

# RG-EST350 V2

## 5 GHz Dual-stream 802.11ac 5 km Wireless Bridge



### Highlights

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

# Highlight Features

## RG-EST350v2

5GHz Dual-stream 802.11ac Next-generation Wireless Bridge

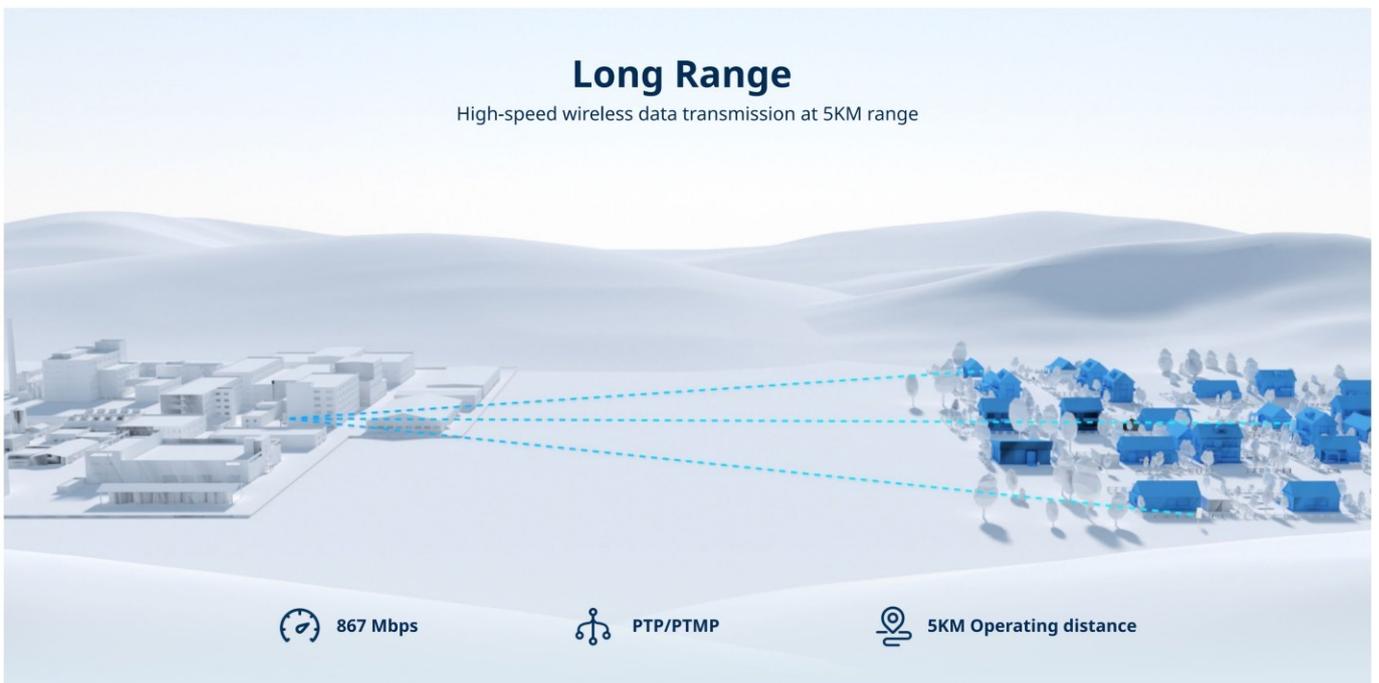


**2x2 MIMO** 5GHz 2x2 MIMO

**2 x GE Ports**

## Long Range

High-speed wireless data transmission at 5KM range



**867 Mbps**

**PTP/PTMP**

**5KM Operating distance**

# Highlight Features

## High Capacity

45 cameras maximum at 3KM, 20 cameras maximum at 5KM\*



3KM

2MP

x 45 Units



5KM

2MP

x 20 Units

\*H.265, 2MP Cameras, 3Mbps. To guarantee the transmission quality, the environment should be kept as open as possible to reduce the interference. At the same time, it is recommended to adjust it to the best alignment angle with the signal strength indicator or Ruijie Cloud APP.

