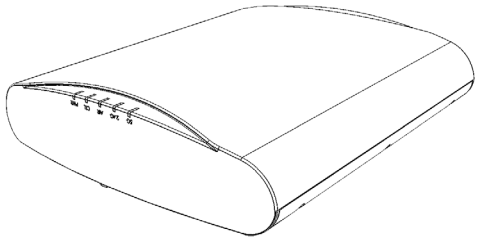
Unleashed R720 Access Point
Quick Setup Guide

This *Quick Setup Guide* provides step-by-step instructions on how to set up your Ruckus Wireless Unleashed R720 Dual Band 802.11ac Multimedia Wi-Fi Access Point (AP). After completing the steps described in this Guide, you will be able to place the R720 at your site and provide wireless network access to users. The rest of this document refers to the Unleashed R720 as an AP.

Figure 1. . Unleashed R720 AP



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

Before You Begin

Before deploying your Ruckus Wireless device, please check the Ruckus Wireless Web site for the latest software and release documentation.

- Release Notes and User Guides are available at http://support.ruckuswireless.com/documents
- Software Upgrades are available at http://support.ruckuswireless.com/software
- Open Source information is available at http://support.ruckuswireless.com/open_source

Package Contents

- Unleashed R720 Access Point
- One T-bar mounting assembly kit, including:
  - One T-bar bracket (2 separate plastic parts)
  - Two each 1.0" L x No. 8 steel Phillips panhead mounting screws and plastic wall anchors
- Regulatory flyer
- Product warranty statement
- Declaration of Conformity, if required
- This *Quick Setup Guide*

Configuring the AP

Continue with the following steps:

- Step 1: Collecting Setup Requirements, Hardware, and Tools
- Step 2: Connecting the AP to Power and Your Network
- Step 3a: Setup Using the Unleashed Mobile App
- Step 3b: Setup Using a Web Browser
- Step 4: Logging Into the AP
- Step 5: Customizing the Wireless Settings
- Step 6: Placing the AP in Your Site
- Step 7: Verifying the Installation

Step 1: Collecting Setup Requirements, Hardware, and Tools

- A computer running Windows 7 (procedures for common operating systems are similar).
- One Cat 5e (or better) Ethernet cable.
- A Ruckus Wireless 48VDC power adapter (sold separately).
  --OR--
  An 802.3at-compliant Power over Ethernet (PoE) switch or PoE injector.
- --OR--
  An 802.3af-compliant Power over Ethernet (PoE) switch or PoE injector

.

Note: If powered by 802.3af PoE, note that the feature set is reduced, as follows:
- 1 x 4 radio chain operation mode
- Second Ethernet port disabled
- USB port disabled

Note: The PoE switch port must run link layer discovery protocol (LLDP) power over Ethernet/MDI (PoE+) in order for the R720 to operate in full-power mode. This may require enabling both LLDP and Power via MDI (dot3) on the switch, if available.

Optional hardware and tools:

- Customer-supplied small padlock with a 3.5mm (0.14") or smaller shackle diameter, used to fasten the AP to the secure mounting bracket or the T-bar bracket.
- Customer-ordered Ruckus Wireless 902-0120-0000 secure mounting bracket kit:
  - If you are mounting the AP on a flat surface using the secure mounting bracket kit, then you need an electric drill with 4.75mm (3/16") drill bits.
  - If you are mounting the AP on a pipe or pole using the secure mounting bracket kit, then you will also need a 38.1mm to 63.5mm (1.5" to 2.5") pipe or pole, two included stainless steel clamps, and hand tools to tighten the clamps.

