



T710 Access Point Mounting Guide



CAUTION! THE MINIMUM SOFTWARE REVISION FOR THE T710 IS ZONEFLEX (ZF) 9.12.2 OR LATER. **DO NOT CONNECT THE T710 TO A RUCKUS WIRELESS CONTROLLER WITH ZF 9.12.1 OR EARLIER.**

This *Mounting Guide* provides step-by-step instructions on how to field-install the Ruckus Wireless ZoneDirector T710 access point (AP). For detailed information on planning the installation, performing a site survey, and operating the T710, refer to the *ZoneFlex Outdoor Access Point User Guide*, available at <https://support.ruckuswireless.com>.

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 T710.

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>

をご覧ください。

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>.

BEFORE YOU BEGIN

Before deploying your Ruckus Wireless T710, verify that all items listed in [Package Contents](#) are included in the package. If any item is damaged or missing, notify your authorized Ruckus Wireless sales representative. Also, make sure that you have the required hardware and tools.

REQUIRED HARDWARE AND TOOLS

- Customer-supplied outdoor-rated three-wire (1-2mm² or 14-18AWG) AC cable
- Customer-supplied earth-ground wire (3-5mm² or 10-12 AWG)
- 1/2" (13mm) 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 or 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
- Two customer-supplied M16 (5/8") carriage bolts for main mounting bracket on a wooden pole
- Four customer-supplied 6mm (1/4") bolts or screws for main mounting bracket --OR--
Four customer-supplied 14mm (1/2") bolts or screws for main mounting bracket --OR--
Four factory-supplied 1/2" (12.7mm) wide stainless steel adjustable clamps, 2.5" (63.5mm) diameter, for main mounting bracket on smaller poles --OR--
Two 7/8" customer-supplied (22mm) wide stainless steel adjustable clamps for main mounting bracket on larger poles
- Ruler

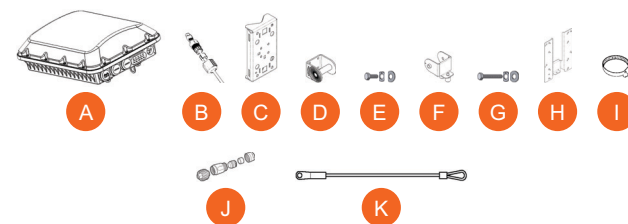
PACKAGE CONTENTS

A complete T710 field installation package includes all of the items listed below:

- T710 Access Point (A in Figure 1), includes crimp-type earth-ground ring terminal
- Two M25 data cable glands (B in Figure 1)
- One main mounting bracket (C in Figure 1)
- One U-joint bracket (D in Figure 1)
- Nine sets 12mm M6 x 1 hex bolt with lock and flat washers (E in Figure 1)
- One hook bracket (F in Figure 1)
- One set 70mm M8x1.25 hex bolt with spring lock and flat washers (G in Figure 1)
- One AP attachment bracket (H in Figure 1)
- Four SAE32 steel clamps, 2.5-inch diameter (I in Figure 1)
- One AC power cable input end connector and cap (J in Figure 1)

- One safety cable (K in Figure 1)
- This *Mounting Guide*

Figure 1: T710 field-installation package contents



The field installation package can also include:

- Service Level Agreement/Limited Warranty Statement
- Regulatory Statement
- Registration card
- Declaration of Conformity, if required

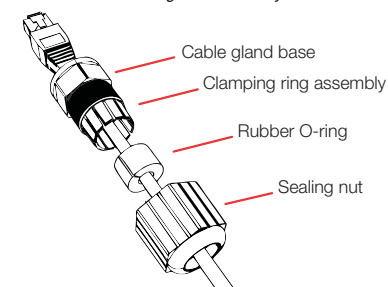
NOTE: This kit can include extra screws, nuts and washers. You may use the extras wherever required.

STEP 1: CONNECTING AND SEALING THE RJ-45 CABLES

The T710 may use zero, or one or two RJ-45 cables, one for Ethernet when configured as a Root AP (RAP), and one when the T710 is supplying PoE out to a peripheral device, such as a small cell or micro cell radio. When the T710 uses RJ-45 cables, connect and seal the cables using the M25 data cable glands (B in Figure 1).

- 1 Feed the end of the cable through the sealing nut, rubber O-ring, clamping ring assembly and cable gland base as shown in Figure 2.

