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COMMSCOPE H350 Access Point User Guide

COMMSCOPE®

H350 Access Point
User Guide

This Quick Setup Guide provides step-by-step instructions on how to set up your RUCKUS H350 Dual Band 802.11ax Multimedia Wi-Fi Access Point Wall Switch. After completing the steps described in this guide, you will be able to access the H350 Access Point Wall Switch and begin providing wired and wireless network access to users. The rest of this document refers to the H350 Access Point Wall Switch as the H350.

The H350 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-compliant PoE switch or injector or can be powered by an optional customer-ordered DC power adapter.
- It has side slots for one or two bypass cables. The mounting bracket has to locate hooks to keep the bypass cables aligned with the slots when attaching the H350 to the mounting base.

NOTE: The H350 requires RUCKUS base image 116.0 firmware or later. Managed H350 deployments require SmartZone 6.0 or later, or ZoneDirector 10.5 or later.

Contents

This Guide in Other Languages

- **http://docs.commscope.com/?docs-box.**
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Before You Begin

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

- Release Notes and other user documentation are available at **http://support.ruckuswireless.com/documents.**
- Software upgrades are available at **http://support.ruckuswireless.com/software.**
- Software License and Limited Warranty are available at **http://support.ruckuswireless.com/warrantv.**

Package Contents

- H350 Access Point Wall Switch
- Mounting bracket
- Two 6-mm M3 Torx flat head machine screws
- Two 1-inch 6-32 Phillips pan head machine screws
- Declaration of Conformity/Regulatory flyer

## 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-compliant PoE switch and customer-supplied Ethernet cable
  - Customer-supplied IEEE 802.3af-compliant PoE injector and customer-supplied Ethernet cable
  - Customer-ordered DC power adapter (RUCKUS part number 902-2170-XX00, sold separately)
- An Ethernet cable with or without PoE run through the wall from your LAN through the wall outlet box
- A PC 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: Connecting the PC to the H350
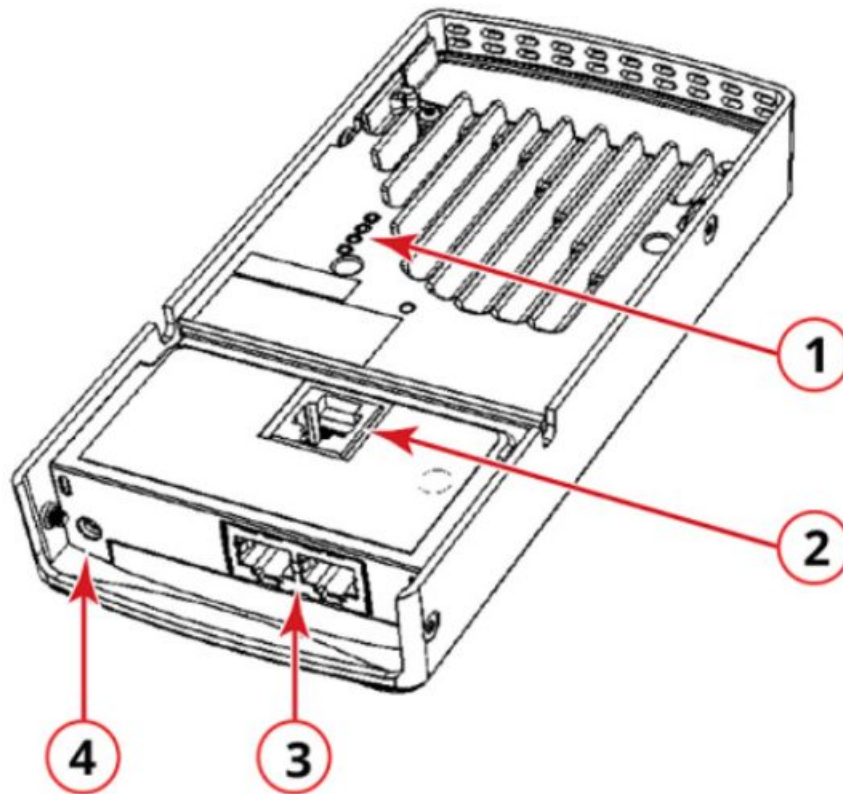
1. Using an Ethernet cable, connect your PC's network port to the PoE In port on the rear of the H350.
   FIGURE 1 H350 Front view
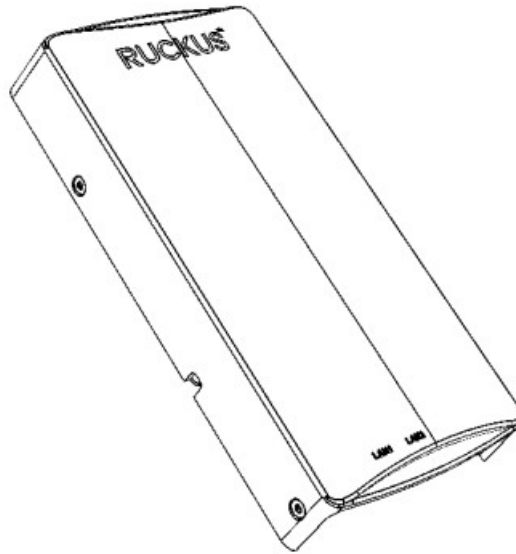
2. Using an AC adapter (sold separately), connect the H350 48V DC port to a protected power source.
3. Verify that the PWR LED on the rear of the enclosure is green. The PWR LED may be solid or blinking.
   FIGURE 2 H350 Rear and Bottom View

