

# RG-EST350G

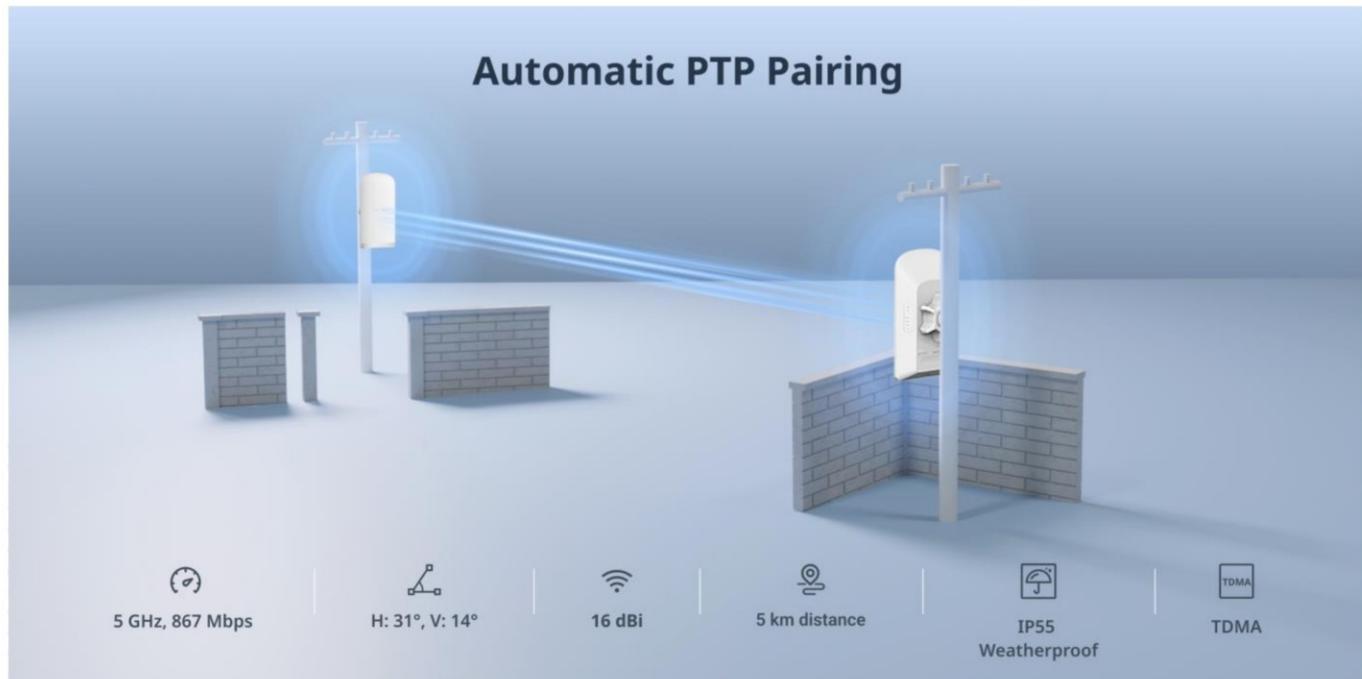
## 5 km, 16 dBi Wireless Bridge



### Highlights

- 3 x GE Ports
- Support 3 Power Supply Options: 12 V DC, Passive PoE, 802.3af/at
- Automatic PTP Pairing
- One-Touch Pairing for PTMP Mode
- Support TDMA
- Support SON

