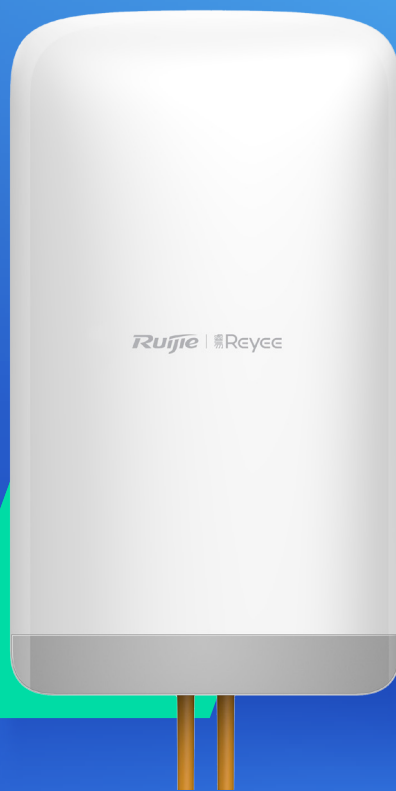# RG-EST350 V2

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
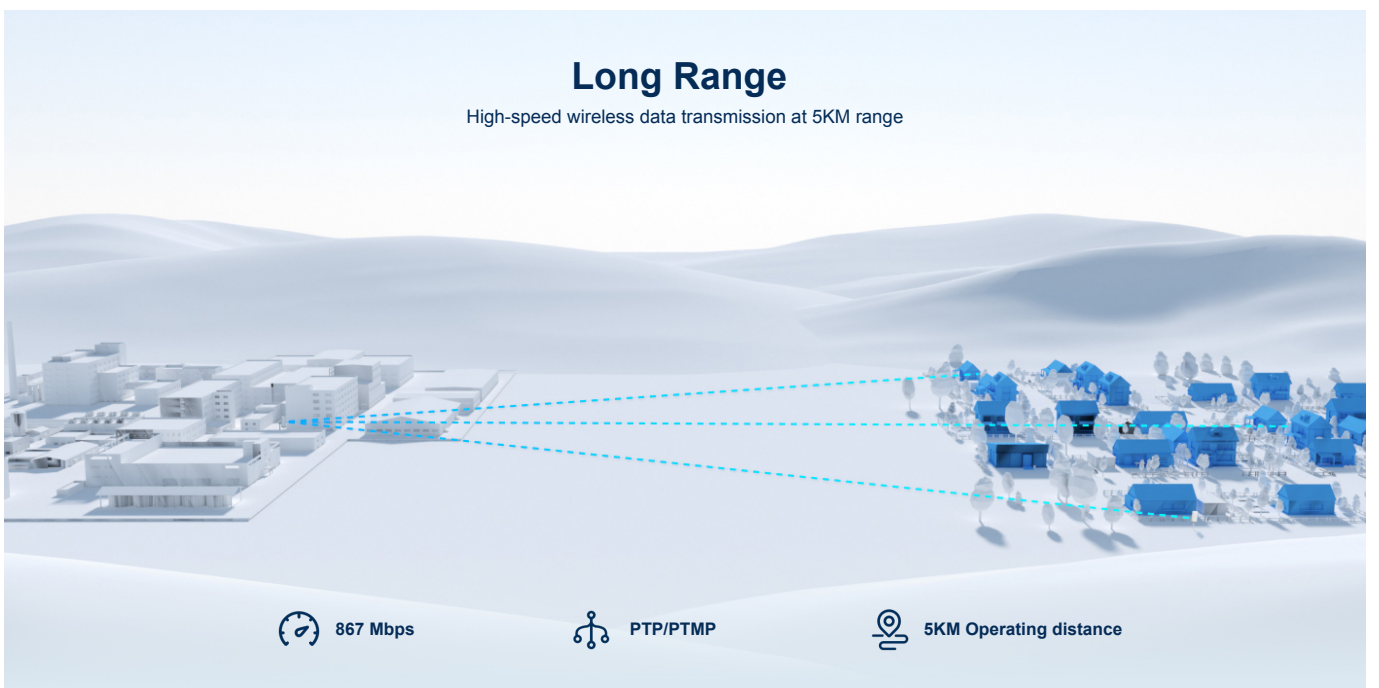
Highlight Features

