

RG-EST310 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-EST310 V2

5GHz Single-band Dual-stream 802.11ac Wireless Bridge



2x2 MIMO 5GHz 2x2 MIMO **1 x FE Port**

Not Limited to 1KM

Wireless bridge expert for CCTV scenario



867 Mbps **PTP/PTMP**

Highlight Features

Strong Adaptability and High Scalability



V0 Level
Flame Retardant



IP54
Weatherproof



-30 to 55°C Operating
Temperature

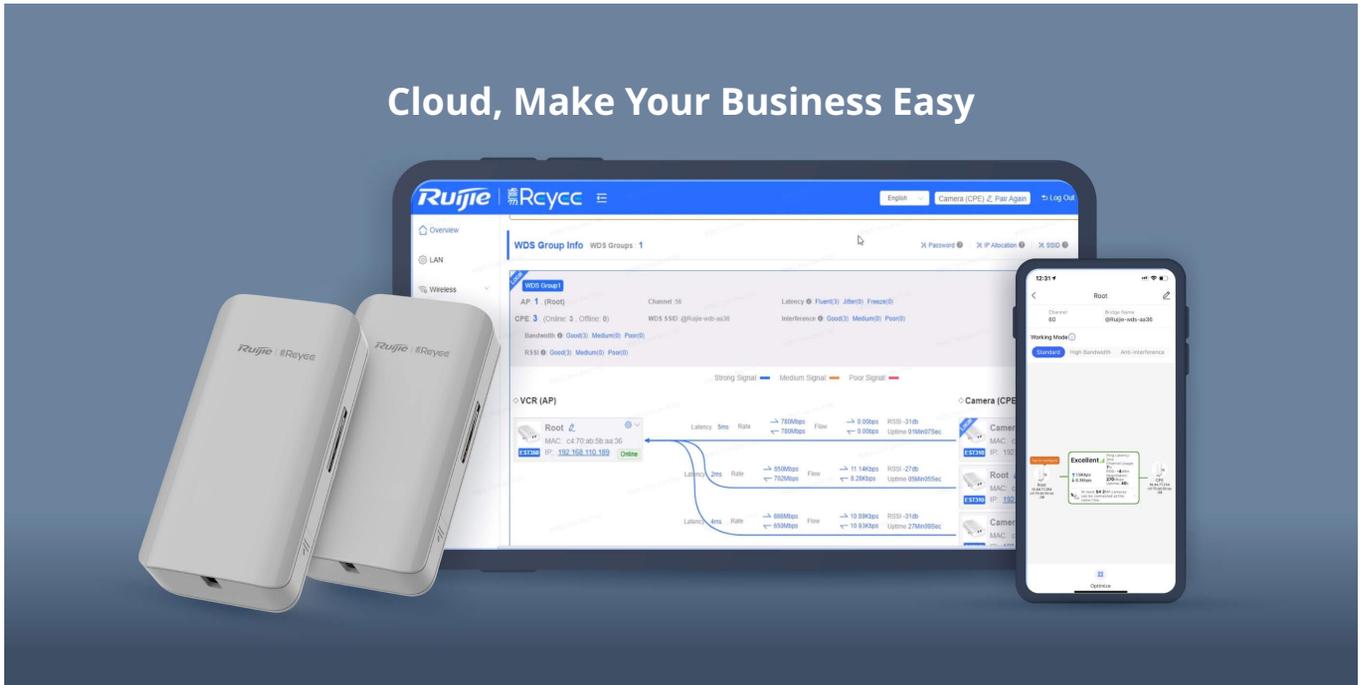
High Quality High Performance

RG-EST310 V2 has adopted the new high-performance 5GHz single-band dual-stream chip solution, which offers up to 867Mbps wireless transmit rate and significantly enhances the efficiency and stability of network bridge data transmission.