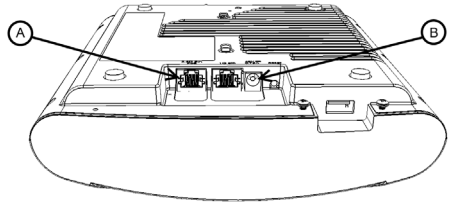
Step 2: Connecting the AP to Power and Your Network

Note: The AP can use link aggregation control protocol (LACP) to bond the two physical Ethernet ports together to form a single logical channel. Refer to the *Configuring Link Aggregation (LACP) Using CLI* section in the *Indoor AP User Guide*.

A After removing your Unleashed AP from its package, connect it to your network switch or router using an Ethernet cable.

B Using an AC adapter (sold separately), connect the AP 12VDC port to a protected power source (B in Figure 2).
Alternatively, connect the 100/1000/2500 Gbps **POE In** port to a PoE injector or switch for both power and network connectivity (A in Figure 2).

Figure 2. . AP ports



C Verify that the PWR LED on the AP is a steady green.

Continue with Step 3: Configure Your Unleashed Network to configure your Unleashed network either using the Unleashed mobile app or via a web browser.

Step 3: Configure Your Unleashed Network

Unleashed can be deployed using either a Mobile App, available for both iOS and Android, or using your PC's web browser. Refer to the relevant section depending on which method you prefer to use:

- Step 3a: Setup Using the Unleashed Mobile App
- Step 3b: Setup Using a Web Browser

Step 3a: Setup Using the Unleashed Mobile App

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

A 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.

B Using your client's Wi-Fi connection settings, select and associate to the "Configure.Me-[xxxxxx]" WLAN.

C Launch the app, and follow the on-screen instructions to configure your Unleashed network(s).

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Figure 3. Unleashed Mobile App for iOS and Android

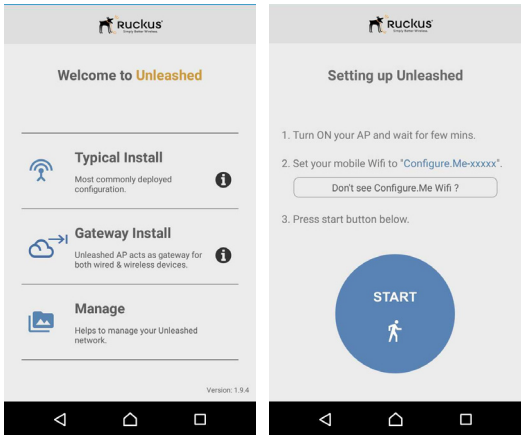
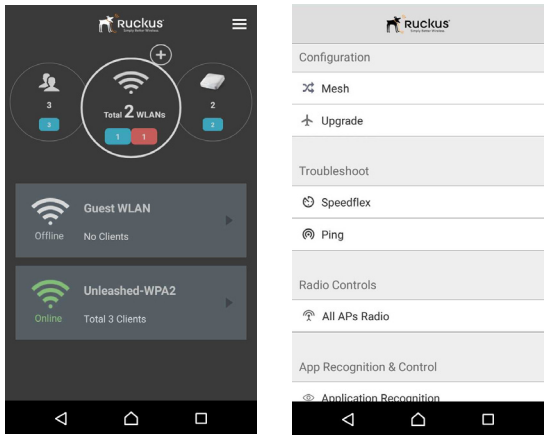


Figure 4. Configuring Unleashed from the Mobile App



Step 3b: Setup Using a Web Browser

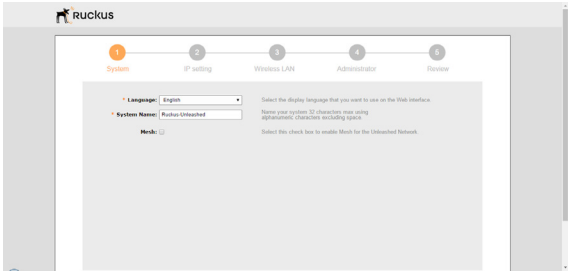
A As soon as the Unleashed AP is powered on and connected to the local network, it boots up and begins broadcasting a temporary unencrypted WLAN named "Configure.Me-[xxxxxx]" from both radios.

