Unleashed H510 Access Point
Quick Setup Guide

This Quick Setup Guide provides step-by-step instructions on how to set up your Ruckus Wireless H510 Dual Band 802.11ac Multimedia Wi-Fi Access Point Wall Switch. After completing the steps described in this guide, you will be able to access the Wi-Fi Wall Switch and begin providing wired and wireless network access to users. The rest of this document refers to the H510 Access Point Wall Switch as the **H510**.

The H510 has many options:

- It can be mounted on a standard USA- or EU-style single-gang wall outlet box.
- It can be powered by a customer-supplied IEEE 802.3af- or 802.3at-compliant PoE switch or injector, or can be powered by an optional customer-ordered DC power adapter.
- It has side cutouts for one or two bypass cables. The mounting bracket has locating hooks to keep the bypass cables aligned with the cutouts when attaching the H510 to the mounting base.
- It can have a low-power (0.5W or less) customer-supplied USB device plugged in. The USB device is very difficult to remove after the H510 is attached to the mounting base.

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
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Before You Begin

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

- User Guides and Release Notes 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://opensource.ruckuswireless.com
- Software License and Limited Warranty are available at http://support.ruckuswireless.com/warranty

Package Contents

- Unleashed H510 Wall Switch Access Point
- Mounting bracket
- Two 6mm M3x0.5 thread Torx flat head machine screws
- Two 1” 6-32 thread Phillips pan head machine screws
- Product warranty statement
- Regulatory flyer
- Declaration of Conformity, if required
- This *Quick Setup Guide*

About Peripheral Devices

The H510 can supply power to USB devices and PoE-powered devices, and the power supplied depends on the PoE power supplied to the H510.

- The USB port is intended for low-power devices such as BLE (Bluetooth low energy) beacons. The maximum power that the USB port can supply is 0.5W.
- The **LAN1+PoE** port is intended for PoE-powered peripheral devices such as IP telephones.

H510 Power Options and Available Power Out for PoE Out and USB

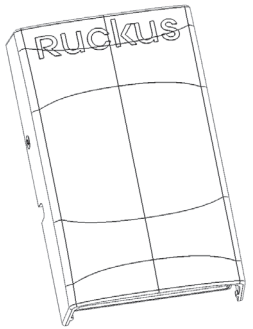
H510 Power Source	Power Available for PoE Out and USB
802.3af PoE	5W total
802.3at PoE	12.95W PoE Out (802.3af Class 3) and 0.5W USB
DC power adapter (sold separately)	12.95W PoE Out (802.3af Class 3) and 0.5W USB

Step 1: Collecting Tools and Setup Requirements

- No. 2 Phillips screwdriver and T10 Torx driver for the mounting bracket screws
- A standard USA- or EU-style single-gang wall outlet box
- One of the following:
  - Customer-supplied IEEE 802.3af/at-compliant PoE switch and customer-supplied Ethernet cable
  - Customer-supplied IEEE 802.3af/at-compliant PoE injector and customer-supplied Ethernet cable
  - Customer-ordered DC power adapter (Ruckus part number 902-0170-XX10, sold separately)
- An Ethernet cable with or without PoE run through the wall from your LAN through the wall outlet box
- A computer with an Ethernet port and a wireless card with customer-supplied Cat 5e or better Ethernet cable
- (optional) One or two separate bypass cables run through the outlet box

Step 2: Connect the AP to Power and Your Network

Figure 1: Front view



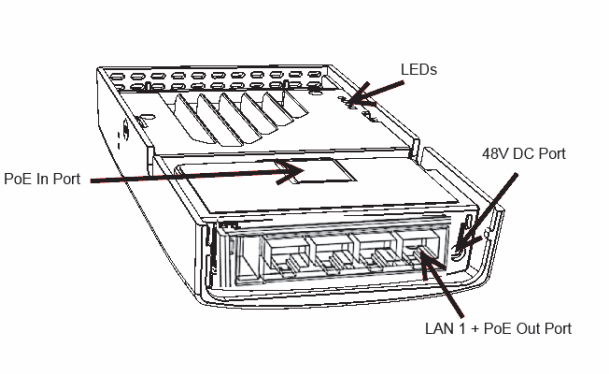
1. After removing your Unleashed AP from its package, connect it to your network switch or router using an Ethernet cable.
2. Using an AC adapter (sold separately), connect the AP 12VDC port to a protected power source.
   - Alternatively, connect the PoE port to a PoE injector or PoE switch for both power and network connections.