Step 3: Preparing Your PC for the H350

NOTE: The following procedures assume Windows is the operating system. Procedures for other operating systems are similar.

1. On your Windows PC, configure your network adapter from the Local Area Connection settings: **Start > Control Panel > Network and Sharing Center > Change Adapter Settings.**
2. Edit the TCP/IPv4 address settings: **Local Area Connections > Properties > Internet Protocol Version 4 TCP/IPv4 > Properties.** The **Internet** Protocol Version **4 (TCP/IPv4) Properties dialog box** is displayed.
   NOTE: Write down all of the currently active settings so you can restore your PC to its current configuration later when this process is complete.
3. Select Use the **following IP address** (if it is not already selected) and make the following entries:
   • **IP address:** 192.168.0.22 (or any available address in the 192.168.0.x network, except 192.168.0.1)
   • **Subnet mask:** 255.255.255.0
   • **Default gateway:** 192.168.0.1 Leave the DNS server fields empty.
4. Click **OK** to save your changes. Your changes are put into effect immediately.

Step 4: Logging In to the H350 Access Point

As specified in Step 3: Preparing Your PC for the H350 on page 2, the H350 should be directly connected to your PC (through the PoE In port on the back of the H350) and powered on, ready for setup.

1. Open a web browser window.
2. Enter https://192.168.0.1 to connect to the H350.
3. Press Enter to initiate the connection. When a security alert dialog box is displayed, click OK/Yes to proceed.
4. When the RUCKUS Wireless Admin login page displays, enter the following:

- **Username:** super
- **Password:** sp-admin

5. Click Login. On your first login, you will be prompted to change the default password.

6. When the **Change Password** dialog box displays, enter the following:

   - **New Password**: Enter a new password.
   - **Confirm Password**: Re-enter the new password.

7. Click **Submit.**

8. Log in using the new password.

Step 5: Customizing the Wireless Settings

TABLE 1 Default H350 Access Point Settings (continued)

Security (Encryption method)	Disabled for each wireless interface
Default Management IP Address	192.168.0.1

1. On the Web interface menu, click **Configuration > Radio 2.4G** or **Configuration > Radio 5G.** The **Configure > Wireless > Common** page is displayed.

2. Verify that the following options are active:

   - **Channel:** SmartSelect
   - **Country Code:** If you are not located in the United States of America, select your current country.

3. Click **Update Settings** if you made any changes.

4. Click any of the wireless number (Wireless LAN Number) tabs at the top of the page.

5. In **Wireless Availability,** click **Enabled.**

6. Delete the text in the **SSID** field, and enter a name for your network that will help your users identify the H350 access point in their wireless network connection applications.

7. Click **Update Settings** to save your changes.

8. Repeat **Step 4** through **Step 7** in this procedure for each wireless number (Wireless LAN Number) interface that you want to enable.

