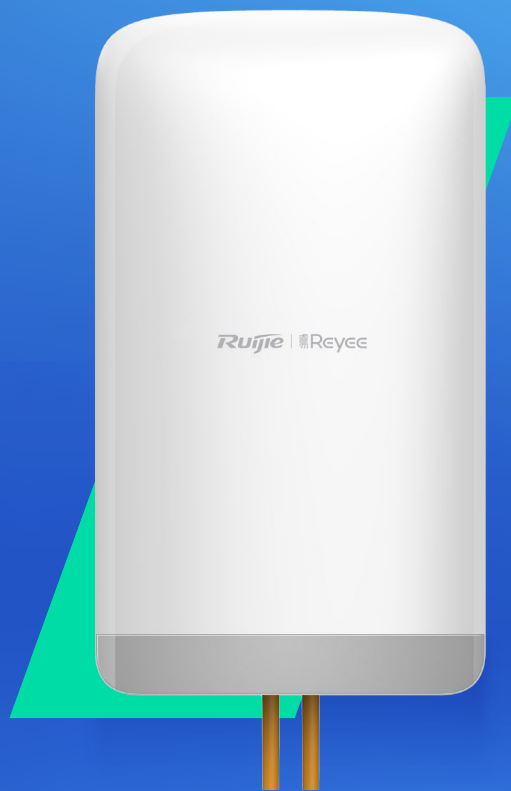


RG-EST350 V2

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

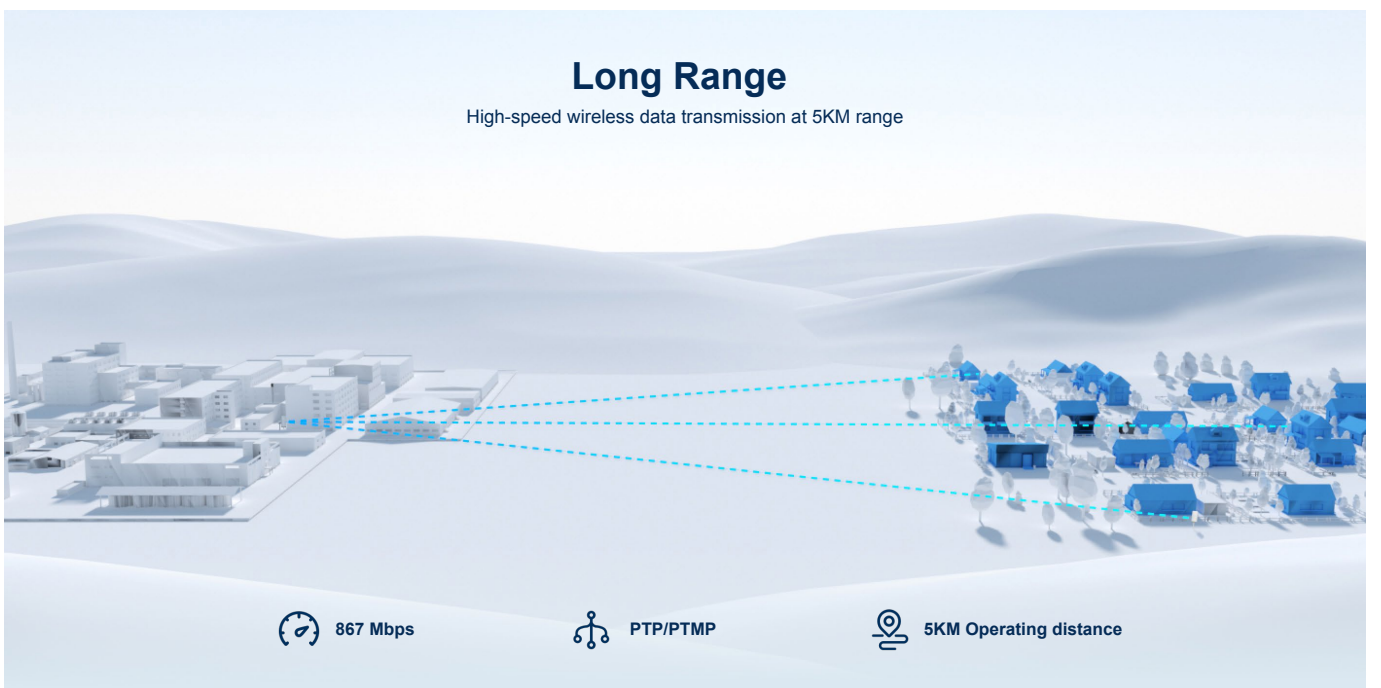
RG-EST350v2

5GHz Dual-stream 802.11ac wave 2 Next-generation Wireless Bridge



Long Range

High-speed wireless data transmission at 5KM range



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

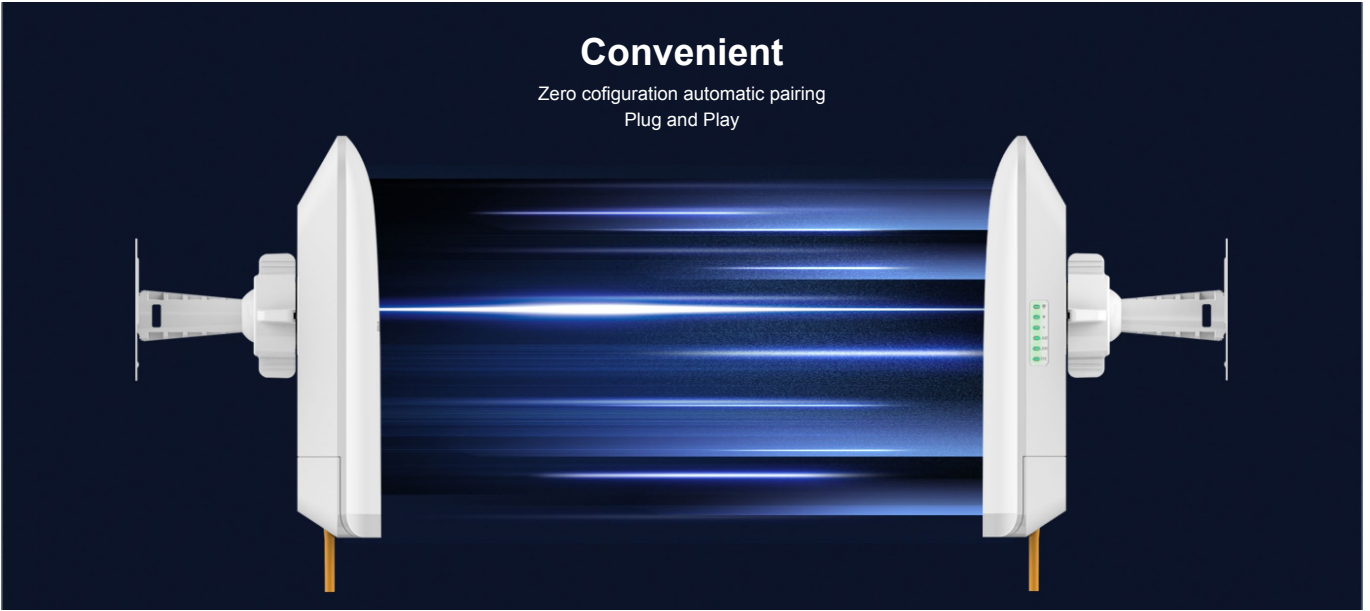


-30~65°C operating
temperature

Highlight Features

Convenient

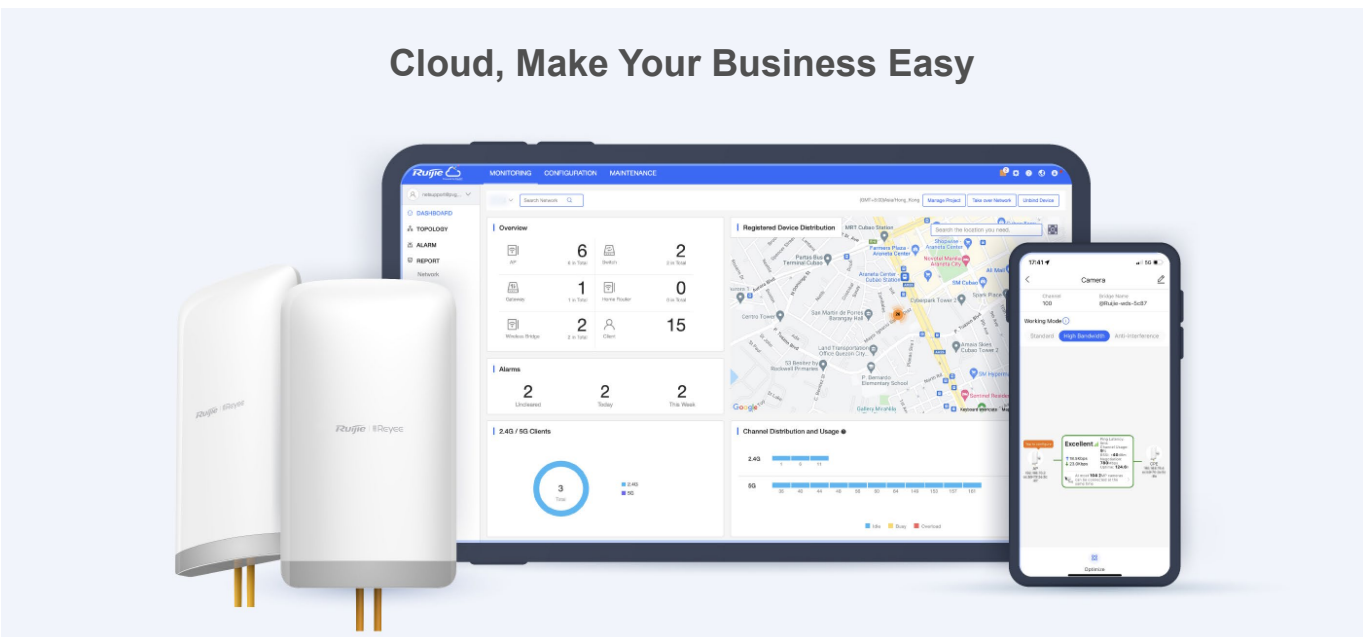
Zero configuration automatic pairing
Plug and Play



Easy to Install



Cloud, Make Your Business Easy