Note: If you will be using PoE, then you will need a Cat 5e (or better) Ethernet cable to connect the AP to the PoE injector or switch.

3. Verify that the Power LED on the external enclosure is a steady green.

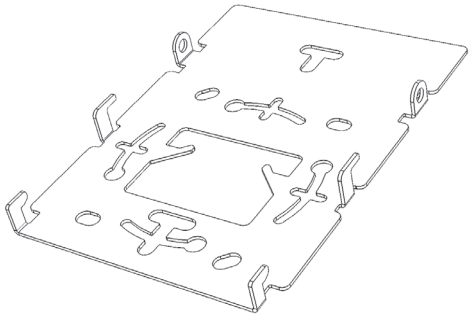
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Figure 2: Rear and bottom view



Step 3: Attaching the Mounting Bracket to an Outlet Box

Figure 3: Mounting bracket



1 Use either the original wall outlet box screws or the factory-supplied 1" Phillips pan head machine screws to attach the H510 mounting bracket to a single-gang wall outlet box.

> **Note:** The H510 mounting bracket has four hooks that face UP. Make sure that the hooks are facing up when attaching the mounting bracket to the wall outlet box.

2 Pull the LAN uplink Ethernet cable for the H510 through the wall outlet box.

3 If you are powering the H510 with a customer-ordered DC power adapter, ensure that the power cable is able to reach the DC in port without obstructing the AP and preventing the AP from mounting flush with the wall bracket.

4 When you have extra bypass cables (usually one or two) that are to bypass the H510, pull them through the wall outlet box.
Note: *The bypass cables can be Ethernet, coax, or any other type of cable, as required.*

Drape the bypass cables across one or both of the upper hooks on either side or both sides of the mounting bracket.

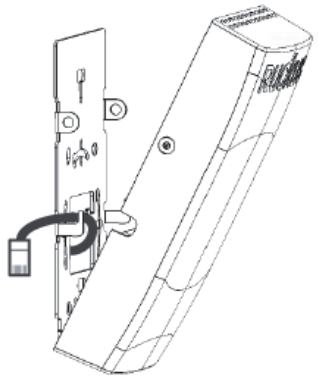
Continue with Step 4: Attaching the H510 to the Mounting Bracket.

Step 4: Attaching the H510 to the Mounting Bracket

1 Make sure that the mounting bracket is securely fastened as described in Step 3: Attaching the Mounting Bracket to an Outlet Box.

2 If you have bypass cables (usually one or two, if any), then make sure that they are draped across one or both of the two upper hooks on the mounting bracket.

Figure 4: Attaching the H510 to the Mounting Bracket



3 If you are installing a customer-supplied USB device (such as a BLE beacon), then plug it securely into the USB jack on the bottom of the H510.

4 Pull the uplink Ethernet cable from your LAN through the outlet box, and plug it into the back of the H510.

5 The mounting bracket has two lower hooks that fit into slots on the bottom of the H510. Rest the bottom of the H510 on those hooks, and then tilt the H510 until it is up against the mounting bracket.

Note that any optional bypass cable(s) should slide smoothly into the slots on the sides of the H510.

6 Use a T10 Torx driver to screw the factory-supplied Torx flat head machine screws through the H510 screw holes into the threaded inserts on the sides of the mounting bracket.