9. Click **Logout** to exit the Web interface.

   (Optional) In a default H350 configuration, the H350 uses a DHCP-assigned IP address. If you anticipate logging in to the H350 regularly to perform monitoring or maintenance after it is in place, you may want to consider switching from DHCP and instead assigning a static IP address to the H350.

   a. On the Web interface menu, click **Configuration > Internet.**

   b. Click the **Static IP** option.

   c. Enter the **IP Address** and **Mask.**

   d. Click **Update Settings** to save your changes.

10. When the RUCKUS Wireless Admin login page is displayed, you can exit your browser.

11. Disconnect the H350 from the PC and the power source, and restore your PC to its original network connection configuration.

NOTE: You can reset AP H350.

- Hard Reset: AP reboots if the reset button is pressed.
- Soft Reset: AP is reset to factory default if the reset button is pressed and held for more than 4 seconds.

FIGURE 3 Resetting AP H350
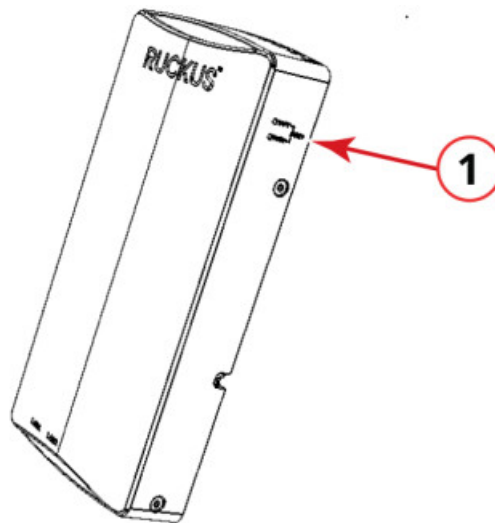
1. Reset button

Step 6: Attaching the Mounting Bracket to a Wall Outlet Box

1. Use either the original wall outlet box screws or the factory-supplied 1-inch Phillips pan head machine screws to attach the H350 mounting bracket to a single-gang wall outlet box.
   NOTE: The H350 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.
   FIGURE 4 H350 Mounting Bracket
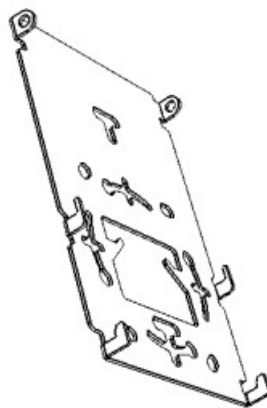
2. Pull the LAN uplink Ethernet cable for the H350 through the wall outlet box.
3. If you are powering the H350 with a customer-ordered DC power adapter, ensure that the power cable is able to reach the 48V DC-in port without obstructing the H350 and preventing the H350 from mounting flush with the wall bracket.
4. When you have extra bypass cables (usually one or two) that are to bypass the H350, pull them through the wall outlet box.
   NOTE: The bypass cables can be Ethernet, coaxial, 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.

Step 7: Attaching the H350 to the Mounting Bracket

1. Make sure that the mounting bracket is securely fastened as described in Step 6: Attaching the Mounting Bracket to a Wall Outlet Box on page 2.
2. If you have bypass cables (usually one or two, if any), make sure that they are draped across one or both of the two upper hooks on the mounting bracket.

   FIGURE 5 Attaching the H350 to the Mounting Bracket
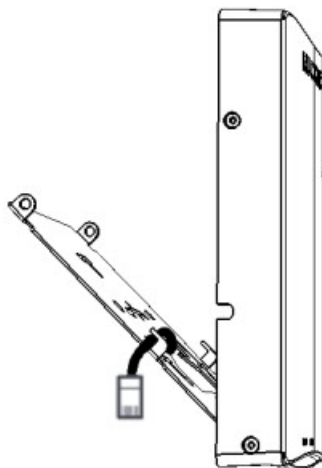
3. Pull the uplink Ethernet cable from your LAN through the outlet box, and plug it into the back of the H350.
4. The mounting bracket has two lower hooks that fit into slots on the bottom of the H350. Rest the bottom of the H350 on the lower hooks, and tilt the 1-1350 until it is up against the mounting bracket.

