T670 AP and Strand-Mount Bracket Quick Setup Guide

The T670 strand-mount bracket mounts the T670 access point (AP) to an overhead strand. Kit SKU 901-T670-US11 includes a T670 AP and the required strand-mounting hardware. This *Quick Setup Guide* provides step-by-step instructions on how to use the strand-mount bracket to mount your T670 outdoor AP on a standard overhead strand. For detailed information on planning the installation, performing a site survey, and operating the T670 Omni with USB support, refer to the *RUCKUS Access Point Getting Started Guide*, available at https://support.ruckuswireless.com.

NOTE: The minimum software version for the T670 Omni AP is SmartZone (SZ) 7.1 or later with new AP model patch and SmartZone (SZ) 7.1.1 and later with native support, Unleashed (UN) 200.18 or later, and RUCKUS One (R1) 7.1.0.512 or later.

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

DANGER: *Only trained and qualified personnel should install, replace, or service this equipment. The AP must be installed on a cable strand by a professional cable installer.*

WARNING! RUCKUS strongly recommends that you wear eye protection before mounting the T670 Omni support.

CAUTION! Make sure that you form a 80mm - 130mm (3 in.- 5 in.) 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! Make sure that proper lightning surge protection precautions are taken according to local electrical code. For additional lightning protection, use lightning rods and lightning arrestors.

WARNING! Mounted equipment must be grounded. If the cable strand is not grounded, you must ground the mounted equipment by connecting a customer-supplied ground wire to the grounding lug on the mounted equipment, and then connect the other end to a reliable earth ground. If you are uncertain if suitable grounding is available, contact the appropriate electrical inspection authority or an electrician.

Package Contents

- T670 outdoor AP kit comprising:
  - One T670 outdoor AP
  - One ground wire with lug
  - M25 data cable glands
  - Two grommets
  - Security cable
  - Declaration of Conformity
- Strand-mount bracket kit comprising:
  - One strand bracket
  - Two strand mount hangars
  - Six 0.250-28 x .50-inch hex bolts
  - Ten 0.250 split lock washers
  - Ten 0.250 flat washers
  - Four 0.250-20 x .75-inch carriage bolts
  - Four 0.250-20, hex nuts

Required Tools

- 7/16-inch socket and ratchet torque wrench
- 5/8-inch crowfoot wrench and ratchet torque wrench
- ½-in. (13 mm) flat-blade screwdriver or equivalent
- No. 2 Phillips screwdriver

LED Signals

The LED on the AP has several colors that indicate the various states of the AP. The following table provides a high-level description of each color that may appear on the AP.

TABLE 1 AP LED Signals

Color	Light Pattern	Description
Red	Solid Red	AP is determining power mode
	Slow Blinking Red	AP is in 802.3af power mode
	Blinking between Red and Green	AP is undergoing factory reset
	Blinking between Red and Amber	AP is proceeding with a Factory Reset to Recovery Mode
Amber	Solid Amber	AP has sufficient power and is now booting up
	Blinking Amber	System network gateway is lost
	Slow Blinking Amber	AP system controller interface is lost
	Fast Blinking Amber	AP is being loaded with a firmware or configuration update

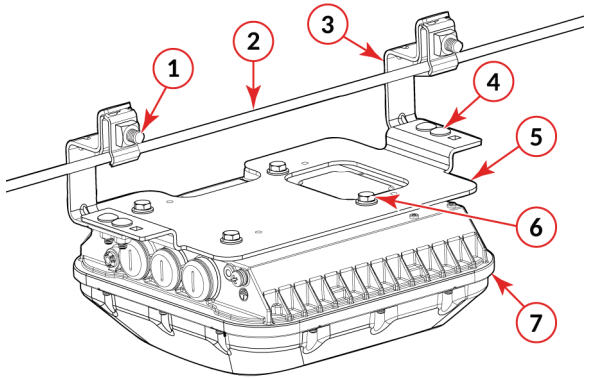
TABLE 1 AP LED Signals (continued)

Color	Light Pattern	Description
Green	Solid Green	AP WLANs, services, and controller management are operational
	Solid Green without Advanced Mode or Slow Blinking Green with Advanced Mode	AP WLAN has at least one client connected
	Solid Green without Advanced Mode or Slow Blinking between Green and Amber with Advanced Mode	AP WLAN has at least one client connected and mesh networking is enabled
No Color	OFF	• No power • Controller connectivity is lost • The LED has been disabled via the controller
All Colors	Blinking between Red, Green, and Amber	AP is set via the controller to blink the LED

