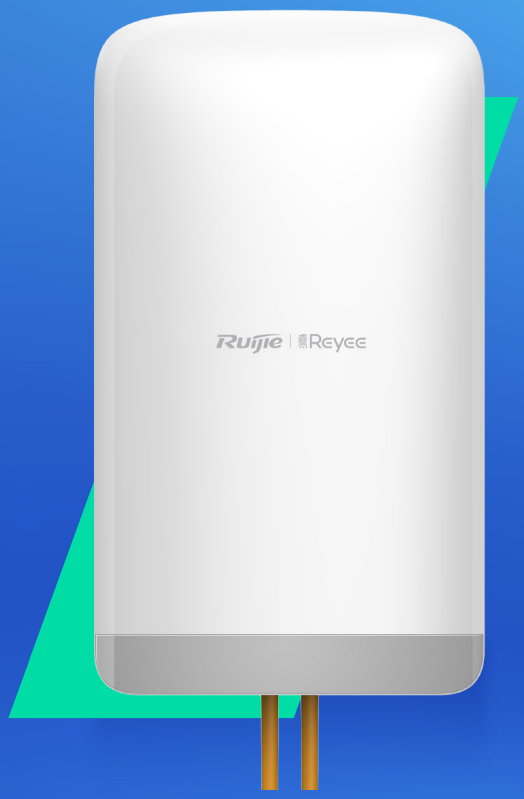
Ruijie | Reyee

# RG-EST350 V2

## 5GHz Dual-stream 802.11ac 5KM Wireless Bridge

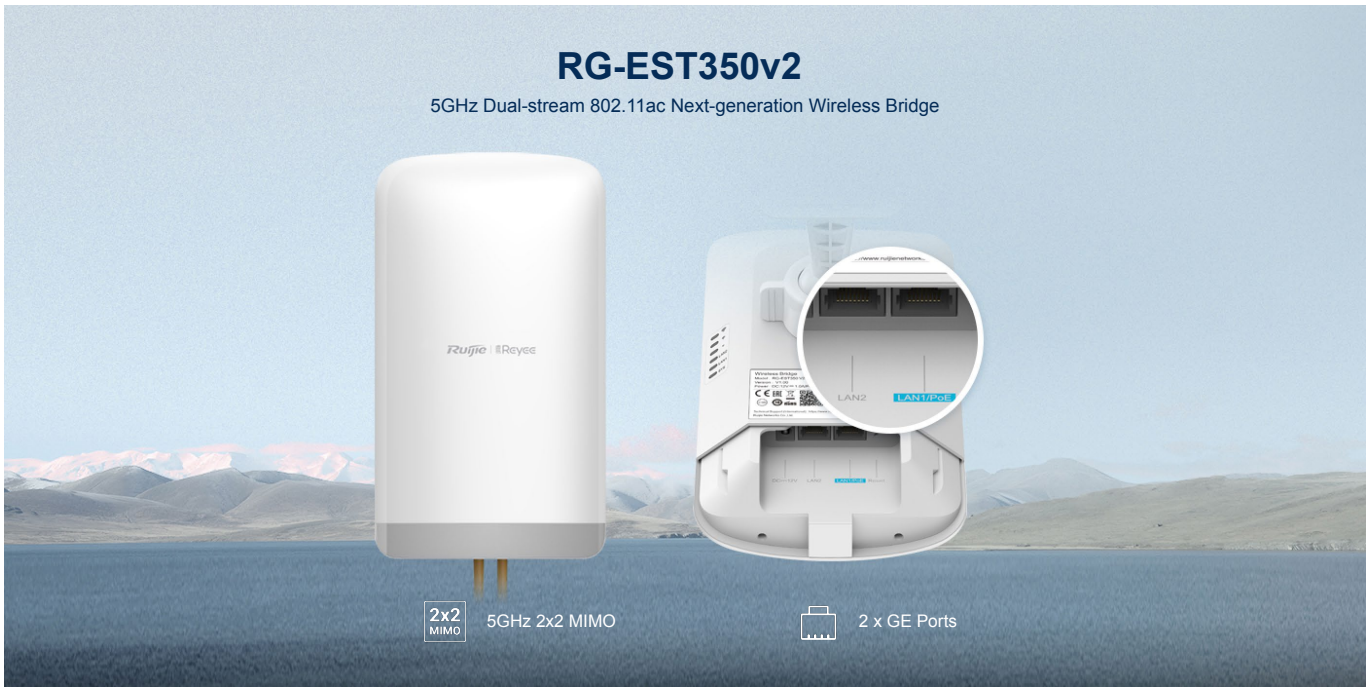
DATASHEET