## Reliable



V0 level  
flame retardant



IP54  
Weatherproof



-30~65°C operating  
temperature

# Highlight Features

## Convenient

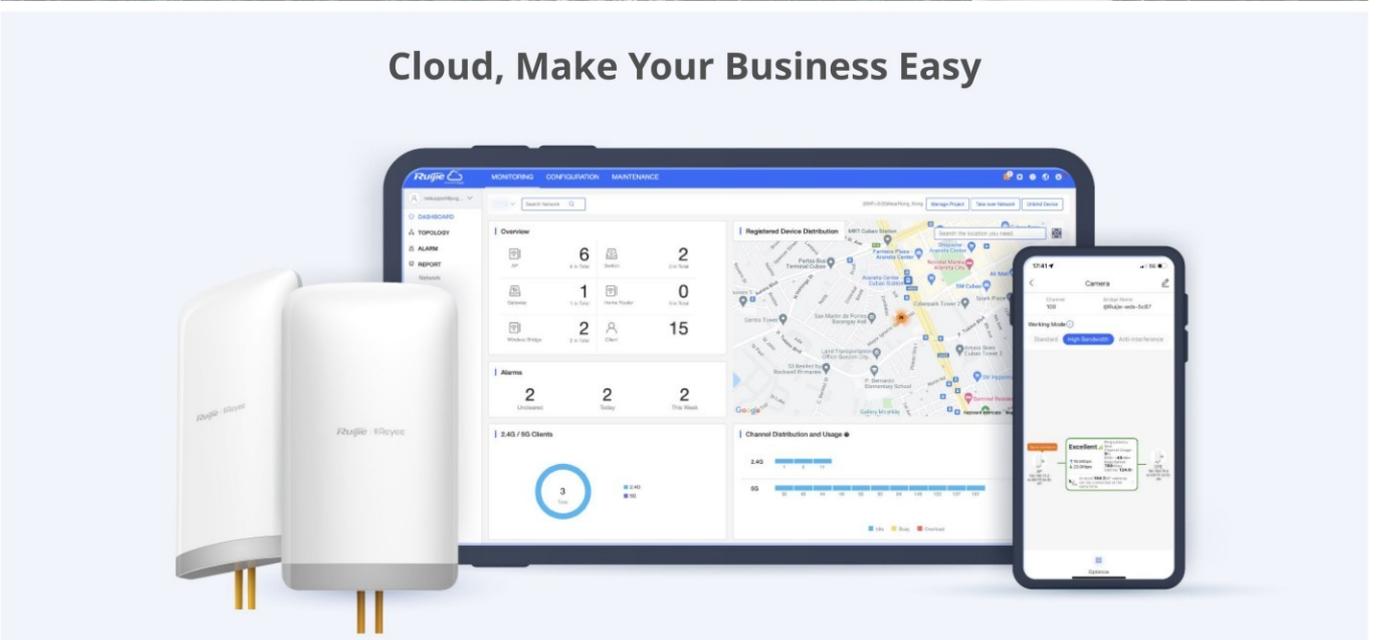
Zero configuration automatic pairing  
Plug and Play



## Easy to Install



## Cloud, Make Your Business Easy



**Zte Cloud Management Interface**

**Dashboard Overview:**

- 6 Devices
- 2 Alerts
- 1 New Device
- 0 New Alerts
- 2 Users
- 2 Clients
- 15 Channels