RG-EST350v2

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

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*

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.
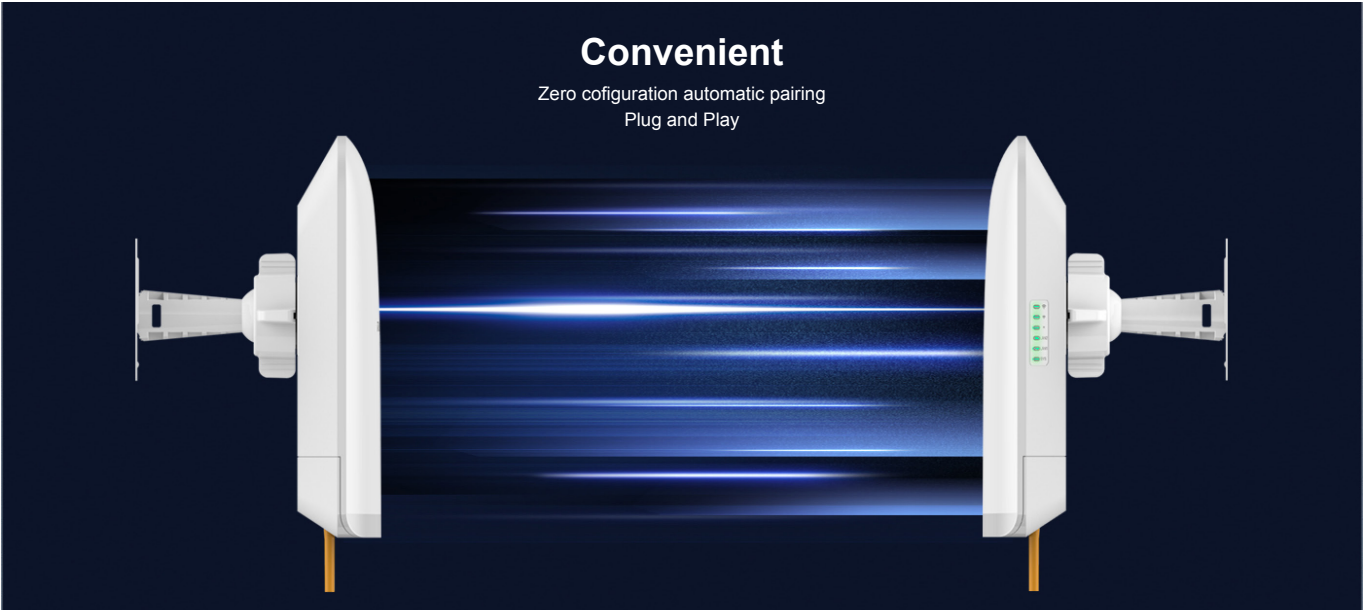
Reliable