# Highlight Features



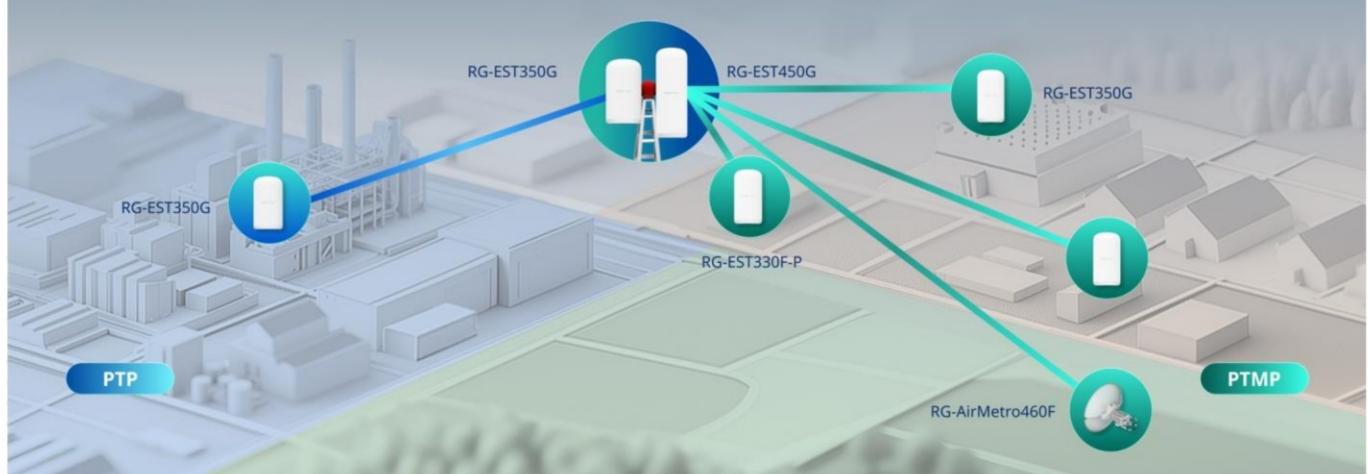
# Highlight Features

## Triple Power Input Options for Flexible Deployment



## Bridging for TDMA-Powered Devices of Different Series

The new EST and AirMetro can be mixed for bridging with TDMA enabled



# Highlight Features

Cloud, Make Your Business Easy

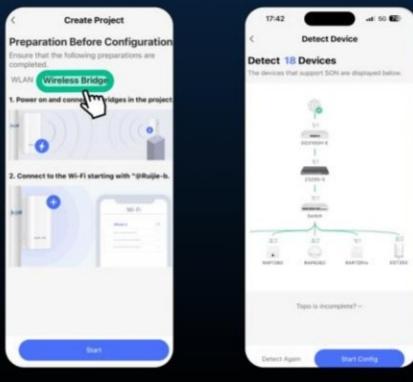
SON

Alignment Tool

Spectrum Scan

Monitoring & Configuration

Quick Self-Organizing Network for Bridge



## Product Information

Model	RG-EST350G
Product Type	Bridge
Accessory	No

## Hardware Specifications

Model	RG-EST350G
<strong>Applicable Scenarios</strong>	
Applicable Scenarios	CCTV
<strong>Wi-Fi Radio</strong>	
Radio design	Dual-radio 3 spatial streams <ul style="list-style-type: none"><li>Radio 1: 2.4 GHz, 1 spatial stream: 1 x 1, SISO</li><li>Radio 2: 5 GHz, 2 spatial streams: 2 x 2, MIMO</li></ul>
Operating band	IEEE 802.11b/g/n: 2.400 GHz to 2.483 GHz 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/b/g/n standards
2.4 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11b/g/n)
5 GHz Wi-Fi	Wi-Fi 5 (IEEE 802.11ac)
2.4 GHz channel width	Auto/20/40 MHz
5 GHz channel width	Auto/20/40/80 MHz
Transmission rate	Maximum wireless data rate: 1166 Mbps <ul style="list-style-type: none"><li>Radio 1: 2.4 GHz, 300 Mbps</li><li>Radio 2: 5 GHz, 866 Mbps</li></ul>
Maximum transmit power	Frequency bands and maximum Effective Isotropic Radiated Power (EIRP):

# Hardware Specifications

Model	RG-EST350G
	<p>Note: Country specific restrictions apply.</p> <p>European Union &amp; United Kingdom:</p> <p>2400–2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>Myanmar:</p> <p>2400–2483.5 MHz, EIRP ≤ 23 dBm</p> <p>5725–5850 MHz, EIRP ≤ 30 dBm</p> <p>Thailand:</p> <p>2400–2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>5725–5850 MHz, EIRP ≤ 30 dBm</p> <p>Indonesia:</p> <p>2400–2483.5 MHz, EIRP ≤ 36 dBm</p> <p>5725–5825 MHz, EIRP ≤ 36 dBm</p> <p>Egypt:</p> <p>2400–2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>Vietnam:</p> <p>2400–2483.5 MHz, EIRP ≤ 23 dBm</p> <p>5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>5725–5850 MHz, EIRP ≤ 30 dBm</p>
<b>Maximum transmit power (2.4 GHz)</b>	<p>Combined power: 20 dBm (single stream power: 20 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
<b>Maximum transmit power (5 GHz)</b>	<p>Combined power: 29 dBm (single stream power: 26 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
<b>Receive sensitivity</b>	<p>802.11b: -91 dBm (1 Mbps), -88 dBm (5 Mbps), -85 dBm (11 Mbps)</p> <p>802.11a/g: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps)</p> <p>802.11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15</p> <p>802.11ac HT20: -83 dBm (MCS0), -57 dBm (MCS9)</p> <p>802.11ac HT40: -79 dBm (MCS0), -54 dBm (MCS9)</p> <p>802.11ac HT80: -76 dBm (MCS0), -51 dBm (MCS9)</p>
<b>Modulation</b>	<p>802.11b: BPSK, QPSK, CCK</p> <p>802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM</p> <p>802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</p>
<b>Highest QAM order</b>	256
	<b>Antenna</b>