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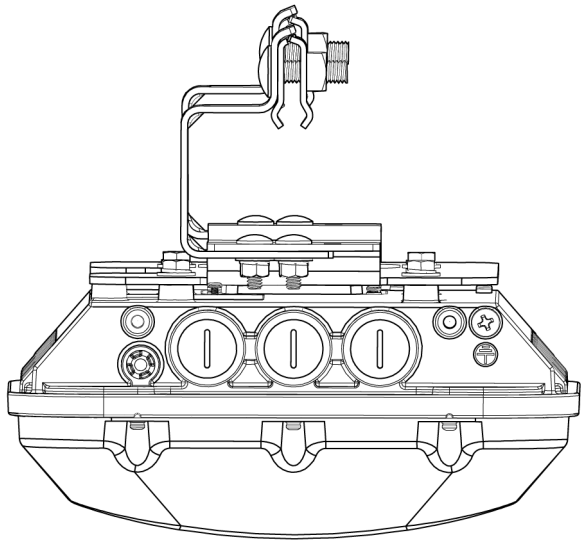
Different Views of the AP and Strand-Mount Assembly

FIGURE 1 T670 AP and Strand-Mount Bracket Assembly (Aerial View)



1. 3/8 x 16, 1.25-inch bolt and square nut
2. Strand (cable)
3. Strand clamp
4. 0.250-20 carriage bolt, hex nut, and split lock washers
5. Strand bracket
6. 0.250-28 hex bolts and washers
7. T670 AP

FIGURE 2 T670 AP (Port-side View) and Strand-Mount Bracket Assembly

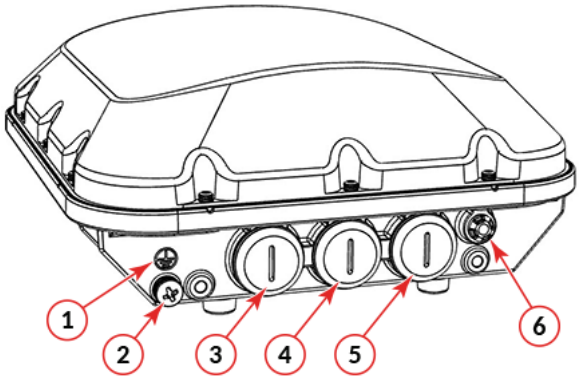


Mounting Instructions

Connecting and Sealing the RJ-45 Cables

The T670 may use zero, or one or two RJ-45 cables: one for Ethernet when configured as a Root AP (RAP), and another when the T670 is connecting to a peripheral device, such as a small cell or micro cell radio. When the T670 uses RJ-45 cables, connect and seal the cables using the M25 data cable glands as shown in Figure 4.

FIGURE 3 T670 AP Port-side View



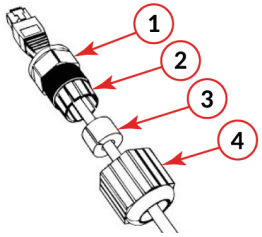
1. Ground symbol
2. Ground screw
3. PoE IN
4. Ethernet
5. DC
6. LED indicators

WARNING! Do not use any PoE injector not tested and approved by RUCKUS to power the T670 Access Point.

1. Feed the end of the cable through the gland dome, rubber grommet, clamping ring assembly, and cable gland base, as shown in Figure 4.

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 4 RJ-45 Cable and Cable Gland Assembly



1. Cable gland base
2. Clamping ring
3. Rubber grommet
4. Gland dome

2. Use a wide flat-blade screwdriver to remove the PoE IN or second Ethernet blanking cap from the T670 AP.
3. Connect the cable to the Ethernet port in the AP.
4. Tighten the cable gland base to 7 N.m (62 in-lb).
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.