B Using your client's Wi-Fi connection settings, select and associate to the "Configure.Me-[xxxxxx]" WLAN.

C Launch a web browser and enter the following into the browser's URL bar: unleashed.ruckuswireless.com, and press **Enter**.

D You will be redirected to the Setup Wizard. Complete the steps in the Setup Wizard and click **Finish**.

Figure 5. Complete the Setup Wizard to set up your Unleashed network



E Once the Setup Wizard is finished, a "Configuring system settings and rebooting" progress screen appears. Wait until the process is complete.

F 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.

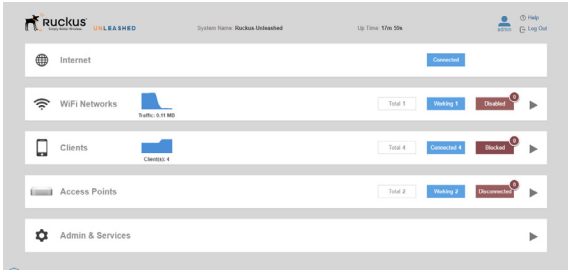
G Enter your **Admin Name** and **Password** to login.

Figure 6. The Login page



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

Figure 7. The Unleashed Dashboard



I Click **OK** to save your changes.

Your changes are put into effect immediately. Continue with Step 4: Customize Your Wireless LANs.

Step 4: Customize Your Wireless LANs

Once the Unleashed Master AP has been initialized, you can fine-tune the settings of your first WLAN (that you created during the setup wizard), and create any additional WLANs needed prior to attaching additional Unleashed member APs. Then, when you deploy additional member APs in whatever order you prefer, they will automatically retrieve all WLAN configuration settings (and any other settings you have configured) from the Unleashed Master AP.

A From the Dashboard, click anywhere in the WiFi Networks section to expand the display of your deployed WLANs.

B On the left side of the screen, select the WLAN box for the WLAN you would like to configure, and click the Edit button to edit the configuration; or click Create to create a new WLAN.

C If you made any changes to the original WLAN, you will be disconnected and will need to reconnect once the changes have been deployed on the AP radios.

Congratulations! Your Unleashed network is now configured and ready for use. You may now proceed to Step 5: Deploy Additional Unleashed Access Points.

Step 5: Deploy Additional Unleashed Access Points

Deploying additional Unleashed member APs is simply a matter of connecting them to the same Layer 2 network (subnet) and providing power. They will discover the Unleashed Master and join automatically. No additional steps are necessary.

(Optional) Mounting Instructions

The AP can be mounted to a drop-ceiling T-bar, flat surface, or a pole using Ruckus Wireless AP mounting kits. Refer to the following sections:

- Mounting on a Drop-Ceiling T-Bar
- Mounting on a Flat Surface
- Mounting on a Flat Surface or Pole Using the Optional Secure Mounting Bracket

Mounting on a Drop-Ceiling T-Bar

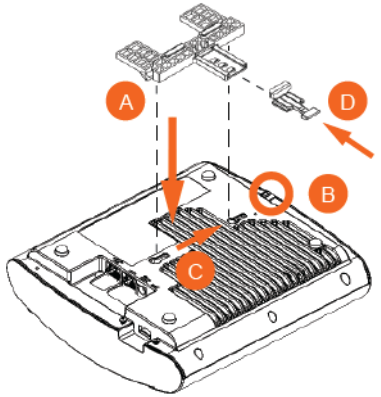
The factory-supplied T-bar mounting assembly kit allows you to attach the AP to recessed and flush drop-ceiling T-bars.

A Position the studs on the bottom of the T-bar bracket (A in Figure 8.) in the keyholes on the AP enclosure.

Note: There is a second set of keyholes that are for optional sideways mounting on a drop-ceiling T-bar. Physical security is not supported when mounting the AP with this set of keyholes.