   NOTE: Any optional bypass cables should slide smoothly into the slots on the sides of the H350.
5. Use a T10 Torx driver to screw the factory-supplied Torx flat head machine screws through the H350 screw holes into the threaded inserts on the sides of the mounting bracket.

Step 8: Testing the H350 Operation

After a short pause to re-establish the Internet connection, you can test the H350.

1. For using any:
   • Wireless-enabled PC or mobile device, search for and select the wireless network you previously configured.
   • Wired PC or other device and an Ethernet cable, plug into an Ethernet port on the bottom of the H350.
2. For connecting the PC or devices, open a browser and navigate to any public website.
3. Verify that the H350 is working correctly. Congratulations! Your H350 is active and ready for use.

For More Information

For information on how to configure and manage the AP, refer to the Ruckus Wireless Indoor Access Point User Guide, available from
http://docs.commscope.com/?docs-box.

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Business Unit – Ruckus Wireless Inc.
350 West Java Dr.

C E EU Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer: Ruckus Wireless, Inc., 350 West Java Drive Sunnyvale, CA 94089 USA
Object of declaration
Product Name: 11350 Access
Point Brand: RUCKUS
Model: H350
The object of the declaration described above is in conformity with the relevant Union harmonization legislation:
Radio Equipment Directive 2014/53/EU and the RoHS directive 2011/65/EU
The product to which this declaration relates is in conformity with the following standards:

Safety
IEC 62368-1:2014 2nd Ed.
EN 62368-1:2014, AC:2017, A11:2017
IEC 60950-1:2005, A1:2009, A2:2013
EN 60950-1: 2006 /A11:2009 /A1:2010/A12:2011 /A2:2013

EMC
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

RF
EN 300 328 V2.2.2
EN 301 893 V2.1.1

EMF
EN 62311:2020
RoHS
EN/IEC 63000:2018

Additional Information
EU-Type examination issued by NB

Signed for and on behalf of Ruckus Wireless Inc.

Signature: *Ivaylo Tankov*
Name: Ivaylo Tankov
Title: Principal Wireless Compliance Engineering
Email: **certifications@commscope.com**
Date: 31st May 2021

Note: Find the complete set of AP documentation for all RUCKUS Wi-Fi products at
http://docs.commscope.com/?docs-box

H350 – Indoor Enterprise AP
Federal Communications Commission Notices
Ruckus Wireless Inc., a CommScope Company
This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications to this equipment that have not been approved by Ruckus Wireless may void the user's authority to operate this equipment.

For Class B Equipment: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Note: The country code selection is for non-US models only and is not available on the US model. Per FCC regulation, Wireless products marketed in the US must be restricted to operate only on spectrum allocated per FCC Rules and Regulations.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

Canada Statement

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit, and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Operation in the 5600-5650 MHz band is not allowed in Canada. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

Radiation Exposure Statement
The device has been found to be compliant with the requirements set forth in CFR 47 Sections 2.1091 and ISED RSS-102 for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Professionally Installed Products
The product is to be installed according to the installation instructions. The Use/Operator does not have access to the device once the device is installed and in use. Provisions for permanent grounding is provided.

1. Installation personnel: This product is designed for specific applications and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.
2. Installation location: The product shall be installed at a location where the radiating antenna can be kept 20 cm from a nearby person in normal operating condition to meet regulatory RF exposure requirement
3. External antenna: Use only the antennas which have been approved by Ruckus Wireless. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of the FCC limit and is prohibited.
4. Installation procedure: Please refer to the user's manual for the detail.
5. Warning: Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in US Rule CFR 47 part 15 section 15.247 & 15.407. The violation of the rule could lead to serious federal penalties.

Products intended to be powered by an external power supply:
Caution –This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked Class 2 or LPS (sub-clause 2.5 of standard EN 60950-1). Available Ruckus power supplies intended for product operation are identified in the product datasheet. The last two digits of the power supply part number represent the country code. For additional applicable power supplies/options, see user instructions and product datasheet.

