



COMMSCOPE Ruckus Unleashed R650p Access Point User Guide

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Unleashed R650p Access Point Quick Setup Guide

This Quick Setup Guide provides step-by-step instructions on how to set up your Ruckus Unleashed R650p access point. After completing the steps in this guide, you will be able to place the access point (AP) at your site and provide wireless network access to users. For detailed information on configuration and administration of your Ruckus Unleashed R650p AP, refer to the Unleashed Online Help, available from <https://docs.commscope.com/bundle/unleashed-200.9-onlinehelp>.

FIGURE 1 Unleashed R650p – Top



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](http://support.ruckuswireless.com/documents).
- Software upgrades are available at <http://support.ruckuswireless.com/ software>.

Package Contents

A complete Unleashed R650p installation package includes all of the items listed below:

- Unleashed R650p Access Point
- One wall-mount anchor kit, including two 1" No. 8 steel pan head Phillips sheet metal screws and wall-mount anchors.
- One external T-bar bracket (two unassembled parts)
- Service Level Agreement/Limited Warranty Statement

- Declaration of Conformity
- Regulatory Statement
- This Quick Setup Guide

Unleashed Network Configuration

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).

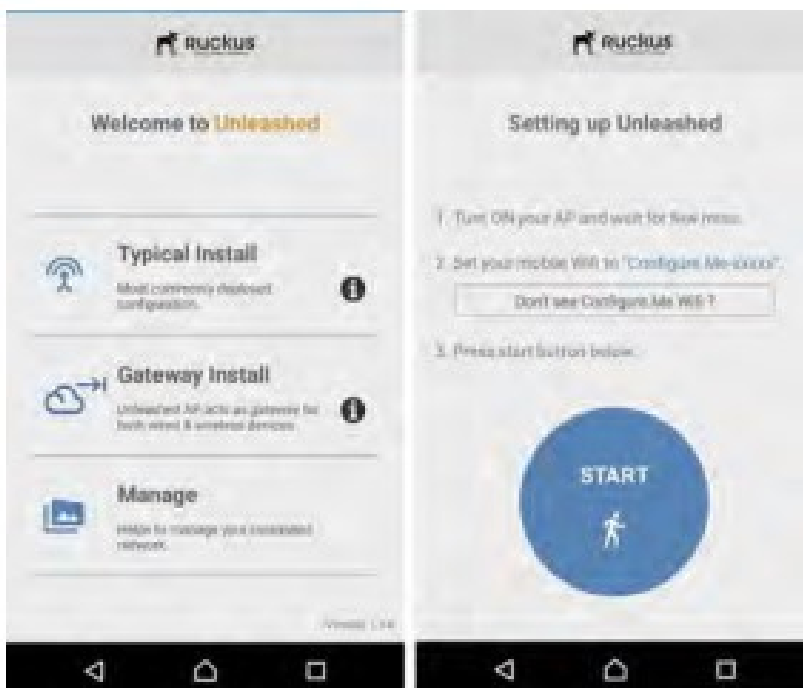


FIGURE 2 Unleashed Mobile App for iOS and Android



FIGURE 3 *Configuring Unleashed from the Mobile App*

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.

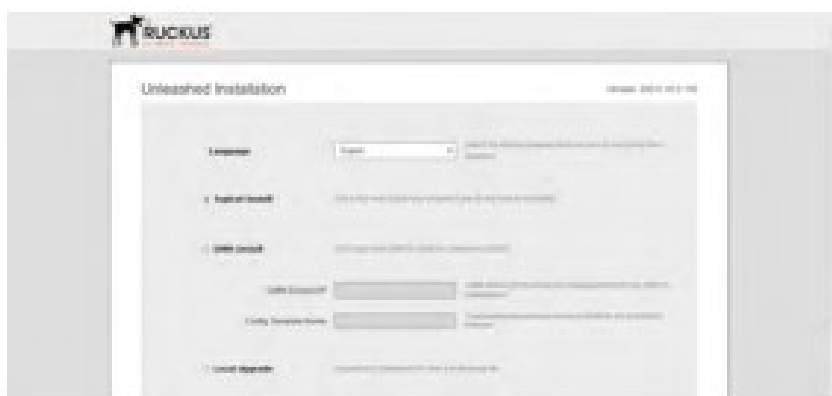


FIGURE 4 *Complete the Setup Wizard to set up your Unleashed network*

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.