7 After the H510 has powered on, it supplies USB power and PoE Out as described in About Peripheral Devices.

Step 5: 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 5a: Setup Using the Unleashed Mobile App
- Step 5b: Setup Using a Web Browser

Step 5a: Setup Using the Unleashed Mobile App

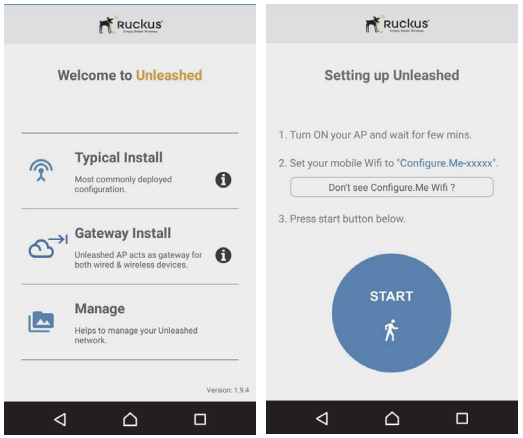
To perform setup using the Unleashed Mobile App, download the iOS or Android app from the app store.

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.

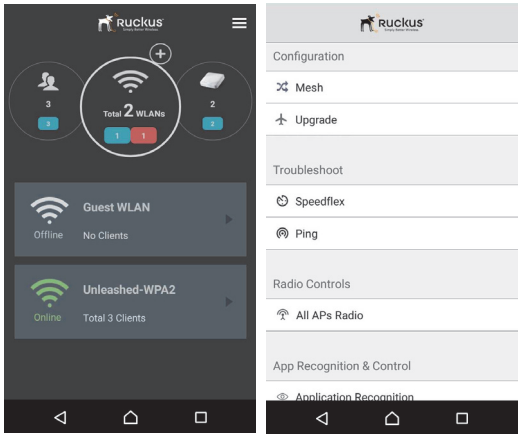
3 Launch the app, and follow the on-screen instructions to configure your Unleashed network(s).

Figure 5. Unleashed Mobile App for iOS and Android



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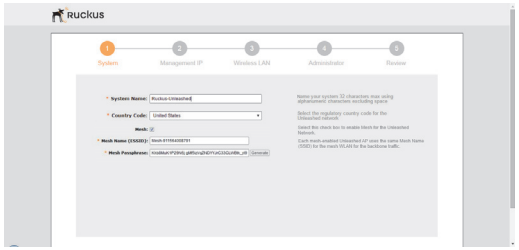
Figure 6. Configuring Unleashed from the Mobile App



Step 5b: Setup Using a Web Browser

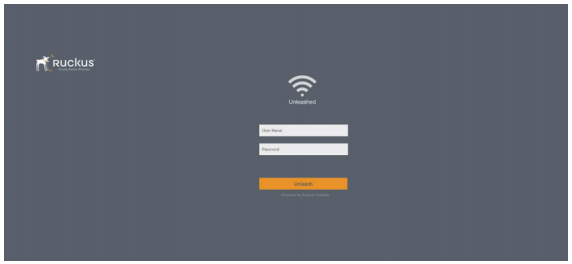
1 As soon as the Unleashed AP is powered on and connected to the local network, it boots up and begins broadcasting a temporary unencrypted WLAN named "Configure.Me-[xxxxxx]" from both radios.
2 Using your client's Wi-Fi connection settings, select and associate to the "Configure.Me-[xxxxxx]" WLAN.
3 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**.

Figure 7. 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 8. The Login page



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

Figure 9. The Unleashed Dashboard



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

Your changes are put into effect immediately. Continue with Step 6: Customize Your Wireless LANs.

Step 6: 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.

1 From the Dashboard, click anywhere in the WiFi Networks section to expand the display of your deployed WLANs.
2 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.
3 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 7: Deploy Additional Unleashed Access Points.

Step 7: 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.

Step 8: Testing the H510 Operation

After a short pause to re-establish the Internet connection, you can test the H510.

1 Using any wireless-enabled computer or mobile device, search for and select the wireless network you previously configured.
2 If you can connect, open a browser and navigate to any public website.
3 Using any wired computer or other device and an Ethernet cable, plug into an Ethernet port on the bottom of the H510.
4 Open a browser and navigate to any public website.
5 Repeat Step 3 and Step 4 for the rest of the Ethernet ports on the bottom of the H510.
6 Verify that all connected PoE-powered devices and USB devices are working correctly.

For More Information

For more information on managing your Unleashed network, refer to the *Ruckus Wireless Unleashed Access Point Online Help*, available from https://docs.ruckuswireless.com/unleashed/.

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