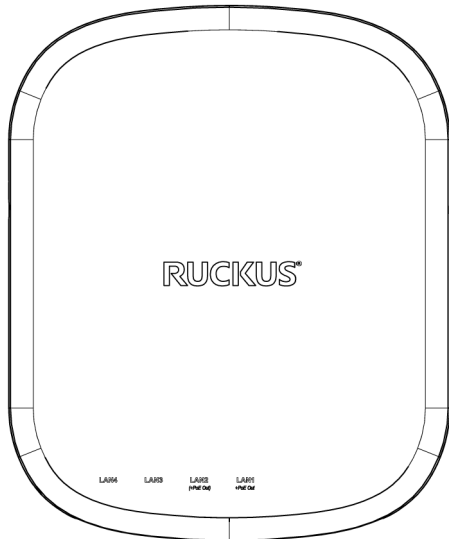




H670 Access Point Quick Setup Guide

This Quick Setup Guide provides step-by-step instructions on how to set up your RUCKUS H670 Tri-Band 802.11be Multimedia Wi-Fi 7 Access Point Wall Switch. After completing the steps described in this guide, you will be able to configure and mount the H670 Access Point Wall Switch and begin providing wired and wireless network access to users. The rest of this document refers to the H670 Access Point Wall Switch as the H670.

FIGURE 1 H670 Front View



An IEEE 802.11be-compliant Power-over-Ethernet (PoE) Out port on the 901-H670-XX00 SKU, or a 48V passive PoE Out port on the 901-H670-XX02 SKU, allows devices such as IP telephones to be powered directly from H670.

The H670 AP supports the following:

- It can be mounted on a standard US- or EU-style single-gang wall outlet box.
- It can be powered by a customer-supplied IEEE 802.3at or IEEE 802.3bt-compliant (Class 6 or higher) switch, a PoE injector (60W), or an optional DC power adapter.
- It has side slots for a bypass cable. The mounting bracket has locating hooks to keep the bypass cable aligned with the slots when attaching the H670 to the mounting bracket.

NOTE: The H670 requires RUCKUS Standalone AP software version 122.1.1 or later. Managed H670 deployments require SmartZone 7.1.1 or later.

About Peripheral Devices

The H670 can supply power to PoE-powered devices. The power supplied depends on the PoE power supplied to the H670. The two LAN ports labeled as PoE Out are intended for PoE-powered peripheral devices such as IP telephones.

TABLE 1 H670 Power Options and Available Power for PoE Out

H670 Power Source	Power Availability for PoE Out Ports
802.3af	Disabled
802.3at	Disabled
802.3bt6, PoH, uPoE, or DC Power	Port 0 (LAN 1) configured in 802.3at mode (25.5W@PD)
	Ports 0 and 1 (LAN 1 and LAN 2) configured in 802.3af mode (12.95W@PD)

This Guide in Other Languages

- 请从以下网站获得该指南的简体中文版 <http://docs.commscope.com/?docs-box>.
- Vous trouverez la version française de ce guide à l'adresse suivante <http://docs.commscope.com/?docs-box>.
- このガイドの日本語版は <http://docs.commscope.com/?docs-box> でご覧ください。
- 이 가이드의 한국어 버전은 웹 사이트 (<http://docs.commscope.com/?docs-box>) 에서 확인하시기 바랍니다.
- Veja a versão em português (Brasil) deste guia em <http://docs.commscope.com/?docs-box>
- Puede ver la versión en español (América Latina) de esta guía en <http://docs.commscope.com/?docs-box>

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 information are available at https://support.ruckuswireless.com/programs-warranty_registration.

Before deploying your RUCKUS Access Point, verify that all items listed in **Package Contents** are included in the package. If any item is damaged or missing, notify your authorized RUCKUS sales representative. Also, make sure that you have the required hardware and tools.

Package Contents

- H670 Access Point
- Mounting bracket
- Two 6-32 x 1-in. Phillips pan-head machine screws
- Declaration of Conformity/Regulatory flyer

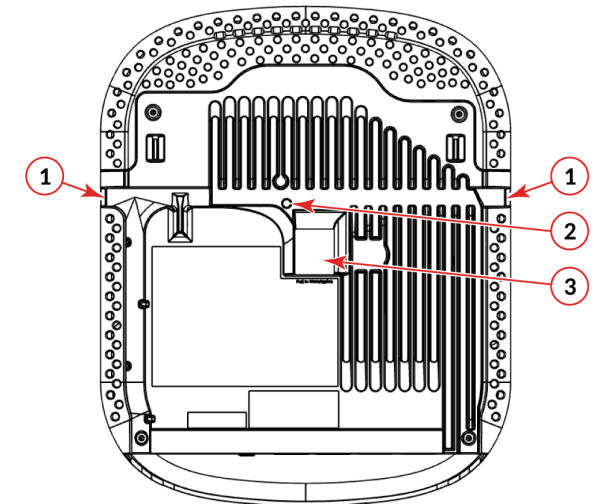
Required Hardware and Tools

- No. 2 Phillips screwdriver
- One of the following:
 - Customer-supplied IEEE 802.3at/bt-compliant PoE switch and customer-supplied Ethernet cable
 - Customer-supplied IEEE 802.3at/bt6-compliant (60W) PoE injector and customer-supplied Ethernet cable (up to 10G Ethernet). The WAN Uplink for the H670 is 5G Ethernet.
 - Customer-ordered DC power adapter (RUCKUS part number 902-2171-XX00, sold separately)
- An Ethernet cable
- 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 wall outlet box

