

RG-EST350 V2

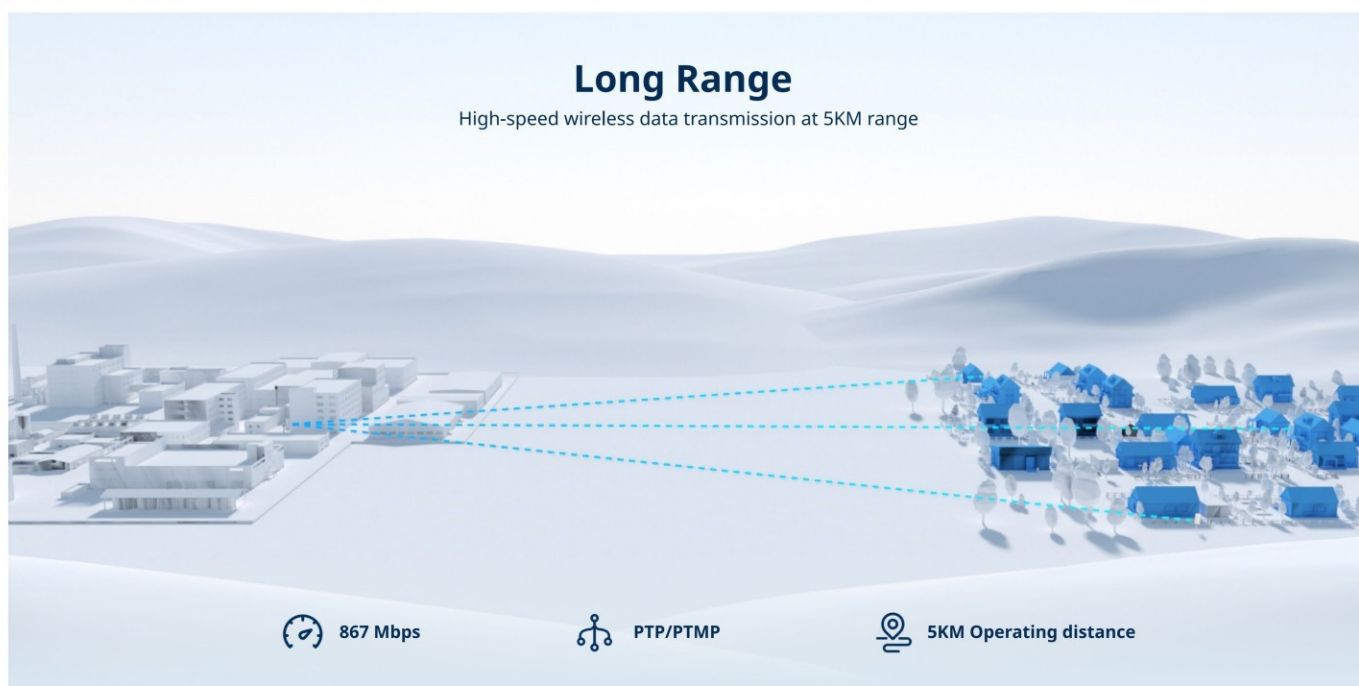
5 GHz Dual-stream 802.11ac 5 km Wireless Bridge