Figure 2: RJ-45 cable and cable gland assembly



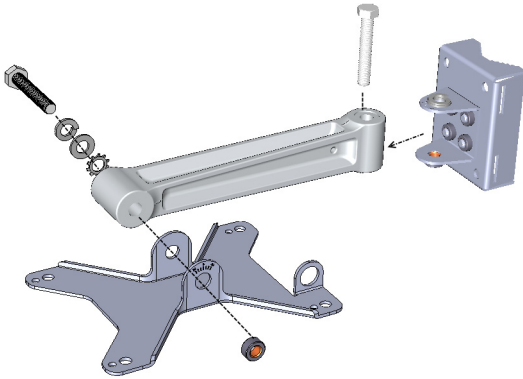
- 2 Use a wide flat-blade screwdriver to remove the required (RESET/ PoE OUT or PoE IN) blanking cap from the T710.
- 3 Connect the cable to the Ethernet port in the T710.
- 4 Tighten the cable gland base into the T710 chassis to 7 N.m or 62 in-lbs.

- 5 Wrap the clamping ring assembly around the rubber O-ring. Make sure that the clamping ring assembly fully encloses the rubber O-ring.
- 6 Seat the clamping ring assembly and rubber O-ring in the cable gland base.
- 7 Hand-tighten the sealing nut.

STEP 2: ASSEMBLE THE MOUNTING BRACKET

- 1 Assemble the Mounting Bracket as shown in Figure 3.

Figure 3: Assemble the mounting bracket

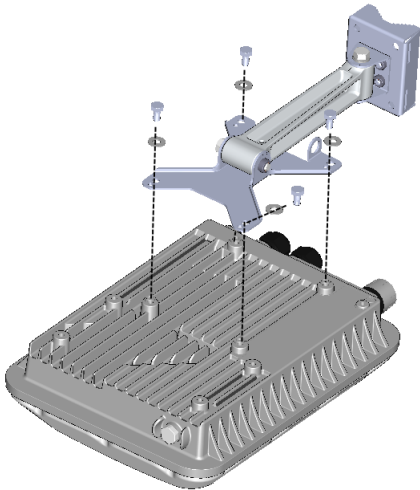


- 2 Continue with Step 3.

STEP 3: ATTACH THE MOUNTING BRACKET TO THE AP

- 1 Attach the Mounting bracket to the bottom of the AP as shown in Figure 4.

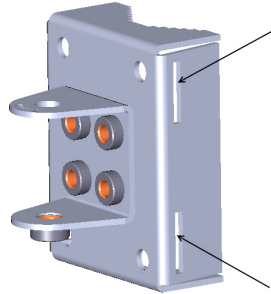
Figure 4: Use four bolts and lock washers to attach the mounting bracket



STEP 4: ATTACH THE MOUNTING BRACKET TO A POLE

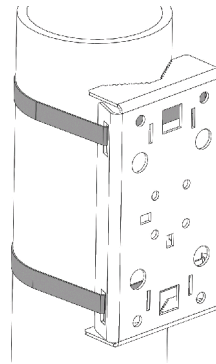
- 1 Wrap the steel clamps around the pole, then insert steel clamps into the clamp slots on the mounting bracket.

Figure 5: Steel clamp slots for a vertical pole



- 2 Tighten the clamps to 3 N.m or 27 in-lbs, or per manufacturer's specifications.

Figure 6: Bracket attached to pole



- 3 Continue with Step 5.

STEP 5: 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 7.

Typical AC wire colors:

- $\perp$ (Earth Ground): Green (US), Green/Yellow (EU)
- 1 (Neutral/Return): White or Gray (US), Blue (EU)

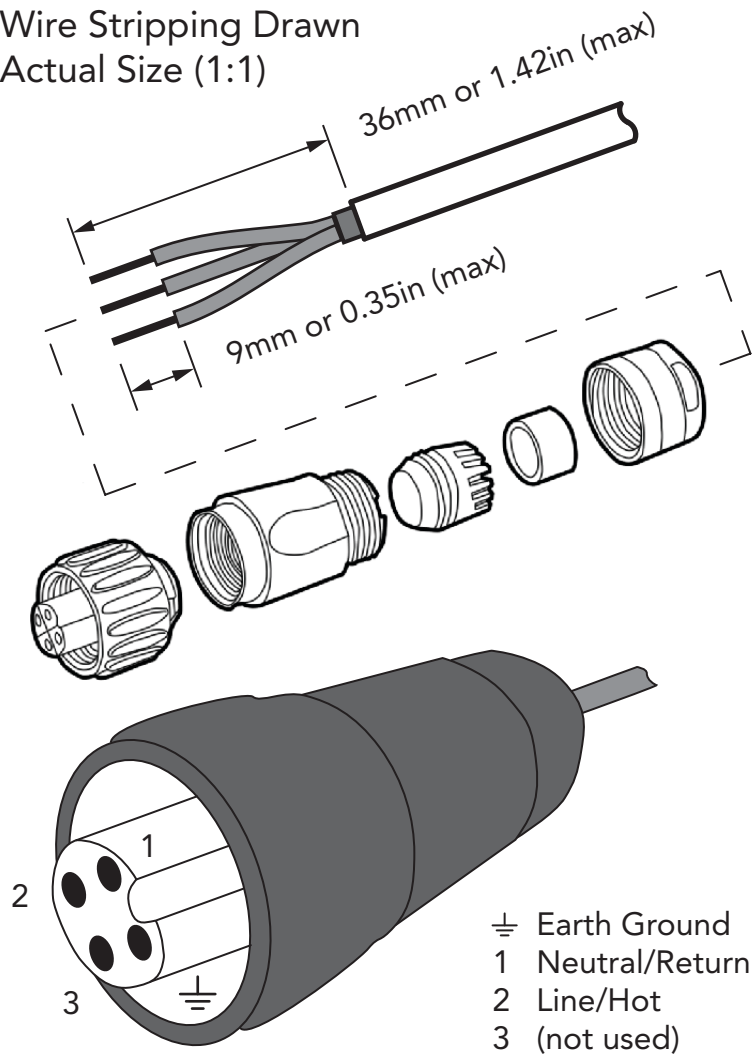
- 2 (Line/Hot): Black (US), Brown (EU)
- 3 (not used)