B Slide the T-bar bracket away from the Ethernet ports on the bottom of the AP until the AP retainer tab (B in Figure 8.) snaps into place, trapping the T-bar bracket studs in the keyholes (C in Figure 8.).

Figure 8. . Attaching the T-bar bracket to the AP



C Insert the locking tab (D in Figure 8.) so it is in the first position on the T-bar bracket (A in Figure 8.).

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D Gently push the ceiling tiles, if present, up and out of the way.

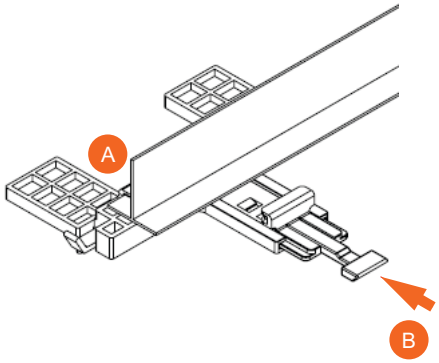
E Position the T-bar bracket so its two clasps grip one edge of the T-bar (A in Figure 9.). Make sure that both clasps are gripping the T-bar.

Note: For clarity, Figure 9. only shows the T-bar bracket and the T-bar, and does not show the AP.

F Hold the AP in place and gently push the locking tab (B in Figure 9.) until its clasp grips the other edge of the T-bar.

Note: Make sure that all three clasps are gripping the T-bar!

Figure 9. . Attaching the T-bar bracket to the T-bar



G (Optional) Attach a customer-supplied padlock through the bracket AP retainer tab (B in Figure 8.) to lock the AP to the T-bar bracket studs.

When you are done, the AP is mounted.

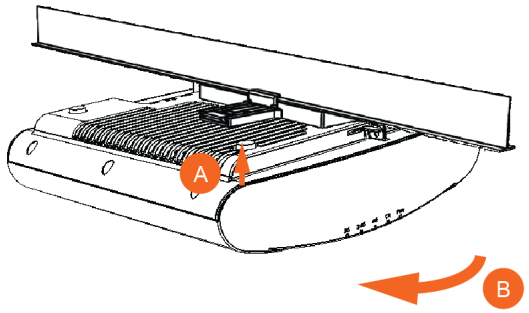
Removing the AP from the T-bar:

A Move the ceiling tiles out of the way, if present.

B Gently lift up the locking tab (A in Figure 10.) by sliding your finger under the tab.

C Rotate the AP- and-T-bar bracket assembly (B in Figure 10.). The AP- and-T-bar bracket assembly comes away from the T-bar.

Figure 10. . Removing the AP and T-bar bracket from the T-bar



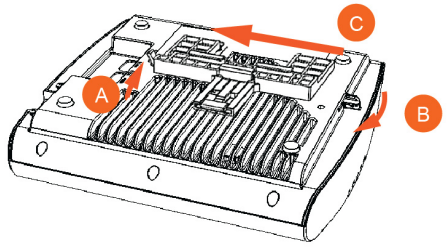
Removing the T-bar bracket from the AP:

A If the AP is locked to the T-bar bracket, then remove the lock.

B Gently lift up the T-bar bracket locking tab (A in Figure 11.) and push the AP retainer tab (B in Figure 11.) to the side at the same time.

C While lifting up the T-bar bracket locking tab and pushing the AP retainer tab to the side, gently push the T-bar bracket (C in Figure 11.) toward the Ethernet ports on the bottom of the AP until the bracket detaches from the AP.

Figure 11. . Removing the T-bar bracket from the AP



Mounting on a Flat Surface

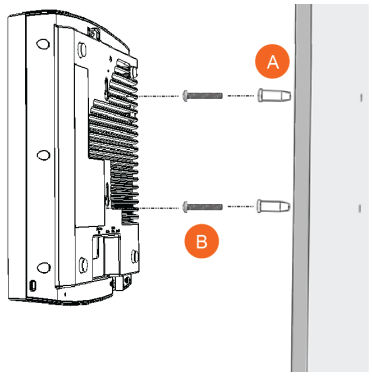
The factory-supplied mounting screws and plastic wall anchors allow you to attach the AP to a wall or ceiling.