Specifications

Basic

Radio Design	5 GHz Single-Band Dual-Stream
Operating Band	802.11a/n/ac: 5.150~5.350GHz, 5.470~5.725GHz, 5.725~5.850GHz (country specific) United States: 802.11a/n/ac: 5.180~5.240GHz, 5.745~5.825GHz
Transmit Power	EIRP Country-specific restrictions apply: Myanmar: 5150 MHz~5350 MHz ≤ 23 dBm, 5470MHz~5850 MHz ≤ 25 dBm Thailand: 5150 MHz~5350 MHz ≤ 23 dBm, 5470MHz~5725 MHz ≤ 30 dBm, 5725 MHz~5850 MHz ≤ 30 dBm
Antenna	Directional antennas, 15 dBi
Polarization	Horizontal: 31°, Vertical: 14°
Bridging Distance	5 KM (recommended)
Spatial Streams	2x2, MU-MIMO
Memory/Flash	128 MB/8 MB
Maximum Throughput	Up to 867 Mbps at 5 GHz
Ports	2 10/100/1000Base-T Ethernet ports, port 1 with Passive PoE
Max. Transmit Power	≤400 mW (adjustable)
IP Rating	IP54
Lightning Protection	4 KV
Installation	Wall-mounted/ Pole-mounted
Weight	0.5 kg
Dimensions (D x W x H)	230 mm × 132 mm × 48 mm

Software Features

	IPv4
802.1Q VLAN	✓
Multi-VLAN Transparent Transmission	✓

Specifications

Software Features

IPv4

ARP	256
Max. Concurrent Connections	8000
Ping	✓
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	-58 dBm@1KM -66 dBm@3KM -70 dBm@5KM
------	---

Performance 230 Mbps@1KM(HT40)
200 Mbps@3KM(HT40)
150 Mbps@5KM(HT40)