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

- 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.

Figure 7: Assembling the AC power connector

Wire Stripping Drawn Actual Size (1:1)



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.

CAUTION: If required, you can reset the AP to its factory default settings by pressing the reset button located inside the PoE OUT/RESET port. DO NOT DO THIS UNLESS SO INSTRUCTED. (Doing this resets the T710 IP address to 192.168.0.1.)

NOTE: After a reset, you can access the internal T710 AP web interface using <https://192.168.0.1>. Your device must use any other address from 192.168.0.2 through 192.168.0.254, with subnet mask 255.255.255.0 and default gateway 192.168.0.1. The username is super, and the password is sp-admin. Refer to the ZoneFlex SmartCell T710 Outdoor Access Point Installation Guide and the ZoneFlex Outdoor Access Point User Guide for information on configuring and operating the T710 AP. Both documents are available at <https://support.ruckuswireless.com>.

Congratulations! You have mounted the T710 access point.

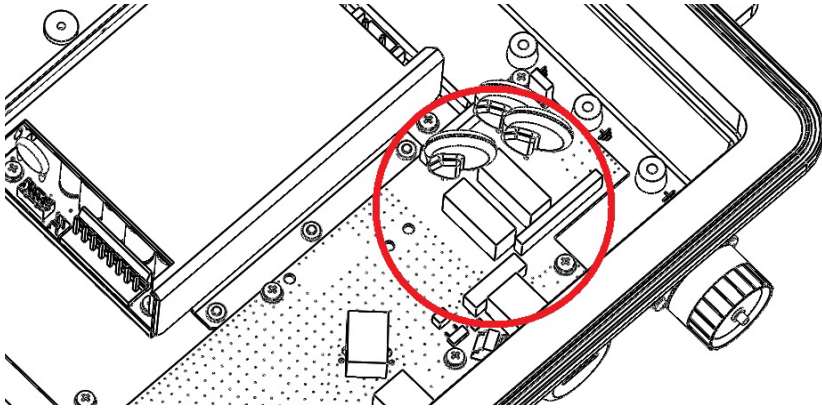
TROUBLESHOOTING: REPLACING THE AP FUSES (ONLY IF REQUIRED)

NOTE: If the PWR LED does not turn on at all, one or both of the AC power supply fuses inside the T710 chassis may have burned out. Replace them as follows:

- 1 Remove power from the T710.
- 2 Open the T710 cover and replace any burned-out 5A, 250V, slow-blow fuse(s), as required.

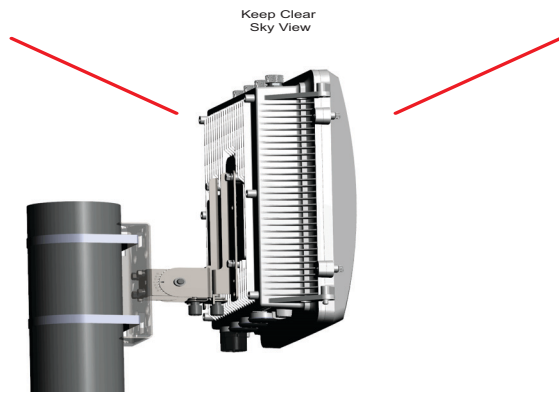
Figure 8 shows the T710 fuse locations.

Figure 8: Fuse locations



- 3 Make sure that the gasket around the front cover is in its channel.
- 4 Loosely close the front cover of the T710.
- 5 Tighten the four front-cover captive screws in the order shown in Figure 9 to 1.7 N.m (15 in-lbs).
- 6 Retighten the four front-cover captive screws in the order shown to 2.3 N.m (20 in-lbs).
- 7 Retighten the four front-cover captive screws in the order shown to 2.8 N.m (25 in-lbs).

Figure 9: Front cover screw-tightening pattern



- 8 Re-apply power to the T710.
- You have completed replacing the fuses in the T710.