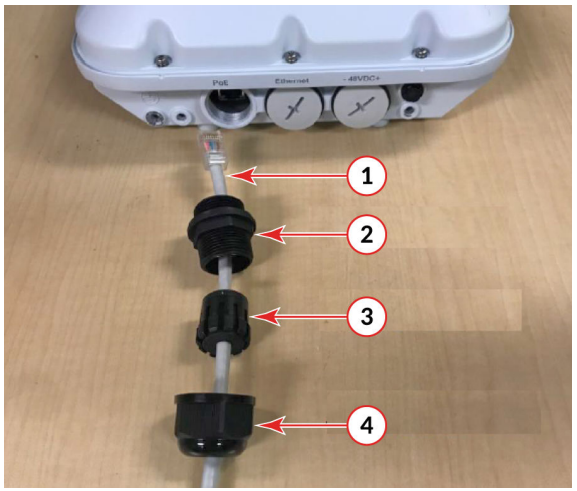
Cable Assembly for Installation

Installing the cable assembly via the PoE port.

1. Use a wide flat-blade screwdriver to remove the PoE port cap.
2. Insert the Ethernet cable through the dome, rubber grommet, and cable gland base, as shown in Figure 5.

NOTE: Choose the grommet that best fits the diameter of the cable.

FIGURE 5 Cable Gland Assembly

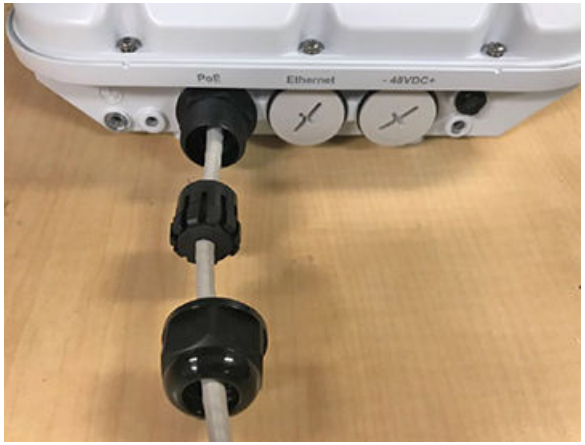


1. Ethernet cable
2. Cable gland base
3. Rubber grommet
4. Cable gland dome

3. Connect the Ethernet cable to the RJ45 connector on the AP board through the PoE port and torque the cable gland base to 7 N·m (5.2 ft-lb or 62 in-lb). See Figure 6

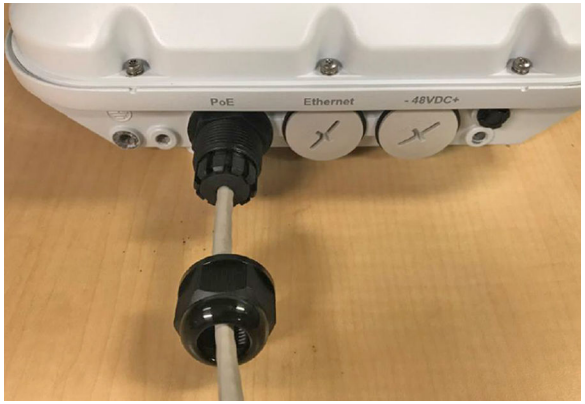
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FIGURE 6 Connecting the Cable Gland Base to the PoE Port



4. Insert the rubber grommet into the cable gland base as shown in Figure 7.

FIGURE 7 Inserting the Rubber Grommet



5. Screw the cable gland dome onto the cable gland base and tighten to 9.5 N.m (7 ft-lb or 84 in-lb), or until the rubber grommet is firmly compressed against the cable as shown in Figure 8.

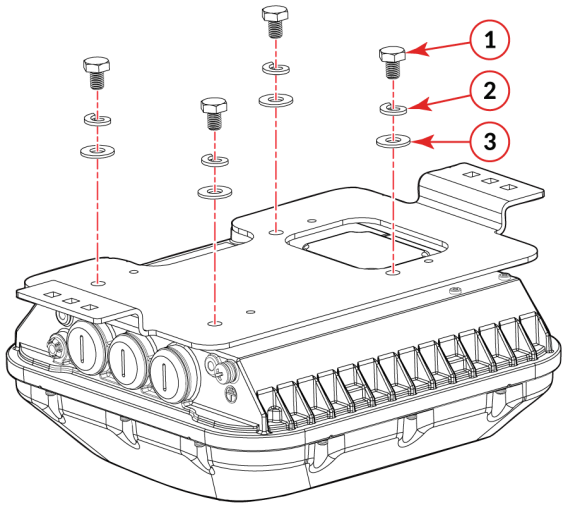
FIGURE 8 Tightening the Cable Gland Dome



Assembling the Strand-Mount Bracket, AP, and the Strand Clamps

1. Assemble the T670 AP and strand-mount bracket with the 6 sets of 0.250-28 hex bolts, split lock washers, and flat washers with a torque of 3.0506 N.m or rounded to 3 N.m (27 in-lb), as shown in Figure 9.