One-Click Optimization	✓
------------------------	---

DFS	✓
-----	---

Local Forwarding	✓
------------------	---

WLAN QoS WMM

Specifications

Software Features

Management

Zero Provisioning on Cloud

QR-Code / Serial Number

CWMP(TR069) Support

✓

Point-to-Point

✓

Point-to-Multipoint

Recommended 3

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

✓

Specifications

Software Features

Camera Reference

3Mbps Video Bit Rate	50 Units/1KM 45 Units/3KM 20 Units/5KM
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4-5Mbps Video Bit Rate	30 Units/1KM 25 Units/3KM 12 Units/5KM
------------------------	--

6Mbps Video Bit Rate	20 Units/1KM 13 Units/3KM 8 Units/5KM
----------------------	---

Hardware Features

Physical Features

LED indicator	LEDs indicate the bridging quality: LED off: No bridging One LED blinking: $< -75\text{dBm}$ One LED on: $-75\text{dBm} < \text{RSSI} < -73\text{dBm}$ One LED on and one LED blinking: $-73\text{dBm} < \text{RSSI} < -71\text{dBm}$ Two LEDs on: $-71\text{dBm} < \text{RSSI} < -68\text{dBm}$ Two LEDs on and one LED blinking: $-68\text{dBm} < \text{RSSI} < -64\text{dBm}$ Three LEDs on: $> -64\text{dBm}$
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Hardware Button	1 reset button
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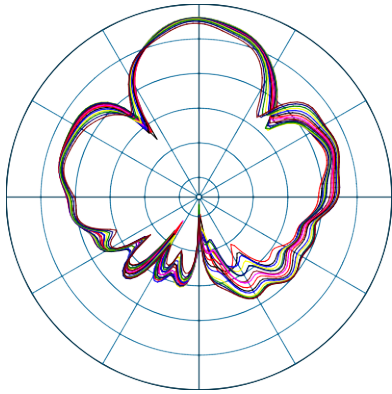
Power Supply	12 VDC power supply or 24 VDC Passive PoE
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Power Consumption	$< 9\text{W}$
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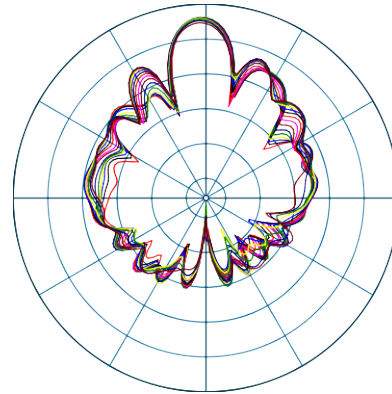
Environment	Operating temperature: -30°C to 65°C (-22°F ~ 149°F) Storage temperature: -40°C to 85°C (-40°F ~ 185°F) Operating humidity: 5% to 95% (noncondensing) Storage humidity: 5% to 95% (noncondensing)
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MTBF	$> 250,000\text{H}$
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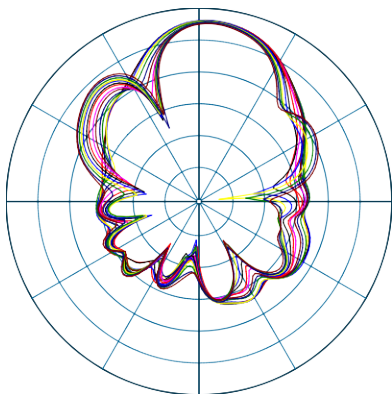
Antenna Polarization



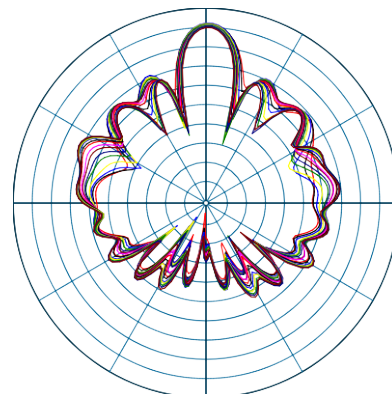
Vertical Azimuth



Vertical Elevation



Horizontal Azimuth



Horizontal Elevation

Package Contents

Device	RG-EST350 V2 * 2
Mounting Bracket	2
Hose Clamps	2
Universal Joint Assemblies	2
Power supply	Passive PoE injector * 2
User Manual	1
Wall Anchors	6
Phillips Pan Head Screws	8
Package Weight	2.3 kg
Package Dimension (w x d x h)	490 mm * 363 mm * 80 mm

Ruijie | Rcycc

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