**Registered Device Distribution:**

**Channel Distribution and Usage:**

**2.4G / 5G Clients:**

**3 Clients**

**Camera View:**

Working Mode: Excellent

## / Product Information

Model	RG-EST350 V2
Product Type	Bridge
Accessory	No

## / Hardware Specifications

Model	RG-EST350 V2
<b>Applicable Scenarios</b>	
Applicable Scenarios	CCTV
<b>Wi-Fi Radio</b>	
Radio design	Single-radio 2 spatial streams <ul style="list-style-type: none"><li>Radio 1: 5 GHz, 2 spatial streams: 2 x 2, MIMO</li></ul>
Operating band	IEEE 802.11a/n/ac: 5.150 GHz to 5.350 GHz IEEE 802.11a/n/ac: 5.470 GHz to 5.725 GHz IEEE 802.11a/n/ac: 5.725 GHz to 5.850 GHz  Note: Available bands vary with countries and regions. To use the preceding frequency bands, ensure that your country or region supports these frequency bands. For details, see Channels for Countries & Regions (official website link to be added).
Wi-Fi standard	Wi-Fi 5 (IEEE 802.11ac) standard, compatible with IEEE 802.11a/n standards
5 GHz Wi-Fi	Wi-Fi 5 (IEEE 802.11ac)
5 GHz channel width	Auto/20/40/80 MHz
Transmission rate	Maximum wireless data rate: 866 Mbps <ul style="list-style-type: none"><li>Radio 1: 5 GHz, 866 Mbps</li></ul>
Maximum transmit power	5 GHz: 29 dBm (single-stream power: 26 dBm) Note: The transmit power varies according to regulations in different countries and regions.
Receive sensitivity	802.11a: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps) 802.11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15 802.11ac HT20: -83 dBm (MCS0), -57 dBm (MCS9)

# Hardware Specifications

Model	RG-EST350 V2
	802.11ac HT40: -79 dBm (MCS0), -54 dBm (MCS9) 802.11ac HT80: -76 dBm (MCS0), -51 dBm (MCS9)
Modulation	802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Highest QAM order	256
<b>Antenna</b>	
Antenna	5 GHz: 2 x 2 Built-in directional antenna, horizontal: 31°, vertical: 14°
Antenna gain (5 GHz)	15 dBi
Antenna horizontal orientation	31°
Antenna vertical orientation	14°
<b>System Specifications</b>	
CPU	Dual-core processor, 880 MHz clock frequency per core
Flash memory	8 MB
RAM	128 MB DDR3
<b>Dimensions and Weight</b>	
Weight	0.49 kg (1.09 lbs)(without packaging materials)
Shipping weight	2.15 kg (4.74 lbs)
Product dimensions (W x D x H)	230 mm x 132 mm x 48 mm (9.06 in. x 5.20 in. x 1.89 in.) (excluding mounting bracket)
Package dimensions (W x D x H)	356 mm x 326 mm x 78 mm (14.02 in. x 12.83 in. x 3.07 in.)
Color	Elegant white
<b>Port Specifications</b>	
Number of fixed LAN ports	2
Number of 10/100/1000BASE-T ports	2
Reset button	1
LEDs	1 x system status LED 2 x Ethernet port LEDs 3 x signal status LEDs

# Hardware Specifications

Model	RG-EST350 V2
<b>Power Supply and Consumption</b>	
<b>Power supply</b>	Power supply options: <ul style="list-style-type: none"> <li>• DC power adapter</li> <li>• Passive PoE adapter</li> </ul>
<b>Power input</b>	Passive PoE adapter: <ul style="list-style-type: none"> <li>• Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz</li> <li>• Rated input current: 0.5 A Max</li> <li>• Rated output voltage: 24 V DC</li> <li>• Maximum output current: 0.6 A</li> </ul>
<b>Number of PoE In ports</b>	1
<b>Local power supply</b>	Yes, one DC power connector (12 V, 1 A)
<b>Dimensions of the DC connector</b>	Outer Diameter: 5.50 mm ± 0.05 mm (0.22 in. ± 0.002 in.) Inner Diameter: 2.10 mm ± 0.05 mm (0.08 in. ± 0.002 in.) Depth: 9 mm (0.35 in.)
<b>Maximum power consumption</b>	9 W
<b>Environment and Reliability</b>	
<b>Mounting options</b>	Wall/Pole
<b>Operating temperature</b>	-30°C to +65°C (-22°F to +149°F)
<b>Storage temperature</b>	-40°C to +70°C (-40°F to +158°F)
<b>Operating humidity</b>	5% RH to 95% RH (non-condensing)
<b>Storage humidity</b>	5% RH to 95% RH (non-condensing)
<b>Altitude</b>	Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)
<b>MTBF</b>	400,000 hours (about 45 years)
<b>Cooling</b>	Natural cooling
<b>IP rating</b>	IP54
<b>ESD protection</b>	Standard test: contact discharge=8 kV, air discharge=15 kV, Class B
<b>Surge protection</b>	Service port: ±4 kV for common mode Power connector: ±4 kV for common mode and ±2 kV differential mode

