

# 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

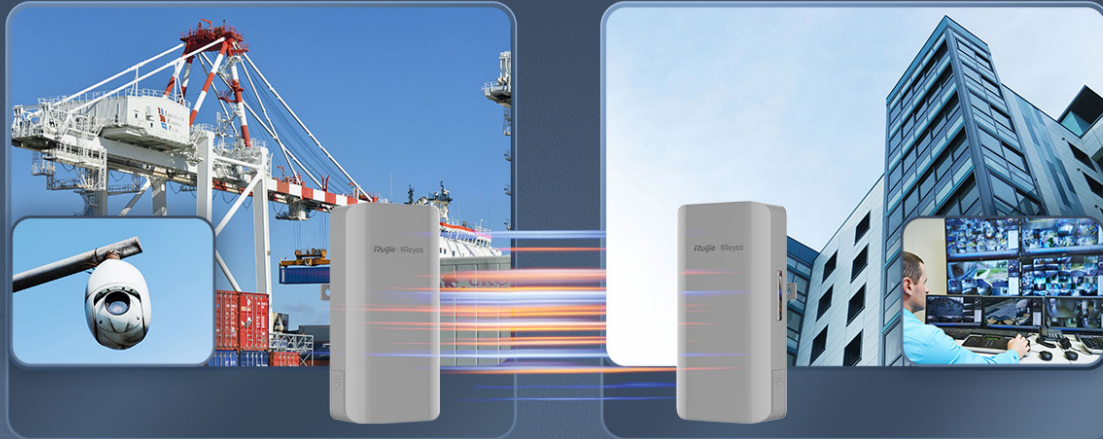
Wireless bridge expert for CCTV scenario



**867 Mbps**      **PTP/PTMP**

## Highlight Features

### Strong Adaptability and High Scalability



V0 Level  
Flame Retardant



IP54  
Weatherproof



-30 to 55 C Operating  
Temperature

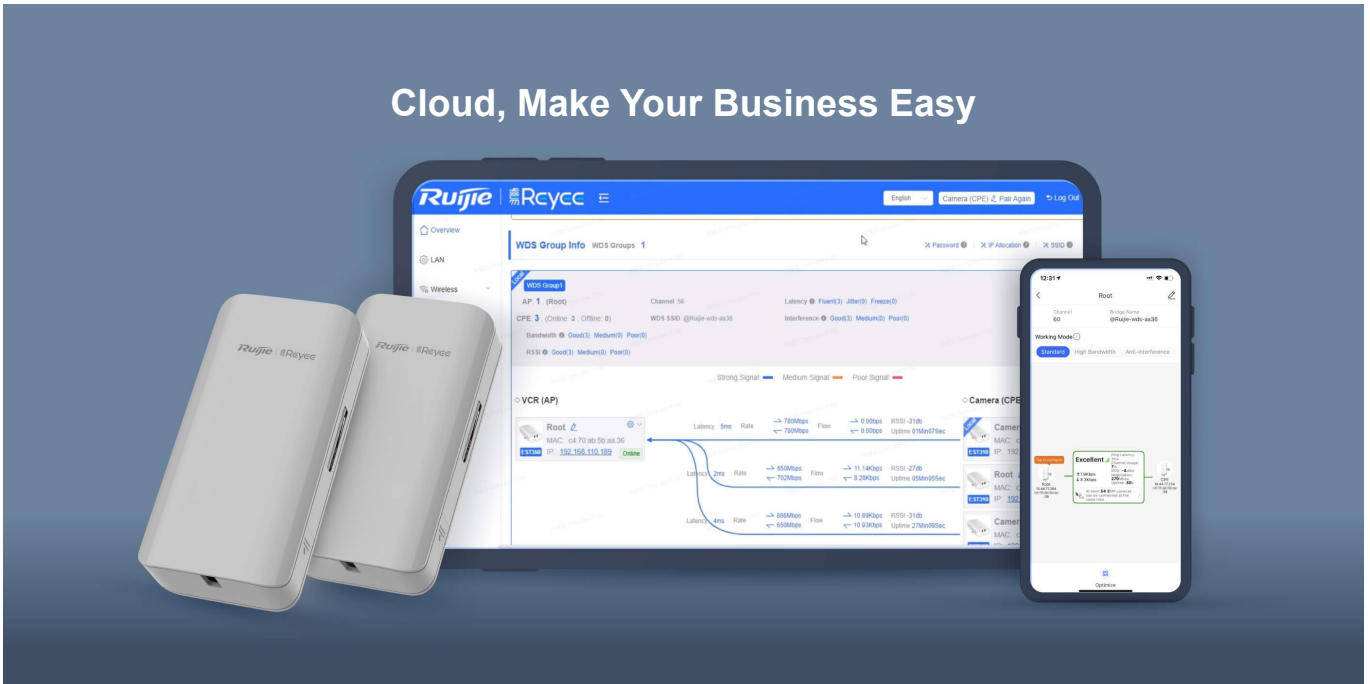
### High Quality High Performance

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)
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 × 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
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# 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: $> -65\text{dBm}$
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Hardware Button	1 reset button
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Power Supply	12 VDC power supply or 24 VDC Passive PoE
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Power Consumption	$< 7\text{W}$
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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)
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MTBF	$> 400,000\text{H}$
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## 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**

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