V0 level
flame retardant

IP54
Weatherproof

-30~65°C operating
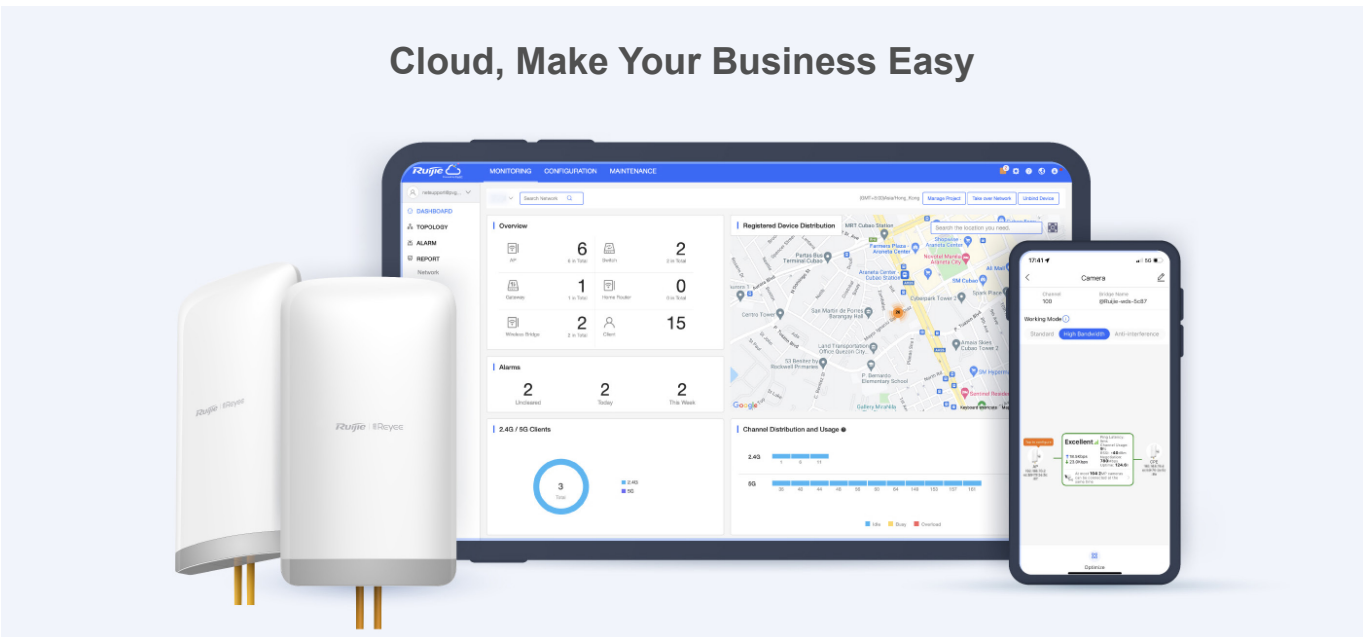temperature

Highlight Features

Convenient

Zero cofiguration 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)
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(26 dBm) (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	✓
ARP	256
Max. Concurrent Connections	8000
Ping	✓
Traceroute	✓

/ Specifications

Software Features		
IPv4		
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
Management		
Zero Provisioning on Cloud		QR-Code / Serial Number
CWMP(TR069) Support		✓
Point-to-Point		✓

/ Specifications

Software Features	
Management	
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	✓
Camera Reference	
3Mbps Video Bit Rate	50 Units/1KM 45 Units/3KM 20 Units/5KM

Specifications

Software Features	
Camera Reference	
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

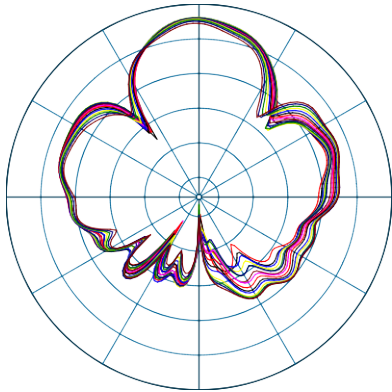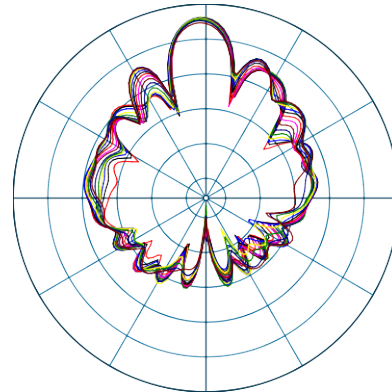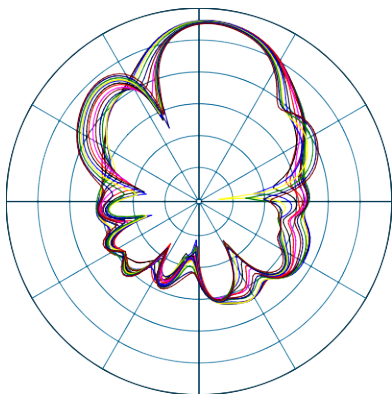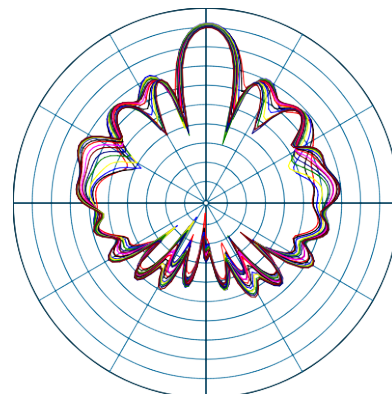| Hardware Features	
Physical Features	
LED indicator	LEDs indicate the bridging quality: LED off: No bridging One LED blinking: <-75dBm One LED on: -75dBm< RSSI <-73dBm One LED on and one LED blinking: -73dBm< RSSI <-71dBm Two LEDs on: -71dBm< RSSI <-68dBm Two LEDs on and one LED blinking: -68dBm< RSSI <-64dBm Three LEDs on: >-64dBm
Hardware Button	1 reset button
Power Supply	12 VDC power supply or 24 VDC Passive PoE
Power Consumption	< 9W
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)
MTBF	> 250,000H

/ 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	Power adapter * 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

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Redefine **y**our **e**asy n**e**twork