

Ruijie Reyee RG-EW Series Router

POC Guide



Document Version: V1.0 Date: January 30, 2023 Copyright © 2023 Ruijie Networks

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Preface

Intended Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Official website of Ruijie Reyee: https://www.ruijienetworks.com/products/reyee
- Technical Support Website: <u>https://www.ruijienetworks.com/support</u>
- Case Portal: https://caseportal.ruijienetworks.com
- Community: https://community.ruijienetworks.com
- Technical Support Email: <u>service_rj@ruijienetworks.com</u>

Conventions

1. Signs

This document also uses signs to indicate some important points during the operation. The meanings of these signs are as follows.

🕕 Warning

An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

A Caution

An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

🚺 Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

Specification

An alert that contains a description of product or version support.

2. Note

This manual is used to guide users to understand the product, install the product, and complete the configuration.

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1 Product Introduction

Powerful Mesh Wi-Fi for Full Area Coverage

- Support Reyee Mesh, zero-configuration networking for multiple devices.
- Support next generation chip, delivering stable connection and better performance.
- Support Seamless Roaming, dead-zone killer, signal-amplifier offering strong signals.
- Support Ruijie Cloud Management, operation and maintenance remotely by mobile APP.
- Support scenario-oriented features with Parental Control, Xpress Acceleration Mode, etc.

2 Lists of Test Devices and Software

2.1 Test Device List

Device Type	Device Name	Quantity	Remarks
Mesh Wi-Fi			

2.2 Test Software List

Software Name	Quantity	Unit	Remarks
WiFi Moho	1	PCS	RSSI test
Speedtest	1	PCS	Speed test

3 Function Test Guide

3.1 Reyee mesh

Test Item	Reyee Mesh				
Test Purpose	Zero-Configuration Networking for Pairing Multiple Reyee device				
Test Procedure and Expected Results	 (1) The WAN port of the primary router is connected to the Internet and completes initialization. Clients such as mobile phones or PCs can find the SSID of the primary router and access the Internet. (2) Move the secondary router next to the primary router. You are advised to place the secondary router within 2 m (6.56 ft) away from the primary router without any obstacle. Power up and turn on the secondary router. (3) Press the Mesh button on the primary router. The Mesh LED of the primary router starts blinking. After 1 to 3 seconds, the LED on the secondary router starts fast blinking. When the LEDs on the primary and secondary routers are solid on, a Reyee mesh connection is successfully set up. (4) Disconnect the secondary router and move it to the position to be tested for Wi-Fi coverage. Power up the router, and wait for 3 minutes until the LED is solid on. (5) Log in to the Eweb of the primary router. You can check the mesh connection status on the homepage. 				
Test Records					
Test Conclusion					

3.2 Extreme Performance tests

Test Item	Extreme performance tests of household products
Test Purpose	Test the extreme performance of a household device.
Test Procedure and Expected Results	The WAN port of the primary router is connected to the Internet and completes initialization. Clients such as mobile phones or PCs can find the SSID of the primary router and access the Internet.

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	Home Clients Internet WI-FI More
	Wi-Fi Settings Dual-Band Sinole SSID
	* SSID (2,4G) Large Coverage & Slow Rate
	@Ruijie-sEFAB
	* SSID (5G) Small Coverage & Fast Rate
	@Ruijie-sEFAB_5G
	* Wi-Fi Password
	Wi-Fi6 🕑
	Save
	(4) If the device has an external antenna, keep the antenna upright, and keep the client
	facing the testing device.
	(5) When the client connects to the SSID, ensure that the client is within 2 m (6.56 ft)
	away from the testing device
	(6) Select the optimal testing server when testing the speed by Speedtest .
	(7) Test for three consecutive times, record the values and calculate the average.
	First test
	o Download: Mbps
	o Upload: Mbps
	o ping: ms
	Second test
	o Download: Mbps
	o Upload: Mbps
Test Records	o ning: ms
Test	
Conclusion	
Test Conclusion	

3.3 Signal Coverage Tests

Test Item	Signal Coverage Tests
Test Purpose	Test the signal coverage of the router.
Test Procedure and Expected Results	Power Modem LAN Port

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	(1) The WAN port of the primary router is connected to the Internet and completes
	initialization. Clients such as mobile phones or PCs can find the SSID of the primary
	router and access the Internet
	(2) Connect the client to the SSID and move it to the specified testing position.
	(3) Enable WiFi Moho and record the signal strength of the position.
	(4) Enable Speedtest to test the speed and record the values.
	(5) Record signal strength of different positions and speed testing results.
	First test
	o Distance: m
	o RSSi: dBm
	o Upload: Mbps
	o Download: Mbps
	Second test
	o Distance: m
	o RSSi: dBm
	o Upload: Mbps
Test Records	o Download: Mbps
Test	
Conclusion	

3.4 Repeater

Test Item	Repeater Tests	
Test Purpose	Verify the Reyee Mesh function and the Other Router repeater function of the repeater.	
	Connecting the Device to a Reyee Router (Reyee Mesh)	
Test Procedure and Expected Results	Power supply faceplate	
	(1) Connect the mesh repeater to a power source, and wait for 1-2 minutes until the status of the center green LED changes from blinking to solid on. The mesh repeater is	
	started.	