A Use the Mounting Template on the last page of this *Quick Setup Guide* to mark the locations for two drill holes on the mounting surface.
Note: *There is a second set of keyholes that are for optional sideways mounting on a flat surface. Physical security is not supported when mounting the AP with this set of keyholes.*

B Use a 4.75mm (3/16") drill bit to drill holes approximately 25mm (1") deep into the mounting surface.

C Insert the factory-supplied anchors (A in Figure 12.) and mounting screws (B in Figure 12.) into the mounting surface, leaving approximately 6 mm (1/4") of the screw heads protruding for the AP enclosure.

Figure 12. . Flat surface mounting



D Place the AP onto the mounting screws so the screw heads enter the keyholes on the AP enclosure, and push the AP down until the AP retainer tab (B in Figure 11.) snaps into place.

E (Optional) Attach a customer-supplied padlock through the integral AP retainer tab (B in Figure 11.) to lock the AP to the mounting screw heads.

Removing the AP from the factory-supplied mounting screws:

- Push sideways on the AP retainer tab (B in Figure 11.), to unlock, then push the AP up to release the AP enclosure from the mounting screws.

Mounting on a Flat Surface or Pole Using the Optional Secure Mounting Bracket

Note: For more complete instructions, refer to the Mounting Guide that comes with the secure mounting bracket.

The customer-ordered Ruckus Wireless secure mounting bracket kit (ordering part number 902-0120-0000) includes a metal mounting bracket and provides greater security when attaching the AP to flat surfaces (walls and ceilings) and to poles.

- If you are mounting the AP on a flat surface, then you will also need an electric drill with a 4.75mm (3/16") drill bit, and the four No. 6 zinc plated screws and plastic wall anchors included with the kit.
- If you are mounting the AP on a truss or pole, then you will also need the two pipe clamps included with the kit.

Continue with the following:

A If you are mounting the AP on a flat surface, then use the secure mounting bracket as a template to mark the locations for four drill holes on the mounting surface. There are four screw holes available on the secure mounting bracket.
Fasten the bracket to the flat surface using four mounting screws and plastic wall anchors and continue with Step C.

B If you are mounting the AP on a pipe or pole, then feed the two stainless steel clamps included with the kit through the slots on the secure mounting bracket. Use common hand tools to tighten the clamps around the pipe or pole.
After the bracket is attached, continue with Step C.

C Insert the two studs on the secure mounting bracket into the keyholes on the bottom of the AP, as shown in Figure 8..
Note: *There is a second set of keyholes that are for optional sideways mounting on a flat surface. Physical security is not supported when mounting the AP with this set of keyholes.*

D Slide the AP toward the Ethernet ports on the AP. The AP has a built-in lock for the secure mounting bracket studs, and snaps into the locked position when the studs are fully in the keyholes.

E (Optional) Attach a customer-supplied padlock through the integral AP retainer tab (B in Figure 11.) to fasten the AP to the secure mounting bracket studs.

Removing the AP from the secure mounting bracket:

A If the AP is locked to the secure mounting bracket, then remove the lock.