Medical Statement
Ruckus Wireless Access Points shall only be used in ME systems where the intended EM ENVIRONMENT does NOT rely on the WLAN radio link for BASIC SAFETY or ESSENTIAL PERFORMANCE of the ME SYSTEM.

Australia and New Zealand Statement
This device complies with the ACMA requirements for a WiFi device namely Radiocommunications (Short Range Devices) 2014 and Radiocommunications (Compliance Labelling – Devices) Notice 2014 and the New Zealand Radiocommunications Regulations (General User Radio Licence for Short-Range Devices). The equipment

complies with the ACMA and New Zealand requirements for radiation exposure for a "general user/non-aware user". This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This equipment complies with the Australian and New Zealand safety requirements and should only be used with the specified power adapter carrying an RCM mark and Electrical Approval No.

Brazil Statement

For Brazil, those products are designed for specific application and need to be installed by qualified personnel who has RF and related rule knowledge. Regarding the operation on a range of 5150 MHz to 5350 MHz, the average output power of the equipment must be adjusted to the maximum limit of – 0,48 dBm and for 5470 MHz to 5725 MHz, the average output power of the equipment must be adjusted to the maximum limit of 6,44 dBm.

Nigeria Statement

Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Thailand Statement

This telecommunication equipment conforms to NTC technical requirement

Hong Kong Statement

The 5.15 – 5.35 GHz band shall be restricted to indoor operations only. Obey local regulations when using this product.

Taiwan Statement

This product should not affect the operation of nearby radar systems.

The control, adjustment, and on/off operation of this device does not violate the "Administrative Regulations on low power radio waves radiated devices". Any adjustments to the device should be carried out or be monitored by a specialist who has expertise in radio frequency devices. Replacement of components which may lead to the violation to the regulations is not allowed. Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristics as well as performance to an approved low power radio-frequency devices. The low power radio-frequency device shall not influence aircraft security and interfere with legal communications; if found, the user shall cease operating immediately until no interference is achieved. The said legal communications mean radio communications are operated in compliance with the Telecommunications Act. The low-power radio-frequency devices must not be susceptible to interference from legal communications or ISM radio wave radiated devices.

: H350 Equipment name Type designation (Type)						
U nit	Restricted substances and its chemical symbols					
	Lead (1)b)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chr omium (Cr+6)	Polybrominate d Biphenvls (PB B)	Polybrominated diphenyl ethers (PBDE)
Enclosure – Top	0	0	0	0	0	0
Enclosure – Botto m	0	0	0	0	0	0
PWB	–	0	0	0	0	0
Connector and Re ceptacle	0	0	0	0	0	0

Note 1: "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicates that the percentage content of the restricted substance exceeds the reference percentage value of the present condition.
Note 2: "o" indicates that the percentage content of the restricted substance does not exceed the percentage of a reference value of presence.
Note 3: The "—" indicates that the restricted substance corresponds to the exemption.

European Union Notices and National Restrictions

Maximum output power:

- 2400-2483.5MHz: 19.9dBm EIRP

- 5150-5250MHz: 22.9dBm EIRP

- 5250-5350MHz: 22.9dBm EIRP

- 5470-5725MHz: 29.9 dBm EIRP

- 5725-5875MHz: 22.8dBm EIRP

| AT	FI	IT	PL	BG	RO
BE	FR	LV	PT	IS	TR
CY	DE	LT	SK	LI	HR
CZ	EL	LU	SI	NO	IE
DK	HU	MT	ES	CH	EE
NL	SE	UK(NI)			

 The frequency band 5150 – 5350 MHz is restricted to indoor use.

The frequency band 5725 – 5875 MHz is restricted for use in some EU member states, check local Regulations

Hereby, Ruckus Wireless Inc., declares that the radio equipment type is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: **http://docs.commscope.com/?docs-box**

Hereby, Ruckus Wireless declares that this Radio LAN is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. – **http://docs.commscope.com/?docs-box**

Documents / Resources
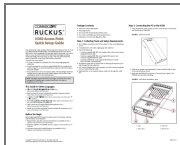
 COMMSCOPE H350 Access Point [pdf] User Guide
H350, S9GH350, H350 Access Point, Access Point