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



Highlight Features

High Capacity

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



2MP

3KM

x **45** Units



2MP

5KM

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

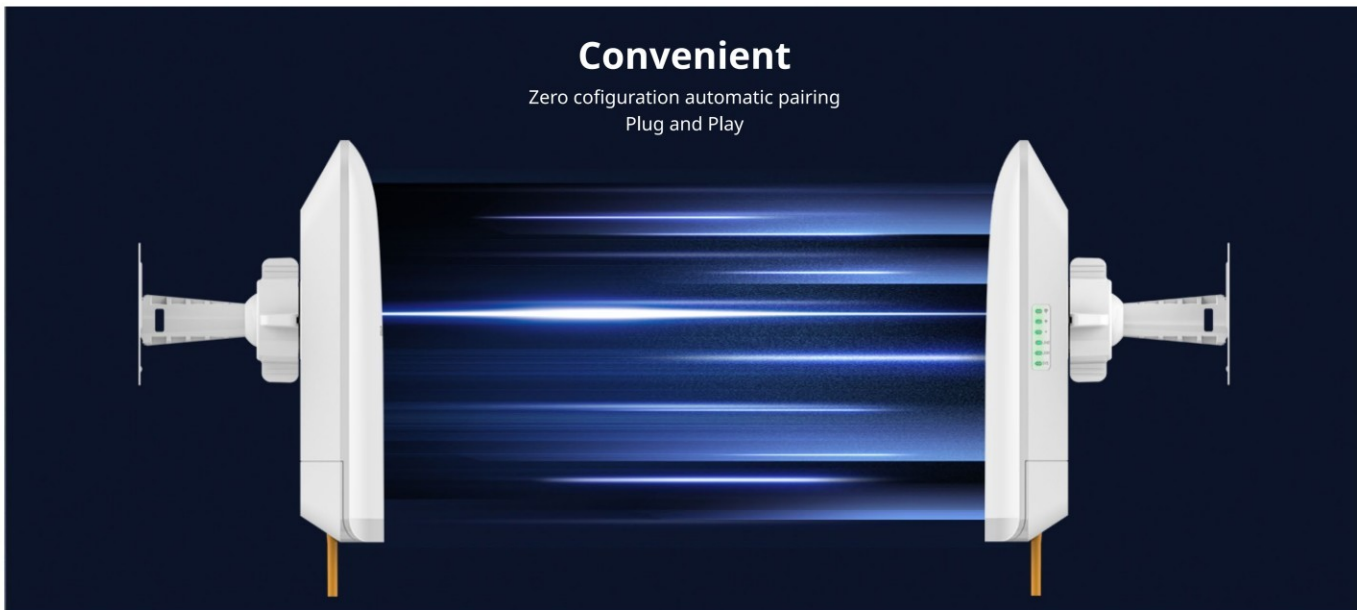


-30~65°C operating
temperature

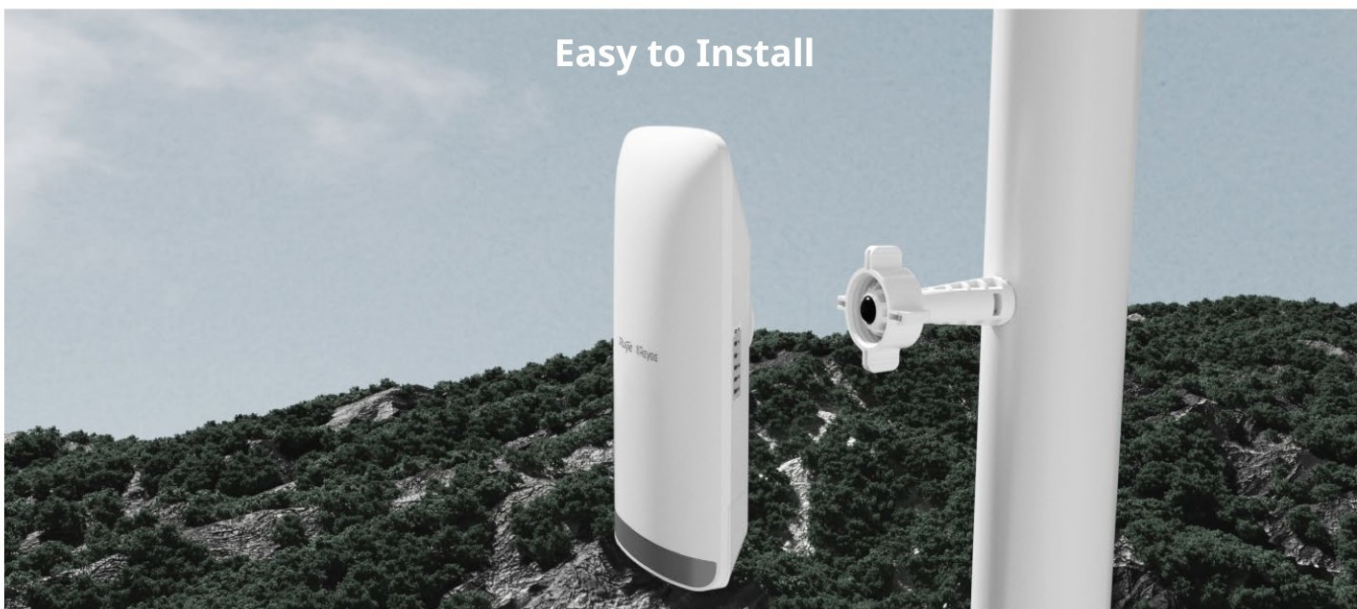
Highlight Features

Convenient

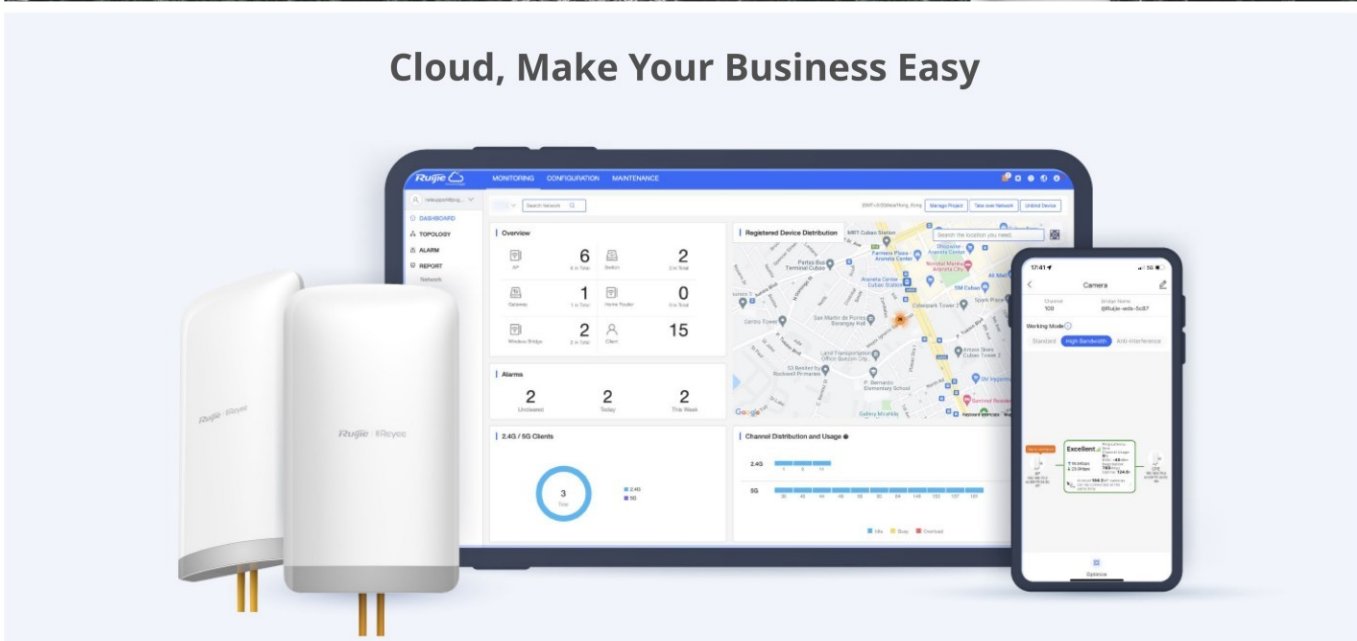
Zero configuration automatic pairing
Plug and Play



Easy to Install



Cloud, Make Your Business Easy



Product Information

Model	RG-EST350 V2
Product Type	Wireless bridge
Accessory	No

Hardware Specifications

Model	RG-EST350 V2
Power Supply and Consumption	
Power supply	Power supply options: • DC power adapter • Passive PoE adapter
Power input	Passive PoE adapter: • Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz • Rated input current: 0.5 A Max • Rated output voltage: 24 V DC • Maximum output current: 0.6 A
Number of PoE In ports	1
Local power supply	Yes, one DC power connector (12 V, 1 A)
Dimensions of the DC connector	Outer Diameter: 5.50 mm $\pm$ 0.05 mm (0.22 in. $\pm$ 0.002 in.) Inner Diameter: 2.10 mm $\pm$ 0.05 mm (0.08 in. $\pm$ 0.002 in.) Depth: 9 mm (0.35 in.)
Maximum power consumption	9 W
Port Specifications	