Step 1: Connecting the PC to the H670

1. Using an Ethernet cable, connect your PC's network port to the PoE In port on the rear of the H670. Refer to [Figure 2](#)

FIGURE 2 H670 Rear and bottom view

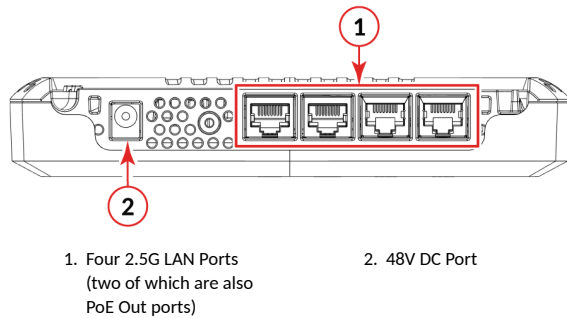


1. Cable Channel

2. System LED

3. PoE In Port

FIGURE 3 H670 Port-side View



NOTE: The AP must be powered with:

- 802.3at power or higher (802.3bt6, DC) to enable all four 2.5G LAN ports.
- At least 802.3bt6 or DC to configure and enable the two PSE (PoE Out) ports

2. Using an AC adapter (sold separately), connect the H670 48V DC port to a protected power source.
3. Verify that the PWR LED on the rear of the enclosure is solid green.

Step 2: Preparing Your PC for H670 Configuration

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 Internet > > Network and Sharing Center > Change Adapter Settings**. Select the Ethernet connection associated with the H670 AP.
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 then 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 3: Logging In to the H670 Access Point

As specified in [Step 2: Preparing Your PC for H670 Configuration](#) on page 2, the H670 should be directly connected to your PC (through the PoE In port on the back of the H670) and powered on, ready for setup.

1. Open a web browser window.
2. Enter `https://192.168.0.1` to connect to the H670.
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 4: Customizing the Wireless Settings

TABLE 2 Default H670 Access Point Settings

Network Names (SSIDs)	Wireless1-Wireless8 (2.4 GHz radio) Wireless17-Wireless23 (6 GHz radio)
Security (Encryption method)	Disabled for each wireless interface
Default Management IP Address	192.168.0.1

1. Enable the web-interface by entering one of the following CLI command:
 - **set http enable** (to enable the non-secure web interface)
 - **set https enable** (to enable the secure web interface)

NOTE: The GUI is disabled by default on Wi-Fi 7 APs running Solo firmware version confirm firmware 122.1.1 or later.

2. On the Web interface menu, click **Configuration > Radio 2.4G** or **Configuration > Radio 5G** or **Configuration > Radio 6G**. The **Configure > Wireless > Common** page is displayed.
3. 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.
4. Click **Update Settings** if you made any changes.
5. Click any of the wireless number (Wireless LAN Number) tabs at the top of the page.
6. In **Wireless Availability**, click **Enabled**.
7. Delete the text in the **SSID** field, and enter a name for your network that will help your users identify the H670 access point in their wireless network connection applications.
8. Click **Update Settings** to save your changes.
9. Set the encryption.

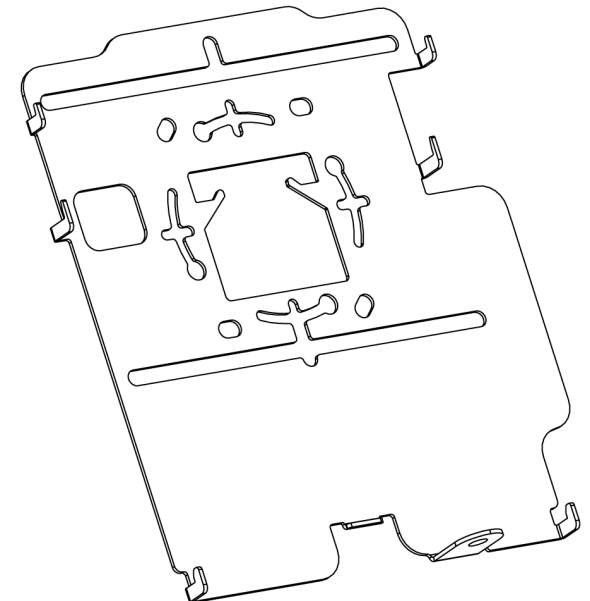
10. Repeat [Step 5](#) through [Step 8](#) in this procedure for each wireless number (Wireless LAN Number) interface that you want to enable.
11. Click **Logout** to exit the Web interface.
(Optional): In a default H670 configuration, the H670 uses a DHCP-assigned IP address.
If you anticipate logging in to the H670 regularly to perform monitoring or maintenance after it is installed, you may want to consider switching from DHCP and instead assigning a static IP address to the H670.
 - 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.
12. When the **RUCKUS Wireless Admin login** page is displayed, you can exit your browser.
13. Disconnect the H670 from the PC and the power source, and restore your PC to its original network connection configuration.

