

RG-EST310 V2

5GHz Dual-stream 802.11ac

5KM Wireless Bridge

DATASHEET



Highlights

- RG-EST350 V2 can easily transmit data from 5KM away in real time
- Automatic pairing at long distance, without complex alignment
- IP54 Weatherproof, -30°C~65°C guarantee stable operating at outdoor environment
- Support maximum 45 x 2MP cameras loading at 3KM, 20 x 2MP cameras loading at 5KM
- Visually Intuitive statistics monitoring on Ruijie cloud, easy maintenance at remotely

Highlight Features

RG-EST310 V2

5GHz Single-band Dual-stream 802.11ac Wireless Bridge



2x2 MIMO 5GHz 2x2 MIMO **1 x FE Port**

Not Limited to 1KM

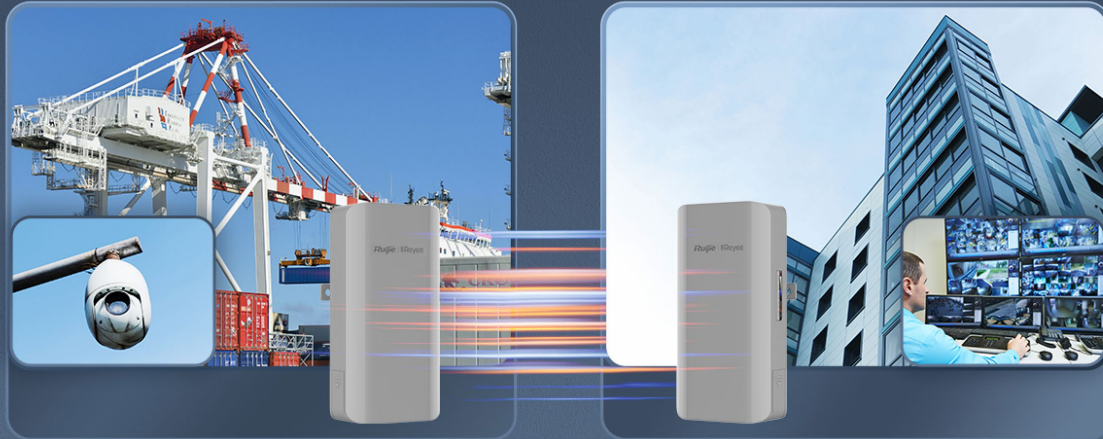
Wireless bridge expert for CCTV scenario



867 Mbps **PTP/PTMP**


Highlight Features

Strong Adaptability and High Scalability



 V0 Level
Flame Retardant

 IP54
Weatherproof

 -30 to 55°C Operating
Temperature

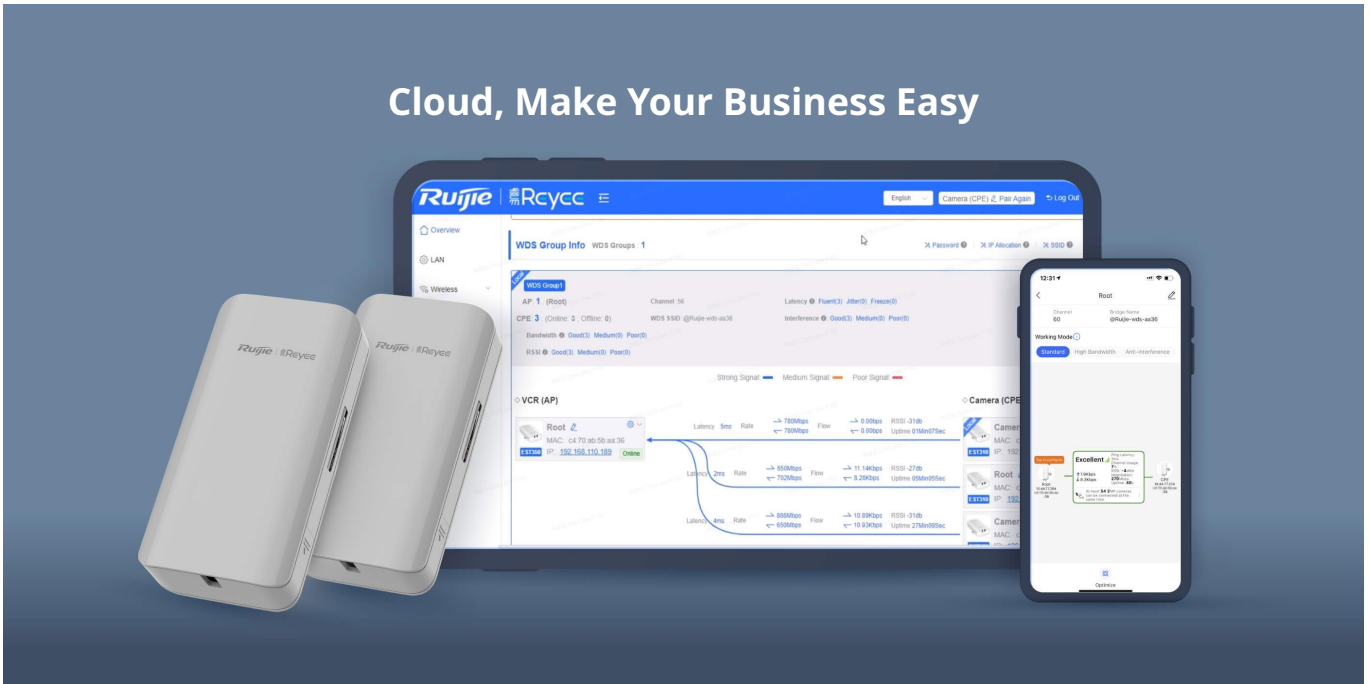
High Quality High Performance

RG-EST310 V2 has adopted the new high-performance 5GHz single-band dual-stream chip solution, which offers up to 867Mbps wireless transmit rate and significantly enhances the efficiency and stability of network bridge data transmission.



