
RP324

WiFi Extender



Quick Start Guide

P/N: 957DA501E5

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RP324

Package Contents

The following items are included in the box:

1. RP324



2. Quick Start Guide



If any of these items are damaged or missing, please contact your service provider immediately.

Chapter 1

Introduction

1

This chapter provides details of the RP324's features, components, and capabilities.

Overview

The RP324 is designed to enhance the connectivity between your WiFi router and wireless client device while increasing the coverage of your existing WiFi network. With its simple setup, this high-speed 802.11ac extender works seamlessly with most routers.

Features

- **Easy Setup:** WPS button setup or web browser configuration

Wireless Features

- **Supports 11ac WiFi:** 802.11ac is backwards compatible with 802.11a/b/g/n
- **WPS Support:** WPS (WiFi Protected Setup) simplifies the process of connecting any device to the wireless network by using the push button on the device
- **Security Support:** WPA2, WPA, and WPA+WPA2 mixed mode are supported for advanced encryption of all WiFi data

Chapter 2 Basic Setup

This chapter provides details on how to setup the RP324.

2

Front Panel



Figure 1: Front Panel

1. Power LED (Green)	Solid Green - Power on Off - No power Blinking - The Power LED will blink during start up
2. WiFi LED (Green/Blue/Red)	Solid Green - Backhaul connection is available and the signal strength is good Off - Backhaul connection is not established Solid Red - Backhaul connection is available and the signal strength is poor. Note: If the <i>WiFi</i> LED is red, you need to install the extender in a location closer to your router. Slow Blinking Blue - WPS is pairing. When WPS button is pressed, the LED will blink for 2 minutes Solid Blue - WPS failure. The LED will stay on for 10 seconds and then turn off. Fast Blinking Blue - WPS success. The LED will blink quickly for 10 seconds, then turn off.
3. LAN LED (Green)	Solid Green - Ethernet cable connected Off - Ethernet cable not connected

Side Panel



Figure 2: Side Panel

1. LAN port	Connect to a PC or other Ethernet device using a standard Ethernet cable.
2. Reset Button	This button is recessed; a pin or paper clip can be used to press it. The button can be used while the unit is powered and the power LED is Green. • Reset to manufacturer default values and reboot. When pressed and held over 5 seconds, the settings of the RP324 will be set to their default values. • Reboot. When pressed and held over 2 seconds and less than 5 seconds, the RP324 will reboot.
3. WPS Button	Push the WPS button on the device and on your other WiFi device to perform WPS function that easily creates an encryption-secured WiFi connection automatically. • Router Connection. When pressed and held over 2 seconds, the RP324 will enter WPS mode to connect to a WiFi router. • Client Connection. After connected to a WiFi router, the RP324 will perform WPS with the client devices when pressed and held more than 2 seconds.

Setup the RP324

The RP324 extends the range of your existing WiFi network without the need for running cables. During the installation process, the RP324 connects to your current WiFi router over WiFi to extend your home network coverage.

You can set up your RP324 using WPS or your web browser.

Setup Using WPS



Step 1: Make sure the WiFi router is on and working properly.

Step 2: Plug the RP324 into a wall outlet near the WiFi router during setup.

Step 3: Wait for the *Power* LED to become solid green, the RP324 is now ready for setup.

Step 4: Push the *WPS* button on the WiFi router to enable WPS mode. The LED on the router will blink and WPS will stay active for 2 minutes.

Step 5: Push and hold the *WPS* button on the RP324 for more than 2 seconds. The *WPS* LED on the device will start blinking for 2 minutes. The RP324 will automatically connect to the WiFi router.

Step 6: The connection between the RP324 and WiFi router is complete after the *WiFi* LED turns solid green and remains on.

Step 7: Now move the RP324 to a suitable location. Place the extender 1 or 2 rooms away from your existing WiFi router. Check the *WiFi* LED color on the RP324 and make sure it's not solid red.



If the *WiFi* LED is solid red, move the RP324 closer to the WiFi router.

Step 8: After setup, the RP324 extends the network using the same SSID and password from your current WiFi router.

Setup Using Web Browser



Step 1: Make sure the WiFi router is on and working properly.

Step 2: Plug the RP324 into a wall outlet near the WiFi router during setup.

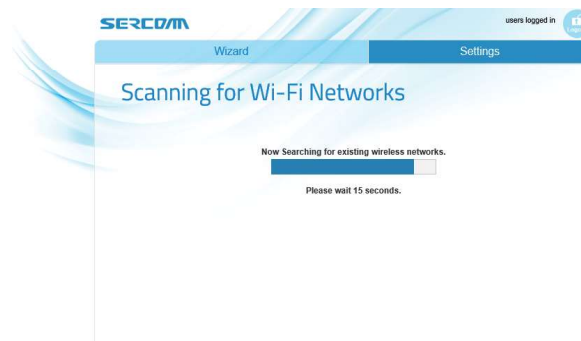
Step 3: Wait for the *Power* LED to become solid green, the RP324 is now ready for setup.

Step 4: Connect an Ethernet cable to the RP324 and your PC.

Step 5: Launch the browser and enter <http://192.168.0.1> in the Address box.

Step 6: You will be prompted for a username and password. Use the default values, `admin` for the username, and `WPS PIN` for the password.

Step 7: Choose the *Wizard* page, the RP324 will start to search for existing WiFi 5GHz networks. If RP324 doesn't connect to a WiFi router, it will redirect to *Wizard* page when user logs in next time.



Step 8: Select your desired SSID for the RP324 to connect. A 5GHz channel is recommended to be used for this connection (Ch. 36-165). Click *Next*.

SERCOM users logged in 13

Wizard Settings

Select a network to extend

Remind

For Dual Band networks, select both 2.4 and 5GHz networks.
Connecting to networks with poor signal strength (less than 70%) may cause the connection to be slow or unstable.

5GHz Home Network

Select	Home Network	Ch	Security	Signal
☐	ron_5G	36	psk2+aes	63
☐	FET_PPPeE50	36	psk-mixed+aes	57
☐	SURFboard-81D2	36	psk2+aes	96
☐	RootAP-5G	36	psk2+aes	81
☐	Fidly WorkAP5G	36	psk2+aes	52

Back Next

Step 9: The *Security Settings* screen will be shown automatically if your WiFi router is using encryption. Enter your WiFi router security key. Click *Next*.

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Wizard Settings

Security Settings (if necessary)

If the Wi-Fi network (Home Network) that you are trying to connect to has security enabled, then enter the security key below. If your Home Network does not have security, then leave this field blank and click Next.

5GHz Wireless Network Security

Selected Network:

Home Network Security Key:

Back Next

Step 10: The *Extended Network Settings* screen will be prompted automatically if the security is enabled. It is recommended to click “Clone Settings” to use your existing WiFi router SSID and password or you can enter a new SSID and password you would like for the extender network. Click *Next*.

Step 11: Wait until the RP324 connects to the router and the browser moves to the *System Status* screen.



Step 12: Now move the RP324 to a suitable location. Place the extender 1 or 2 rooms away from your existing WiFi router. Check the *WiFi* LED color on the RP324 and make sure it's not solid red.



If the *WiFi* LED is solid red, move the RP324 closer to the WiFi router.

Step 13: After setup, the RP324 extends the network using the same SSID and password from your current WiFi router.

Appendix A

Regulatory



FCC Statement

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 of the following measures:

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

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device 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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.