(2) Press the Reyee mesh button on the primary Reyee router or connect the network cable to the primary Reyee router for automatic networking. When the three bars of the LED are on, Reyee mesh is successfully set up. Then the default Wi-Fi disappears, and the Wi-Fi name and password are synchronized with the primary router. When the signal LED is solid white, the network connection is successful. Clients can connect to the amplified Wi-Fi of the primary router to access the Internet. (3) If the center dot LED is solid red, the network connection fails. Check whether the primary router can access the Internet. If the center dot is solid orange, the connection with the primary router fails. Move the mesh repeater to a position closer to the primary router, remove obstacles, and press the Reyee mesh button on the primary router again. (4) Place the repeater in a position requiring signal coverage. Note The distance between the repeater and the primary router is less than two walls for a faster network speed. Connect the Device to a Modem or the Other Router (1) Connect the mesh repeater to a power source, and wait for 1-2 minutes until the status of the center green LED changes from blinking to solid on. The mesh repeater is started. (2) Search for the wireless network with the Wi-Fi name @Ruijie-sXXXX by using a mobile phone or laptop. The mobile phone or laptop can log in to the web management page through a browser. (3) Select Wireless Repeater Rume Welcome to Use Ruijie Router Wireless repeater mode: Click Wireless Repeater, select the Wi-Fi of the primary router, and enter the Wi-Fi password of the primary router to connect to the Wi-Fi

	← Disco	ver Wi-Fi		
				_
	Q ssib	S	← Wi−Fi	
	56 ruijie-guest	Good	Confirm SSID and WI-FI Key:	1
	50 ruijie-802.1x	Good	Primary Router SSID	
	5G xlaoxi_5G	Good	xiaoxi_5G	
	50 test	Good	* Password	
	5G XXXX	Good	Please enter a password.	
	56 @Ruijie-guest-2	277 Good		
		postor mode	the device extende M	Ti signale and disables its DUCD
	in wireless re	epealer mode,	the device extends wi-	-i signals and disables its DHCP
	function. Wh	en clients conr	nect to the wireless net	work, the primary router assigns
	addresses to	them. When the	e device in wireless repe	ater mode extends the network of
	the primary r	outer, the WAN	l interface is unchanged.	If you connect the network cable
	to the WAN in	nterface, the de	evice automatically switcl	nes to the wired repeater mode.
Test Records				
Test				
Conclusion				

3.5 Parental Control: Online Time Control

Test Item	Online time control					
Test Purpose	Blocking users	Blocking users from accessing the Internet for a period of time				
	(1) Connect th Time to s	ne client to the set block time	SSID. On	the Client pag	ge, click +Add	Blocked
	Ruijie	L Hor	ne Clients	₩ 🐨	-8- More	Englis
	Clients The client list include	es online clients and blocked clients. The client go	ing offline will not disappear immediate	ly. Instead, the client will stay in the list for three n	nore minutes.	
	Clients			Search by IP/MAC/Username Q	Refresh Blocked Time Management	Blocked WLAN Clients Management
	Username/Typ	ve VHL	IP/MAC	Current Rate	Blocked Time Not Set (No time is blocked.)	Action ©
Test	Mured Wired		00:0e:c6:60:c2:e6 Unbinded	Down:16.51Kbps	+ Add Blocked Time	Wired Client
Procedure	(2) Add the R	ule				
and Expected	Add Pule		×			
Results	Add Kule					
	Blocked Tim	e Custom	~			
	* Dat	e Thursday 🛞	~			
	* Tim	e 🕓 14:39 - 🕓 14:4	2			
	Remai	k LAPTOP-JB4BKVHL				
		C	ancel			
	(3) When the	e blocking time	e is not rea	ched, client ac	cess the Intern	et normally



3.6 WISP

Test Item	WISP				
Test Purpose	Verify the WSIP function.				
	 Note: Only the EW1200G-PRO, EW300-PRO, EW1200R, and EW300R support the WSIP function. (1) Log in to the Eweb of the router and click WISP. Image: State of the s				
Test Procedure and Expected	 (2) On the displayed network setup page, click Next to automatically obtain an IP address. Image: Comparison of the primary register and opter the Wi Ei password to connect to the setup to the primary register and opter the Wi Ei password to connect to the setup to the primary register and opter the Wi Ei password to connect to the setup to the primary register and opter the Wi Ei password to connect to the setup to th				
Results	(c) Central the conduct the primary router and enter the write password to connect to the primary router. visp				
	(4) Set the SSID and password and save the settings. Then settings of the Wi-Fi network are reset. Image: the set the setting the settin				

	(5)	In wireless ISP mode, the device still supports routing and DHCP functions, IP
		addresses of clients connected to the primary router are assigned by the primary
		router and the IP addresses of clients connected to the secondary router are assigned
		by the secondary router.
Test Records		
Test		
Conclusion		