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

Mounting Instructions

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.

1. Position the studs on the bottom of the T-bar bracket (1 in Figure 3) in the keyholes on the AP enclosure.
2. Slide the T-bar bracket away from the Ethernet ports on the bottom of the AP until the AP retainer tab snaps into place, trapping the T-bar bracket studs in the keyholes (2 in Figure 3).

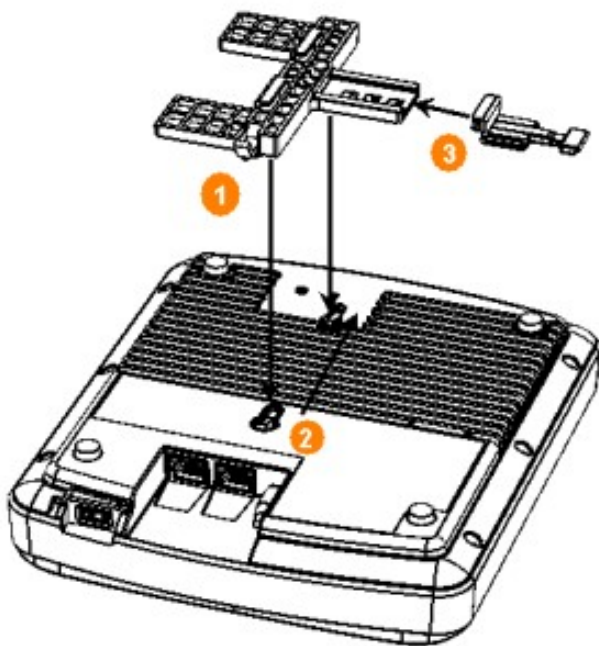


FIGURE 6 Attaching the T-bar Bracket to the AP

3. Insert the locking tab (3 in Figure 3) so it is in the first position on the T-bar bracket (1 Figure 3).
4. Gently push the ceiling tiles, if present, up and out of the way.
5. Position the T-bar bracket so its two clasps grip one edge of the T-bar (1 in Figure 4). Make sure that both clasps are gripping the T-bar.
6. Hold the AP in place and gently push the locking tab (2 in Figure 4) until its clasp grips the other edge of the T-bar. Make sure that all three clasps are gripping the T-bar.

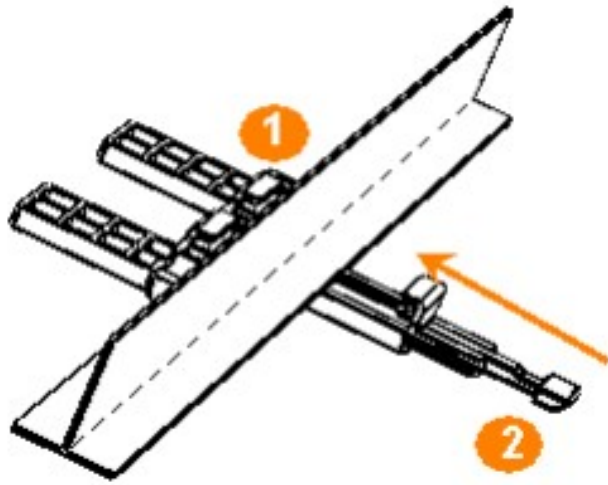


FIGURE 7 Attaching the T-bar Bracket to the T-bar

Mounting on a Flat Surface

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

1. 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.
2. Use a 4.75-mm (3/16-in.) drill bit to drill holes approximately 25 mm (1 inch) deep into the mounting surface.
3. Insert the factory-supplied anchors (1 in Figure 5) and mounting screws (2 in Figure 5) into the mounting surface, leaving approximately 6 mm (1/4 inch) of the screw heads protruding for the AP enclosure.