Highlight Features

Cloud, Make Your Business Easy



Specifications

Basic

Radio Design	5 GHz Single-Band Dual-Stream
Transmission Protocol	IEEE 802.11 ac/n/a
Operating Band	802.11a/n/ac: 5.150~5.350GHz, 5.470~5.725GHz, 5.725~5.850GHz (country specific) Note: Allowable frequencies and bands are dictated by individual country regulations. Thailand product does not support 5.150-5.350GHz outdoors.
Antenna	Directional antennas, 10 dBi
Polarization	Horizontal: 60°, Vertical: 30°
Bridging Distance	3 KM (recommended)
Spatial Streams	2x2, MU-MIMO
Memory/Flash	64 MB/8 MB
Maximum Throughput	Up to 867 Mbps at 5 GHz
Ports	1 10/100Base-T Ethernet ports, port 1 with Passive PoE
Max. Transmit Power	≤400 mW(26 dBm) (adjustable)
IP Rating	IP54
Lightning Protection	4 KV
Installation	Wall-mounted/ Pole-mounted
Weight	0.35 kg
Dimensions (D x W x H)	147 mm x 76 mm x 37 mm

Software Features

IPv4	
802.1Q VLAN	✓
Multi-VLAN Transparent Transmission	✓
ARP	256
Max. Concurrent Connections	8000
Ping	✓

Specifications

Software Features

IPv4

Traceroute ✓

Unicast traffic ✓

DHCP Client ✓

DNS Client ✓

Static IP address ✓

IP Collision Avoidance ✓

Management IP 192.168.120.1

Routing

Default Route ✓

Wireless

SSID/SSID Hiding ✓

Password Open / WPA-PSK / WPA2-PSK / WPA/WPA2-PSK

RSSI -52/100M
-65/500M
-68/1KM
-75/2KM

Performance 90Mbps/100M(HT40)
80Mbps/500M(HT40)
80Mbps/1KM(HT40)
40Mbps/2KM(HT40)

One-Click Optimization ✓

DFS ✓

Local Forwarding ✓

WLAN QoS WMM

Management

Zero Provisioning on Cloud QR-Code / Serial Number

CWMP(TR069) Support ✓

Specifications

Software Features

Management

Point-to-Point



Point-to-Multipoint

Recommended 5

Self-Organizing Network

Max. 200 wireless bridges

AP/CPE Switchover



Interface Configuration



Country Code

176 countries support, details refer to Country&Region Code reference

Clock setting



Time Zone



Maintanance

Alarm

IP address conflict / SSID / Offline

Diagnostics



Reboot



Reset



Cloud Features

Remote Access



Remote Reboot



Statistics Monitoring



Working mode

Normal / High performance / Anti-interference

Remote SSH



Remote EWeb



Camera Reference

3Mbps Video Bit Rate

16 Units/100M
16 Units/500M
16 Units/1KM
6 Units/2KM

Specifications

Software Features

Camera Reference

4-5Mbps Video Bit Rate	10 Units/100M
	10 Units/500M
	10 Units/1KM
	4 Units/2KM

6Mbps Video Bit Rate	7 Units/100M
	7 Units/500M
	7 Units/1KM
	3 Units/2KM

Hardware Features

Physical Features

LED indicator	LEDs indicate the bridging quality: LED off: No bridging LED blinking: $\leq -78\text{dBm}$ One LED on: $-78\text{dBm} < \text{RSSI} \leq -72\text{dBm}$ Two LEDs on: $-72\text{dBm} < \text{RSSI} \leq -65\text{dBm}$ Three LEDs on: $> -65\text{dBm}$
---------------	--

Hardware Button	1 reset button
-----------------	----------------

Power Supply	12 VDC power supply or 24 VDC Passive PoE
--------------	---

Power Consumption	$< 7\text{W}$
-------------------	---------------

Environment	Operating temperature: -30°C to 55°C (-22°F ~ 131°F) Storage temperature: -40°C to 70°C (-40°F ~ 158°F) Operating humidity: 5% to 95% (noncondensing) Storage humidity: 5% to 95% (noncondensing)
-------------	--

MTBF	$> 400,000\text{H}$
------	---------------------

Package Contents

Device	RG-EST310 V2 * 2
Mounting Bracket	2
Hose Clamps	4
Power supply	Power adapter * 2
User Manual	1
Wall Anchors	4
Phillips Pan Head Screws	8
Package Weight	1.35 kg
Package Dimension (w x d x h)	400*231*88mm

Ruijie | Rcycc

 **Redefine your easy network**

Copyright ©2000-2023 Ruijie Networks Co., Ltd. All rights reserved.

No part of this document may be reproduced or transmitted in any form or any means without prior written consent of Ruijie Networks Co., Ltd.

Notice

This content is applicable only to regions outside the China mainland. Ruijie Networks Co., Ltd. reserves the right to interpret this content.

The information contained herein is subject to change without notice. Nothing herein should be construed as constituting an additional warranty. Ruijie Networks Co., Ltd. shall not be liable for technical or editorial errors or omissions contained herein.



Ruijie Networks Co., Ltd.
Building 19, Juyuanzhou Industrial Park, No.618
Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Website: <https://www.ruijienetworks.com>