

# RG-EST310 V2

## 5GHz Dual-stream 802.11ac 1KM Wireless Bridge

DATASHEET



### Highlights

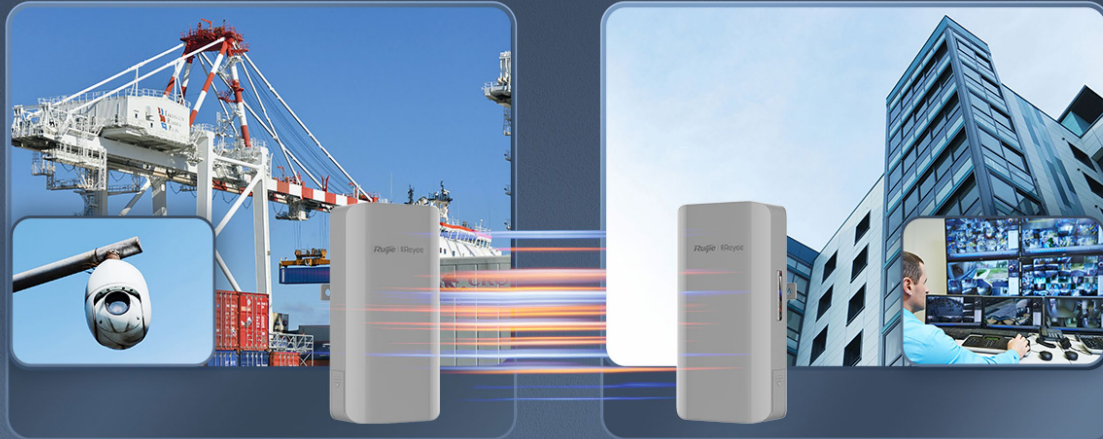
- RG-EST310 V2 provide stable traffic transmission from 1KM away.
- Automatic pairing and automatic healing
- IP54 Weatherproof, -30°C~55°C ensures stable operating
- Cost-effective wireless solution for elevator CCTV to avoid cable loss

# Highlight Features



## Highlight Features

### Strong Adaptability and High Scalability



V0 Level  
Flame Retardant



IP54  
Weatherproof



-30 to 55 C Operating  
Temperature

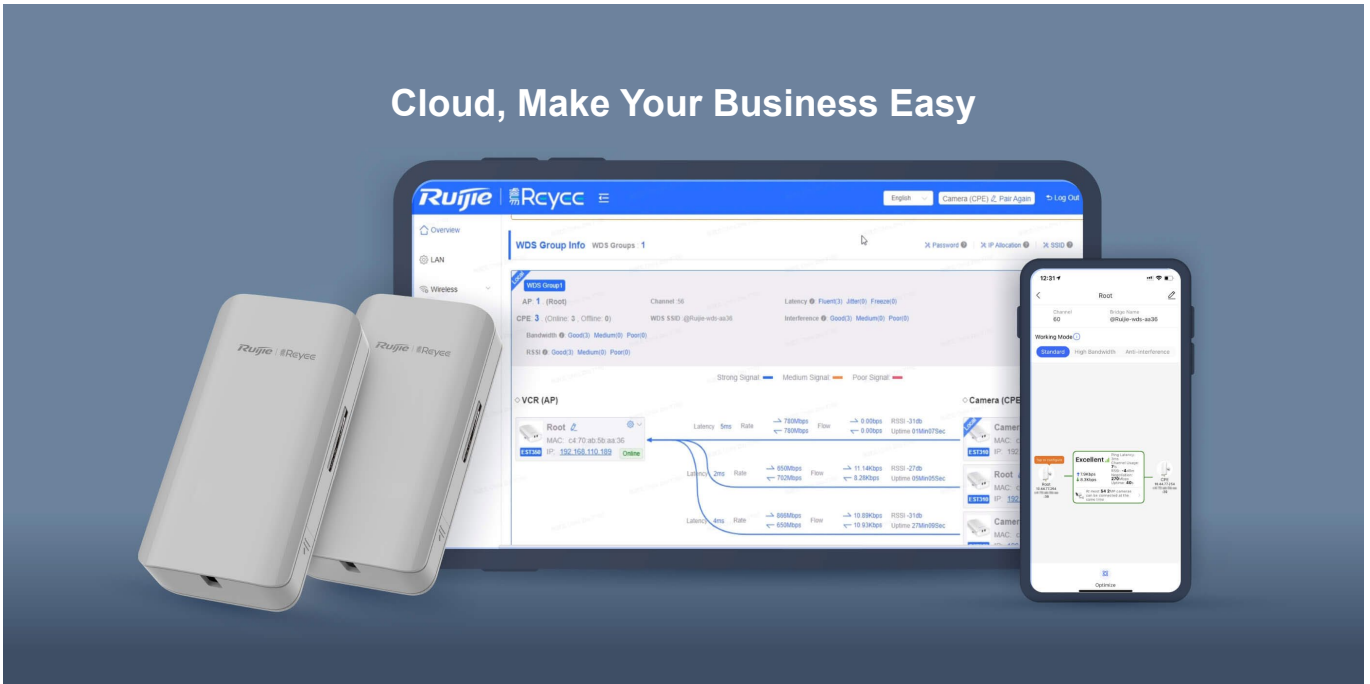
### High Quality High Performance

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)
Antenna	Directional antennas, 10 dBi
Polarization	Horizontal: 60°, Vertical: 30°
Bridging Distance	1 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 × 76 mm × 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: $-30^{\circ}\text{C}$ to $55^{\circ}\text{C}$ ( $-22^{\circ}\text{F}$ ~ $131^{\circ}\text{F}$ ) Storage temperature: $-40^{\circ}\text{C}$ to $70^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ ~ $158^{\circ}\text{F}$ ) Operating humidity: 5% to 95% (noncondensing) Storage humidity: 5% to 95% (noncondensing)
-------------	--

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



## Package Contents

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

**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>