assembly kit. Use the grommet that is appropriate to the diameter of the AC cable that you are using.

7. Mate the boot with the cable gland, and then hand-tighten to seal.
8. Connect the AC cord connector that you have assembled to the AC power socket on the AP.
9. Connect the AC cord to an AC power source.

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