# / Hardware Specifications

Model	RG-EST350 V2
<b>Certification and Regulatory Compliance</b>	
<b>Safety compliance</b>	EN62368-1
<b>EMC</b>	EN 55032 EN 55035 EN 61000-3-3 EN 61000-3-2 EN 301489-1 EN 301489-3 EN 301489-17
<b>Certification</b>	CE, FCC, CB, ISED, cTUVus

# Software Specifications

Model	RG-EST350 V2
<b>WLAN</b>	
BaseStation/CPE mode switching	Yes
Enhanced one-to-many transmission (TDMA)	No
Bridge SSID hiding	Yes
WPA2-PSK encryption	Yes
WPA-PSK encryption	No
WPA/WPA2-PSK encryption	No
Recommended channel	Yes
Bridge speed test	Yes
Random security key upon configuration delivery	No
Configuring a security key for network-wide bridges	Yes
Configuring a security key for a single bridge group	Yes
Configuring a security key for a single bridge	Yes
Bridge SSID, channel, and power configuration	Yes
WMM	Yes
Maximum PTMP connections	3
Maximum bridge distance	5 km (3.11 miles)
One-touch pairing	Yes
Maximum effective distance of one-touch pairing	50 m (160.04 ft.)
Bridge performance	230 Mbps/1 km (0.62 miles) (HT40) 200 Mbps/3 km (1.86 miles) (HT40) 150 Mbps/5 km (3.11 miles) (HT40)
RSSI	- 58 dBm/1 km (0.62 miles) - 66 dBm/3 km (1.86 miles) - 70 dBm/5 km (3.11 miles)

# Software Specifications

Model	RG-EST350 V2
Recommended number of connected cameras (3 Mbps)	50/1 km (0.62 miles) 45/3 km (1.86 miles) 20/5 km (3.11 miles)
Recommended number of connected cameras (4 - 5 Mbps)	30/1 km (0.62 miles) 25/3 km (1.86 miles) 12/5 km (3.11 miles)
Recommended number of connected cameras (6 - 7 Mbps)	20/1 km (0.62 miles) 13/3 km (1.86 miles) 8/5 km (3.11 miles)
Recommended number of connected cameras (7-8 Mbps code streams)	15/1 km (0.62 miles) 12/3 km (1.86 miles) 6/5 km (3.11 miles)
Real-time signal strength	Yes
Optimal signal strength	Yes
Active/Standby channel	Yes
Restoring to the active channel	Yes
Maximum number of devices on the SON	200
<b>Basic Configurations</b>	
eWeb login with the username and password	Yes
Local upgrade	Yes
Configuration backup	Yes
System language	Chinese (Simplified), English
System time settings	Yes
<b>Ethernet Switching</b>	
Interface rate	10/100/1000 Mbps auto-negotiation
VLAN	Yes
Link aggregation	No
<b>IP Service</b>	
IPv4 ping	Yes

# Software Specifications

Model	RG-EST350 V2
IPv4 traceroute	Yes
DHCP server	Yes
DHCP client	Yes
<b>Security</b>	
Broadcast storm control	Yes
<b>Network Management and Monitoring</b>	
SON	Yes
AI heatmap	No
Camera detection	No
Network-wide management SSID configuration	Yes
Network connection through the management SSID	No
Ruijie Cloud management	Yes
Restarting devices through Ruijie Reyee App	Yes
SNMPv1, v2c, and v3	No
Fault diagnosis	Yes Note: support for network tools (ping, traceroute, and nslookup), fault alarms, and fault collection
Restart cause prompt	No
Disconnection cause prompt	No
Cloud alarms on DFS signal detection	No

## Package Contents

Model	RG-EST350 V2
<b>Device</b>	
Device	2
<b>Accessories</b>	
Power adapter	2 Note: 24 V passive PoE adapter
Power cord	39.37 in. x 2
Mounting bracket	2
Screw	8 x Phillips pan head screws (self-tapping screws 4.2 mm x 19 mm)
<b>Manual</b>	
User Manual	1
Warranty Card	1

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**Ruijie Networks Co., Ltd.**

Official Website: <https://Reyee.Ruijie.com>