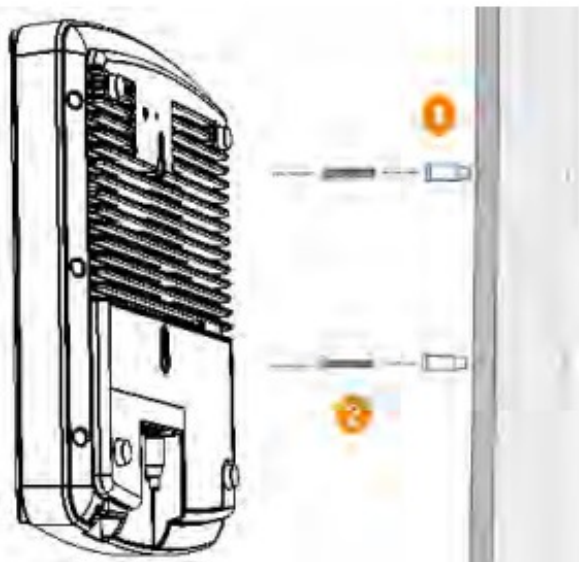
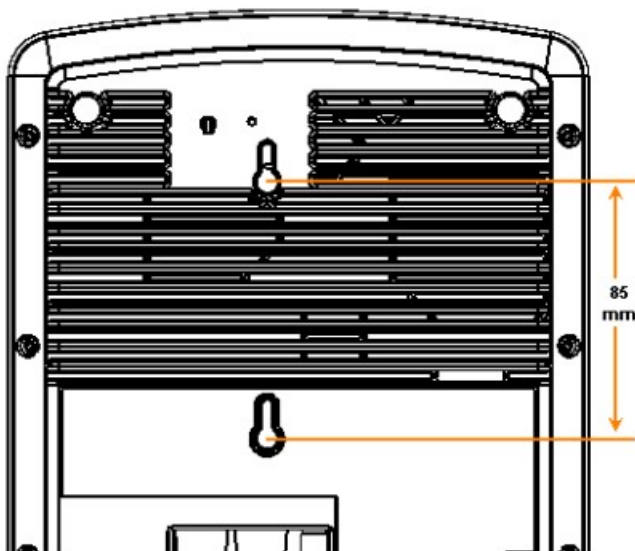


FIGURE 8 Flat Surface Mounting

4. 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 snaps into place.

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R650p Indoor Enterprise AP Ruckus Wireless Inc., a CommScope Company

Federal Communications Commission Notices

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 colocated 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 US model. Per FCC regulation, Wireless product 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 minimum distance 20 cm between the radiator & your body.

Canada Statement

Under ISSED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISSED. 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. aximal

This device complies with ISSED 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 that these radars could cause interference and/or damage to LE-LAN devices.

Radiation Exposure Statement

The device has been found to be compliant to the requirements set forth in CFR 47 Sections 2.1091 and ISSED 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 personal: This product is designed for specific application and needs to be installed by a qualified personal 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 nearby person in normal operation 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 FCC limit and is prohibited.
4. US Rule CFR 47 part 15 section 15.247 & 15.407. The violation of the rule could lead to serious federal penalty.
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 penalty.

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 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 expo – 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 a RCM mark and Electrical Approval No.

Brazil Statement

For Brazil, those products are designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. Regarding the operation on 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.



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: 27.9 dBm EIRP

5725-5875MHz: 22.8dBm EIRP

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

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R650P, S9GR650P, Ruckus Unleashed R650p Access Point, Ruckus, Unleashed R650p Access Point