Hardware Specifications

Model	RG-EST350 V2
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
Environment and Reliability	
Mounting options	Wall/Pole
Operating temperature	-30°C to +65°C (-22°F to +149°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	5% RH to 95% RH (non-condensing)
Storage humidity	5% RH to 95% RH (non-condensing)
Altitude	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.)
MTBF	400,000 hours (about 45 years)
Cooling	Natural cooling
IP rating	IP54
ESD protection	Standard test: contact discharge=8 kV, air discharge=15 kV, Class B

Hardware Specifications

Model	RG-EST350 V2
Surge protection	Service port: ± 4 kV for common mode Power connector: ± 4 kV for common mode and ± 2 kV differential mode
Wi-Fi Radio	
Radio design	Single-radio 2 spatial streams Radio 1: 5 GHz, 2 spatial streams: 2 x 2, MIMO
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 Radio 1: 5 GHz, 866 Mbps

/ Hardware Specifications

Model	RG-EST350 V2
Maximum transmit power	Frequency bands and maximum Effective Isotropic Radiated
	Power (EIRP):
	Note: Country specific restrictions apply.
	European Union & United Kingdom:
	2400–2483.5 MHz, EIRP ≤ 20 dBm
	5470–5725 MHz, EIRP ≤ 30 dBm
	Myanmar:
	2400–2483.5 MHz, EIRP ≤ 23 dBm
	5725–5850 MHz, EIRP ≤ 30 dBm
	Thailand:
	2400–2483.5 MHz, EIRP ≤ 20 dBm
	5150–5350 MHz, EIRP ≤ 23 dBm
	5470–5725 MHz, EIRP ≤ 30 dBm
	5725–5850 MHz, EIRP ≤ 30 dBm
	Indonesia:
	2400–2483.5 MHz, EIRP ≤ 36 dBm
	5725–5825 MHz, EIRP ≤ 36 dBm
	Egypt:
	2400–2483.5 MHz, EIRP ≤ 20 dBm
	5150–5350 MHz, EIRP ≤ 23 dBm
	Vietnam:
	5150-5350 MHZ, EIRP ≤ 23 dBm

Hardware Specifications

Model	RG-EST350 V2
	5470-5725 MHz, EIRP $\leq$ 30 dBm 5725-5850 MHz, EIRP $\leq$ 30 dBm
Maximum transmit power (5 GHz)	Combined power: 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) 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
Antenna	
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°

Hardware Specifications

Model	RG-EST350 V2
Applicable Scenarios	
Applicable Scenarios	CCTV
System Specifications	
CPU	Dual-core processor, 880 MHz clock frequency per core
Flash memory	8 MB
RAM	128 MB DDR3
Dimensions and Weight	
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)	132 mm x 48 mm x 230 mm (5.20 in. x 1.89 in. x 9.06 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
Certification and Regulatory Compliance	
Safety compliance	EN62368-1
EMC	EN 55032
	EN 55035
	EN 61000-3-3
	EN 61000-3-2
	EN 301489-1

Hardware Specifications

Model	RG-EST350 V2
	EN 301489-3
	EN 301489-17
Certification	CE, FCC, CB, ISED, cTUVus

Software Specifications

Model	RG-EST350 V2
Security	
Broadcast storm control	Yes
IP Service	
IPv4 ping	Yes
IPv4 traceroute	Yes
DHCP server	Yes
DHCP client	Yes
WLAN	
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
5 MHz offset	No
Random security key upon configuration delivery	No

Software Specifications

Model	RG-EST350 V2
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
Recommended 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
Ethernet Switching	
Interface rate	10/100/1000 Mbps auto-negotiation
VLAN	Yes

Software Specifications

Model	RG-EST350 V2
Link aggregation	No
Network Management and Monitoring	
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
Basic Configurations	

Software Specifications

Model	RG-EST350 V2
eWeb login with the username and password	Yes
Local upgrade	Yes
Configuration backup	Yes
System language	Chinese (Simplified), English
System time settings	Yes

Package Contents

Model	RG-EST350 V2
Accessories	
Hose clamp	2
Power adapter	2 Note: 24 V passive PoE adapter
Power cord	2
Mounting bracket	2 x Ball joint mount 2 x Lock ring 2 x Mounting Bracket
Screw	6 x Wall anchors 8 x Phillips pan head screws (self-tapping screws 4.2 mm x 19 mm)
Device	
Device	2
Manual	
User Manual	1
Warranty Card	1

Ruijie | ReYee

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Ruijie Networks Co., Ltd.

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