Highlight Features

Cloud, Make Your Business Easy



Specifications

Basic

| | |
|------------------------|---|
| Radio Design | 5 GHz Single-Band Dual-Stream |
| Transmission Protocol | IEEE 802.11 ac/n/a |
| Operating Band | 802.11a/n/ac: 5.150~5.350GHz, 5.470~5.725GHz, 5.725~5.850GHz (country specific) Note: Allowable frequencies and bands are dictated by individual country regulations. Thailand product does not support 5.150-5.350GHz outdoors. |
| Antenna | Directional antennas, 10 dBi |
| Polarization | Horizontal: 60°, Vertical: 30° |
| Bridging Distance | 3 KM (recommended) |
| Spatial Streams | 2x2, MU-MIMO |
| Memory/Flash | 64 MB/8 MB |
| Maximum Throughput | Up to 867 Mbps at 5 GHz |
| Ports | 1 10/100Base-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 | 0.35 kg |
| Dimensions (D x W x H) | 147 mm x 76 mm x 37 mm |

Software Features

| IPv4 | |
|-------------------------------------|------|
| 802.1Q VLAN | ✓ |
| Multi-VLAN Transparent Transmission | ✓ |
| ARP | 256 |
| Max. Concurrent Connections | 8000 |
| Ping | ✓ |

Specifications

Software Features

IPv4

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 -52/100M
-65/500M
-68/1KM
-75/2KM

Performance 90Mbps/100M(HT40)
80Mbps/500M(HT40)
80Mbps/1KM(HT40)
40Mbps/2KM(HT40)

One-Click Optimization ✓

DFS ✓

Local Forwarding ✓

WLAN QoS WMM

Management

Zero Provisioning on Cloud QR-Code / Serial Number

CWMP(TR069) Support ✓

Specifications

Software Features

Management

Point-to-Point



Point-to-Multipoint

Recommended 5

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

16 Units/100M
16 Units/500M
16 Units/1KM
6 Units/2KM

Specifications

Software Features

Camera Reference

| | |
|------------------------|---------------|
| 4-5Mbps Video Bit Rate | 10 Units/100M |
| | 10 Units/500M |
| | 10 Units/1KM |
| | 4 Units/2KM |

| | |
|----------------------|--------------|
| 6Mbps Video Bit Rate | 7 Units/100M |
| | 7 Units/500M |
| | 7 Units/1KM |
| | 3 Units/2KM |

Hardware Features

Physical Features

| | |
|---------------|--|
| LED indicator | LEDs indicate the bridging quality: LED off: No bridging LED blinking: $\leq -78\text{dBm}$ One LED on: $-78\text{dBm} < \text{RSSI} \leq -72\text{dBm}$ Two LEDs on: $-72\text{dBm} < \text{RSSI} \leq -65\text{dBm}$ Three LEDs on: $> -65\text{dBm}$ |
|---------------|--|

| | |
|-----------------|----------------|
| Hardware Button | 1 reset button |
|-----------------|----------------|

| | |
|--------------|---|
| Power Supply | 12 VDC power supply or 24 VDC Passive PoE |
|--------------|---|

| | |
|-------------------|---------------|
| Power Consumption | $< 7\text{W}$ |
|-------------------|---------------|

| | |
|-------------|--|
| Environment | Operating temperature: -30°C to 55°C (-22°F ~ 131°F) Storage temperature: -40°C to 70°C (-40°F ~ 158°F) Operating humidity: 5% to 95% (noncondensing) Storage humidity: 5% to 95% (noncondensing) |
|-------------|--|

| | |
|------|---------------------|
| MTBF | $> 400,000\text{H}$ |
|------|---------------------|

Package Contents

| | |
|-------------------------------|--------------------------|
| Device | RG-EST310 V2 * 2 |
| Mounting Bracket | 2 |
| Hose Clamps | 4 |
| Power supply | Power adapter * 2 |
| User Manual | 1 |
| Wall Anchors | 4 |
| Phillips Pan Head Screws | 8 |
| Package Weight | 1.35 kg |
| Package Dimension (w x d x h) | 400*231*88mm |

Ruijie | Rcycc

 **Redefine your easy network**

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