Step 5: Attaching the Mounting Bracket to a Wall Outlet Box

1. Use either the original wall outlet box screws or the factory-supplied 1-in. Phillips pan-head machine screws to attach the H670 mounting bracket to a single-gang wall outlet box.

NOTE: The H670 mounting bracket has six hooks. Make sure that the hooks are facing up when attaching the mounting bracket to the wall outlet box.

FIGURE 4 H670 Mounting Bracket



2. Pull the LAN uplink Ethernet cable for the H670 through the wall outlet box.
3. While powering the H670 with a customer-ordered 48V DC power adapter, ensure that the power cable is able to reach the 48V DC input port without obstructing the H670 and preventing the H670 from mounting flush with the wall bracket.
4. When you have extra bypass cable, pull them through the wall outlet box.

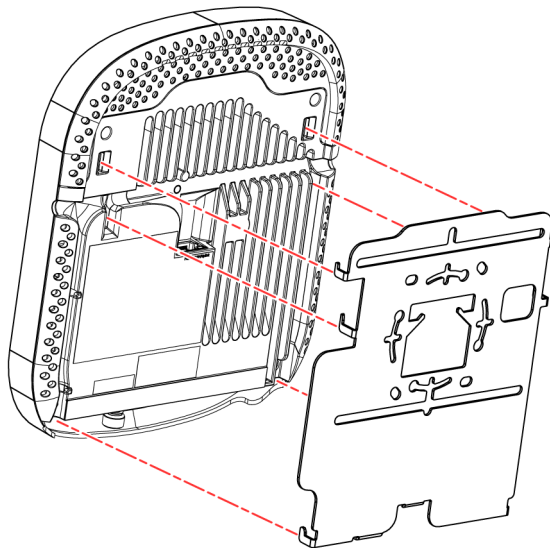
NOTE: The maximum size of the cable that can be routed through the cable channel is CAT6.

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

Step 6: Attaching the H670 to the Mounting Bracket

1. Make sure that the mounting bracket is securely fastened as described in [Step 5: Attaching the Mounting Bracket to a Wall Outlet Box](#) on page 2.
2. If you have a bypass cable, make sure that they are draped across one or both of the two middle hooks on the mounting bracket.

FIGURE 5 Attaching the H670 to the Mounting Bracket



3. Pull the PoE In or uplink port Ethernet cable from your LAN through the outlet box, and plug it into the back of the H670, as shown in [Figure 3](#) on page 2.
4. Align the slots on the AP to match the hooks on the mounting bracket.
5. Affix the AP onto the mounting bracket.
6. Once the slots on the AP and the hooks on the mounting bracket are engaged, slide the AP down until it locks into place.

NOTE: Any optional bypass cable should slide smoothly into the slots on the sides of the H670.

7. Tighten the captive screw to 4 in-lbs.
8. Fasten the screw using a number 2 phillips screwdriver.
9. After the H670 has powered on, the PoE Out may be disabled. Ports must remain disabled until the software verifies that the available power source is sufficient to support the selected PSEout configuration.

Step 7: Testing the H670 Operation

After a short pause to re-establish the Internet connection, you can test the H670.

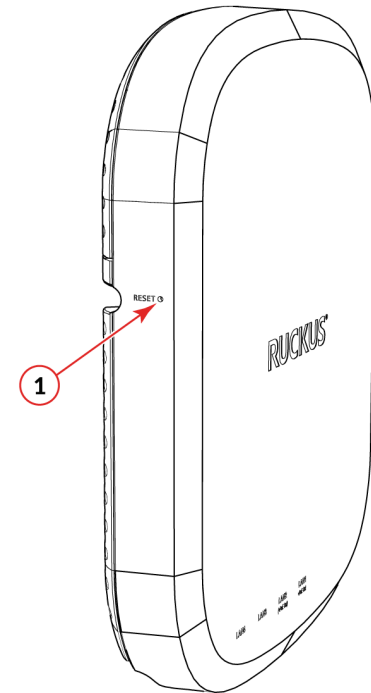
1. Using any wireless-enabled PC or mobile device, search for and select the wireless network you previously configured.
2. If you can connect, open a browser and navigate to any public website.
3. Using any wired PC or other device and an Ethernet cable, plug into an Ethernet port on the bottom of the H670.
4. Open a browser and navigate to any public website.
5. Repeat [Step 3](#) and [Step 4](#) in this procedure for the other Ethernet ports on the bottom of the H670.
6. Verify that all connected PoE-powered devices are working correctly. Congratulations! Your H670 is active and ready for use.

Resetting the AP

You can reset the AP to factory default settings.

1. Locate the recessed Reset button on the side of the H670.

FIGURE 6 Resetting the AP



1. Reset button

2. Using a rigid, thin wire (such as a straightened paperclip), press the Reset button.
 - Soft Reset: AP reboots if the button is pressed.
 - Hard Reset: AP is reset to factory default if the button is pressed and held for more than 4 seconds.

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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