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Model	RG-EST350G
Antenna	2.4 GHz: 1 x 1 Built-in omnidirectional antenna 5 GHz: 2 x 2 Built-in directional antenna, horizontal: 31°, vertical: 14°
Antenna gain (2.4 GHz)	2 dBi
Antenna gain (5 GHz)	16 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	16 MB
RAM	128 MB DDR3
<b>Dimensions and Weight</b>	
Weight	0.56 kg (1.24 lbs) (without packaging materials)
Shipping weight	2.55 kg (5.62 lbs)
Product dimensions (W x D x H)	133mm x 108 mm x 240 mm (5.24 in. x 4.25 in. x 9.45 in.) (excluding mounting bracket)
Package dimensions (W x D x H)	394 mm x 311 mm x 104 mm (15.51 in. x 12.24 in. x 4.09 in.)
Color	Elegant white
<b>Port Specifications</b>	
Number of fixed LAN ports	3
Number of 10/100/1000BASE-T ports	3
Reset button	1
LEDs	1 x system status LED 3 x Ethernet port LEDs 3 x signal status LEDs
<b>Power Supply and Consumption</b>	
Power supply	Power supply options: <ul style="list-style-type: none"><li>DC power adapter</li><li>Passive PoE injector</li></ul>

# Hardware Specifications

Model	RG-EST350G
<b>Power input</b>	<p>DC power adapter:</p> <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> </ul> <p>Output:</p> <ul style="list-style-type: none"> <li>Rated output voltage: 24 V DC</li> <li>Maximum output current: 0.6 A</li> </ul> <p>Passive PoE injector:</p> <ul style="list-style-type: none"> <li>Rated input voltage: 24 V DC</li> <li>Rated input current: 0.6 A</li> </ul> <p>Output:</p> <ul style="list-style-type: none"> <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>Number of PoE/PoE+ In ports</b>	1
<b>Local power supply</b>	Yes, one DC power connector (12 V, 1.2 A)
<b>Dimensions of the DC connector</b>	<p>Outer Diameter: 5.50 mm <math>\pm</math> 0.05 mm (0.22 in. <math>\pm</math> 0.002 in.)</p> <p>Inner Diameter: 2.10 mm <math>\pm</math> 0.05 mm (0.08 in. <math>\pm</math> 0.002 in.)</p> <p>Depth: 9 mm (0.35 in.)</p>
<b>Maximum power consumption</b>	12 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 +85°C (-40°F to +185°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>	<p>Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)</p> <p>Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)</p>
<b>MTBF</b>	400,000 hours (about 45 years)
<b>Cooling</b>	Natural cooling
<b>IP rating</b>	IP55

# Hardware Specifications

Model	RG-EST350G
ESD protection	Standard test: contact discharge=8 kV, air discharge=15 kV, Class B
Surge protection	Service port: $\pm 4$ kV for common mode Power connector: $\pm 4$ kV for common mode and $\pm 2$ kV differential mode
<b>Certification and Regulatory Compliance</b>	
Safety compliance	EN62368-1
EMC	EN 55032 EN 55035 EN 61000-3-3 EN 61000-3-2 EN 301489-1 EN 301489-3 EN 301489-17
Certification	CE, CB