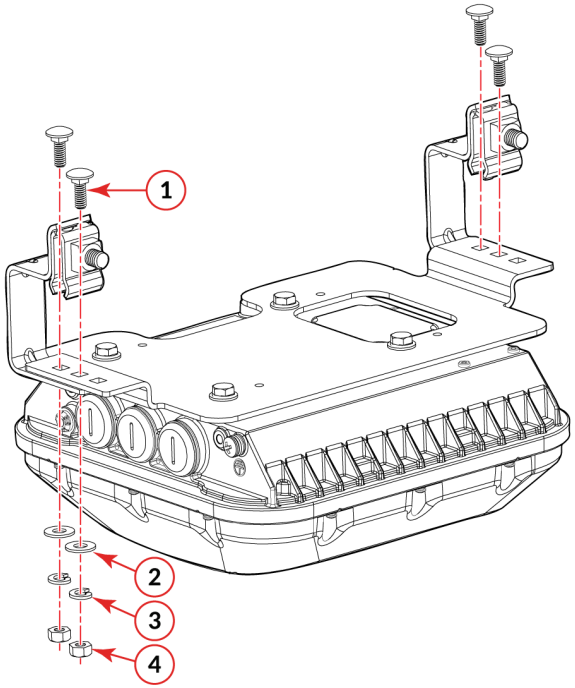
FIGURE 9 Attaching the Strand-Mount Bracket to the T670 AP



1. Hex bolt
2. Split lock washer
3. Flat washer

2. Fasten the strand clamps to both ends of the strand-mount bracket using the 0.250-20 carriage bolts, flat washers, split lock washers, and hex nuts with a torque of 9.5 N.m (7 ft-lb or 84 in-lb), as shown in Figure 10.

FIGURE 10 Attaching the Strand-Mount Bracket Clamps to Both Sides of the Strand-Mount Bracket



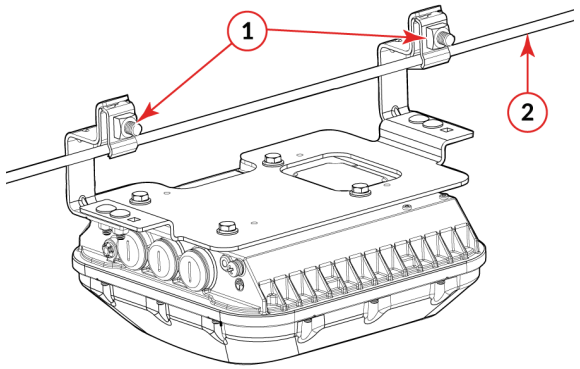
1. 0.250-20 carriage bolt
2. Flat washer
3. Split lock washer
4. Hex nut

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Mounting the AP Assembly on the Strand

1. Loosen the square nuts that fasten the two cable clamps to the strand interface, enough for the strand (cable) to fit into the cable clamps.

FIGURE 11 Mounting the AP Assembly on the Strand



1. Loosened square nuts
2. Strand (cable)

2. Place the cable clamps on the strand (cable).
3. Tighten the two square nuts to approximately 27 N.m (20 ft-lb or 240 in-lb) to secure the mounting.

Earth Grounding the AP

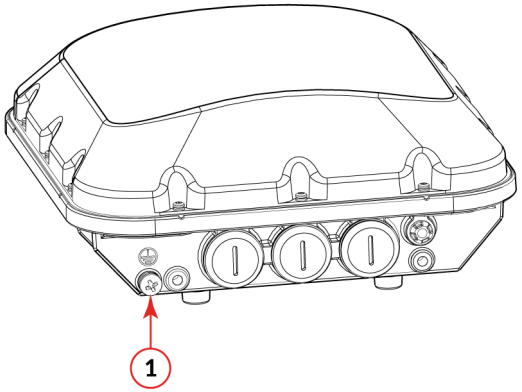
CAUTION! Make sure that earth grounding is available and that it meets local and national electrical codes. For additional lightning protection, use lightning rods and lightning arrestors.