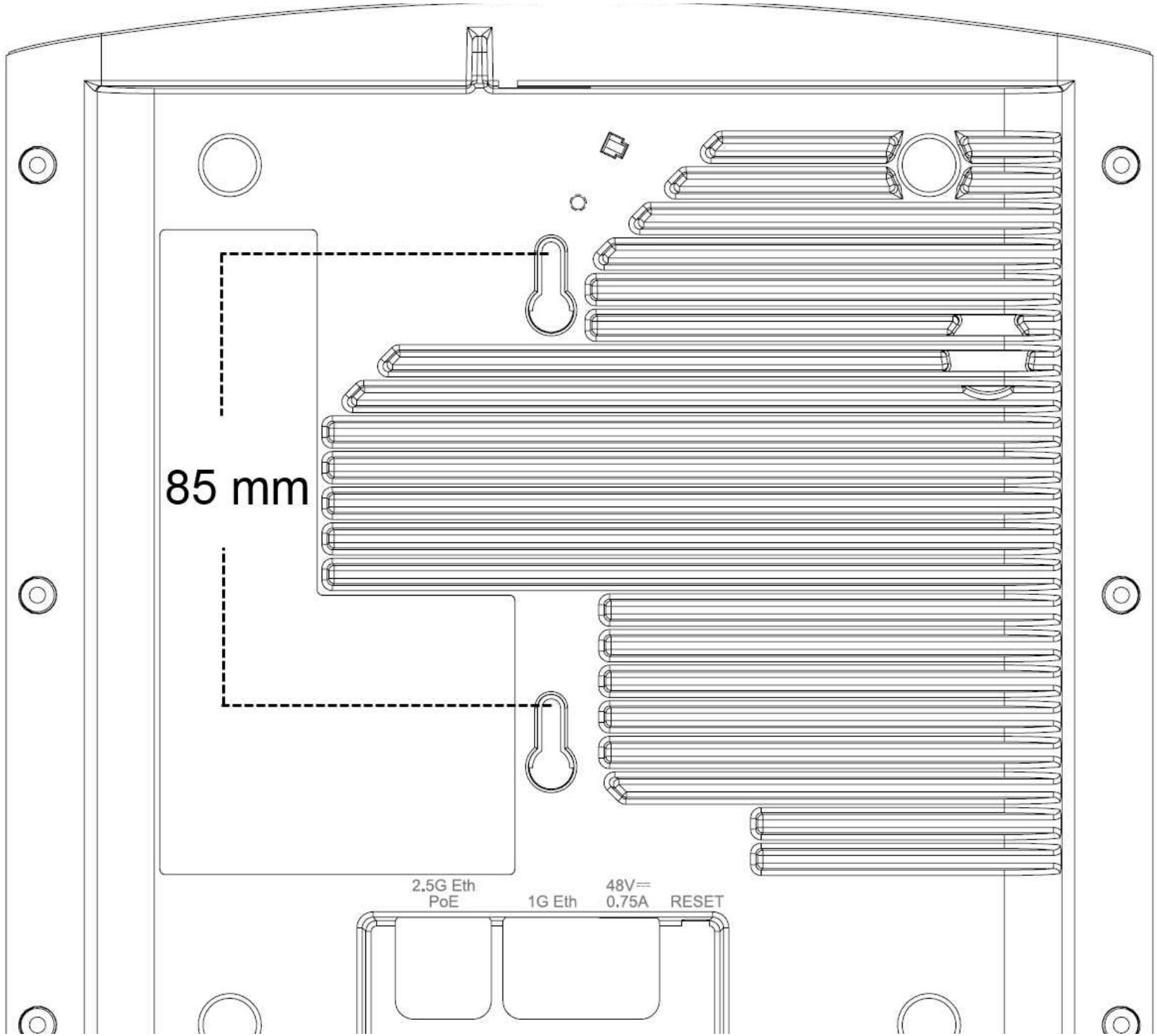
B Gently push and hold the AP retainer tab (B in Figure 11.) to the side to release the secure mounting bracket.

C While holding the AP retainer tab to the side, slide the AP away from the Ethernet ports on the bottom of the AP.

For More Information

For information on how to configure and manage your Unleashed network, refer to the *Ruckus Wireless Unleashed Access Point Online Help*, available by clicking the "Help" button from within the user interface, or from https://docs.ruckuswireless.com.

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