# Software Specifications

Model	RG-EST350G
WLAN	
<b>BaseStation/CPE mode switching</b>	Yes
<b>Enhanced one-to-many transmission (TDMA)</b>	Yes
<b>Bridge SSID hiding</b>	Yes
<b>WPA2-PSK encryption</b>	Yes
<b>WPA-PSK encryption</b>	No
<b>WPA/WPA2-PSK encryption</b>	No
<b>Recommended channel</b>	Yes
<b>Bridge speed test</b>	Yes
<b>Random security key upon configuration delivery</b>	No
<b>Configuring a security key for network-wide bridges</b>	Yes
<b>Configuring a security key for a single bridge group</b>	Yes
<b>Configuring a security key for a single bridge</b>	Yes
<b>Bridge SSID, channel, and power configuration</b>	Yes
<b>WMM</b>	Yes
<b>Maximum PTMP connections</b>	16
<b>Maximum bridge distance</b>	5 km (3.11 miles)
<b>One-touch pairing</b>	Yes
<b>Maximum effective distance of one-touch pairing</b>	50 m (160.04 ft.)
<b>Bridge performance</b>	230 Mbps/1 km (0.62 miles) (HT40) 200 Mbps/3 km (1.86 miles) (HT40) 150 Mbps/5 km (3.11 miles) (HT40)
<b>RSSI</b>	- 56 dBm/1 km (0.62 miles) - 64 dBm/3 km (1.86 miles) - 68 dBm/5 km (3.11 miles)

# Software Specifications

Model	RG-EST350G
<b>Recommended number of connected cameras (3 Mbps)</b>	50/1 km (0.62 miles) 45/3 km (1.86 miles) 20/5 km (3.11 miles)
<b>Recommended number of connected cameras (4 - 5 Mbps)</b>	30/1 km (0.62 miles) 25/3 km (1.86 miles) 12/5 km (3.11 miles)
<b>Recommended number of connected cameras (6 - 7 Mbps)</b>	20/1 km (0.62 miles) 13/3 km (1.86 miles) 8/5 km (3.11 miles)
<b>Recommended number of connected cameras ( 7-8 Mbps code streams)</b>	15/1 km (0.62 miles) 12/3 km (1.86 miles) 6/5 km (3.11 miles)
<b>Real-time signal strength</b>	Yes
<b>Optimal signal strength</b>	Yes
<b>Active/Standby channel</b>	Yes
<b>Restoring to the active channel</b>	Yes
<b>Maximum number of devices on the SON</b>	200
<b>Basic Configurations</b>	
<b>eWeb login with the username and password</b>	Yes
<b>Local upgrade</b>	Yes
<b>Configuration backup</b>	Yes
<b>System language</b>	Chinese (Simplified), English
<b>System time settings</b>	Yes
<b>Ethernet Switching</b>	
<b>Interface rate</b>	10/100/1000 Mbps auto-negotiation
<b>VLAN</b>	Yes
<b>Link aggregation</b>	No
<b>IP Service</b>	
<b>IPv4 ping</b>	Yes

# Software Specifications

Model	RG-EST350G
<b>IPv4 traceroute</b>	Yes
<b>DHCP server</b>	Yes
<b>DHCP client</b>	Yes
<b>Security</b>	
<b>Broadcast storm control</b>	Yes
<b>Network Management and Monitoring</b>	
<b>SON</b>	Yes
<b>AI heatmap</b>	Yes
<b>Camera detection</b>	No
<b>Network-wide management SSID configuration</b>	Yes
<b>Network connection through the management SSID</b>	Yes
<b>Ruijie Cloud management</b>	Yes
<b>Restarting devices through Ruijie Reyee App</b>	Yes
<b>SNMPv1, v2c, and v3</b>	Yes
<b>Fault diagnosis</b>	Note: support for network tools (ping, traceroute, and nslookup), fault alarms, and fault collection
<b>Restart cause prompt</b>	Yes
<b>Disconnection cause prompt</b>	Yes
<b>Cloud alarms on DFS signal detection</b>	Yes

## Package Contents

Model	RG-EST350G
<b>Device</b>	
<b>Device</b>	2
<b>Accessories</b>	
<b>Hose clamp</b>	2
<b>Power adapter</b>	2 Note: 24 V/0.6 A DC power adapter
<b>PoE injector</b>	2
<b>Mounting bracket</b>	2 x Ball joint mount 2 x Lock ring 2 x Mounting bracket
<b>Screw</b>	6 x Wall anchors 8 x Phillips pan head screws (self-tapping screws 4.2 mm x 19 mm)
<b>Manual</b>	
<b>User Manual</b>	1
<b>Warranty Card</b>	1

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