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

Using the factory-supplied ground wire and ground screw/washer set, connect a good earth ground to the AP chassis ground point.

CAUTION! The AP includes one 9 mm stainless steel M6 x1 earth ground screw with split lock and flat washers. Make sure that any replacement screw is no longer than 9 mm. If a screw is longer than 9 mm, it can damage the AP chassis.

FIGURE 12 Connecting Good Earth Ground to AP

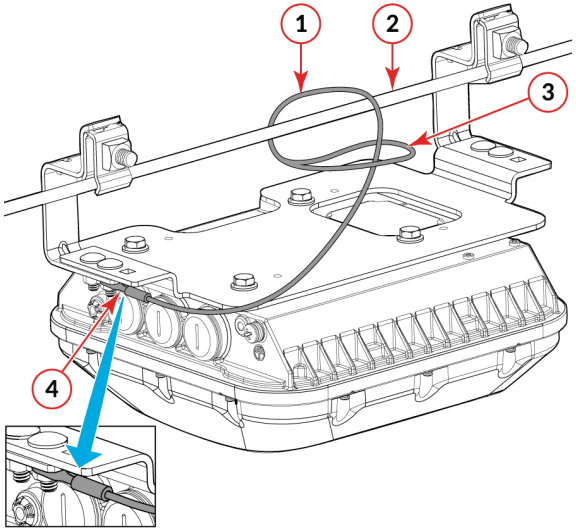


1. Earth ground screw

Installing the Security Cable

1. Loop the RUCKUS-provided security cable (1 in Figure 13) around the strand (cable) (2 in Figure 13) and through the eye on the cable itself (3 in Figure 13).
2. Remove the hex nut, split-lock washer, and flat washer from one of the 0.250-20 carriage bolts securing a strand-mount bracket clamp to the strand-mount bracket.
3. Attach the other eyelet end of the security cable to the AP bracket by inserting the eyelet of the security cable to the 0.250-20 carriage bolt between the strand clamp and the mounting hardware (flat washer, split-lock washer, and hex nut). Refer to 4 in Figure 13.
4. Tighten the bolt and mounting hardware (flat washer, split-lock washer, and hex nut) to 9.5 N.m (7 ft-lb or 84 in-lb).

FIGURE 13 Attaching the Security Cable



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Powering the AP with DC Power

The AP can accommodate two sources of power: PoE (48V) power and 48VDC.

The AP can draw power from the Ethernet input as a Class 5 device, providing a maximum of 35 W to the system. Alternatively, power can be supplied through a customer-provided 48V DC power supply that will connect to a two-pin terminal block. The terminal block is accessible through a water-tight gland on one end of the unit. The terminal block connection has surge and polarity protection to protect against inserting the wrong polarity leads into the terminal block.

NOTE: If both the PoE and DC ports are used, separate cable glands must be used for each port. An additional cable gland (Part Number: 902-0183-0000) can be be purchased.

NOTE: When both the 48V DC and the 48V PoE power are active, the AP will prioritize the 48V DC power.

CAUTION! Ensure that the DC power source does not exceed 48V DC.

1. Ensure the DC cable assembly is securely installed.
2. Connect the power cord to a DC power source.
3. Verify that the LED on the AP is blinking amber (may also be in a green state if a WLAN has been configured).

Troubleshooting

CAUTION! If required, you can reset the AP to its factory default settings by pressing the reset button located inside the PoE IN port. Use the tip of a pen or a 3-mm flat-blade screwdriver to press the reset button.

- Soft reset: Press less than 4 seconds.
- Factory reset: Press more than 5 seconds and less than 15 seconds. The LED will alternate red and green.
- Recovery mode with factory defaults: Press more than 15 seconds. The LED will alternate between red and amber once before the AP reboots.

DO NOT RESET THE AP TO FACTORY DEFAULT SETTINGS UNLESS SO INSTRUCTED. (Doing this resets the AP IP address to 192.168.0.1.)

NOTE: After a reset, you can access the internal 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. The username is **super**, and the password is **sp-admin**.

NOTE: The 6GHz radio option is not allowed for use in China.

For More Information

For more information on how to configure and manage the AP, refer to the User Guide for the RUCKUS network management platform being used to configure and manage your network.

For the product data sheet, refer to https://www.ruckusnetworks.com/products/wireless-access-points/.

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