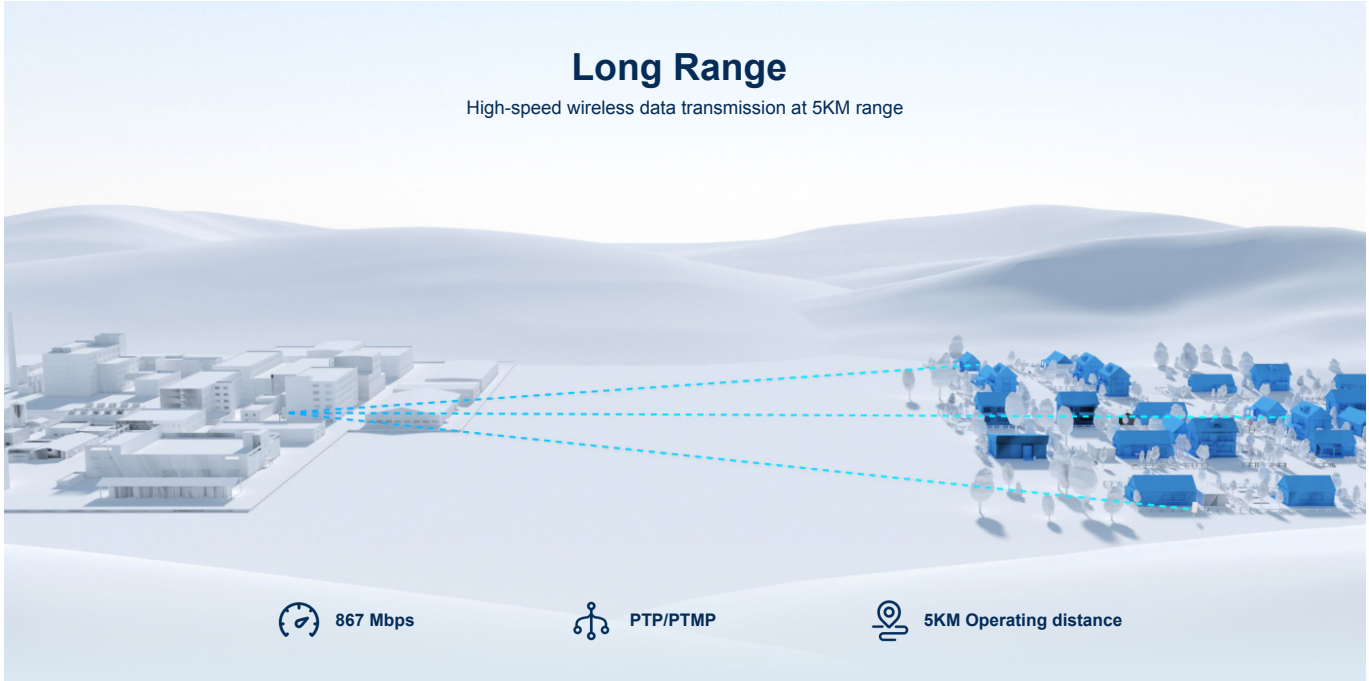



## Highlights

- 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



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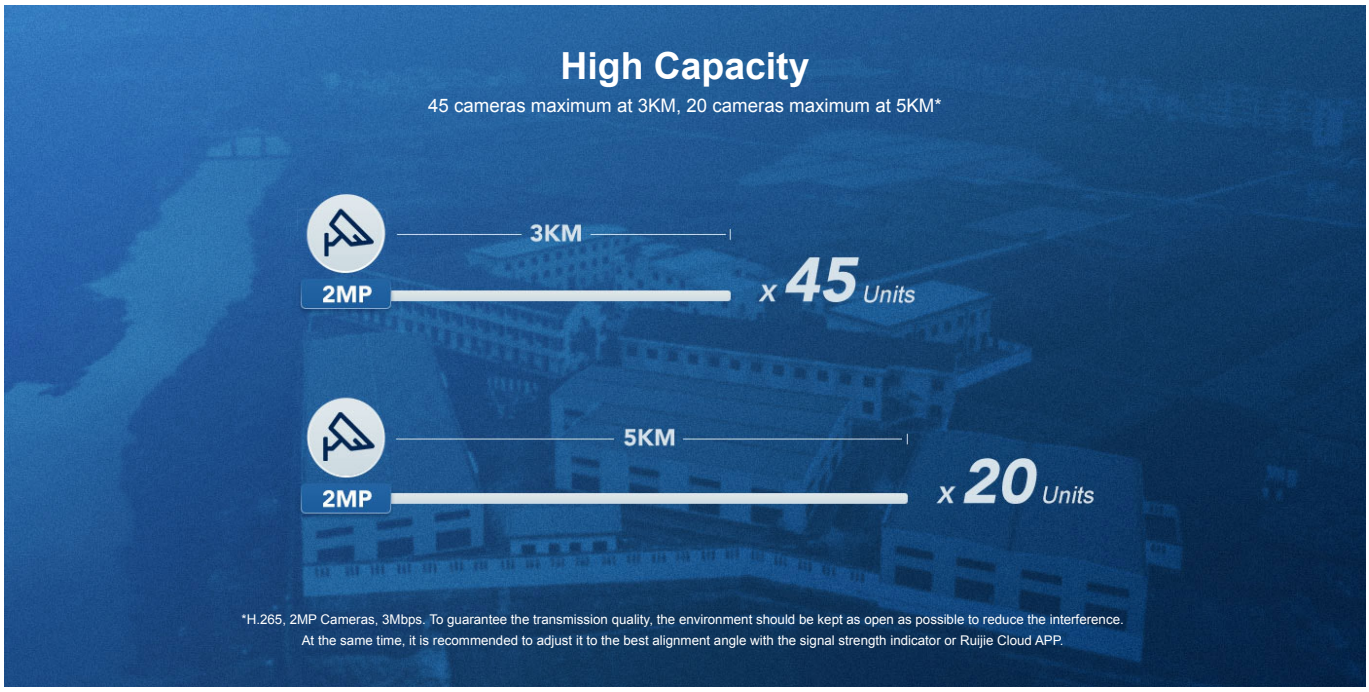
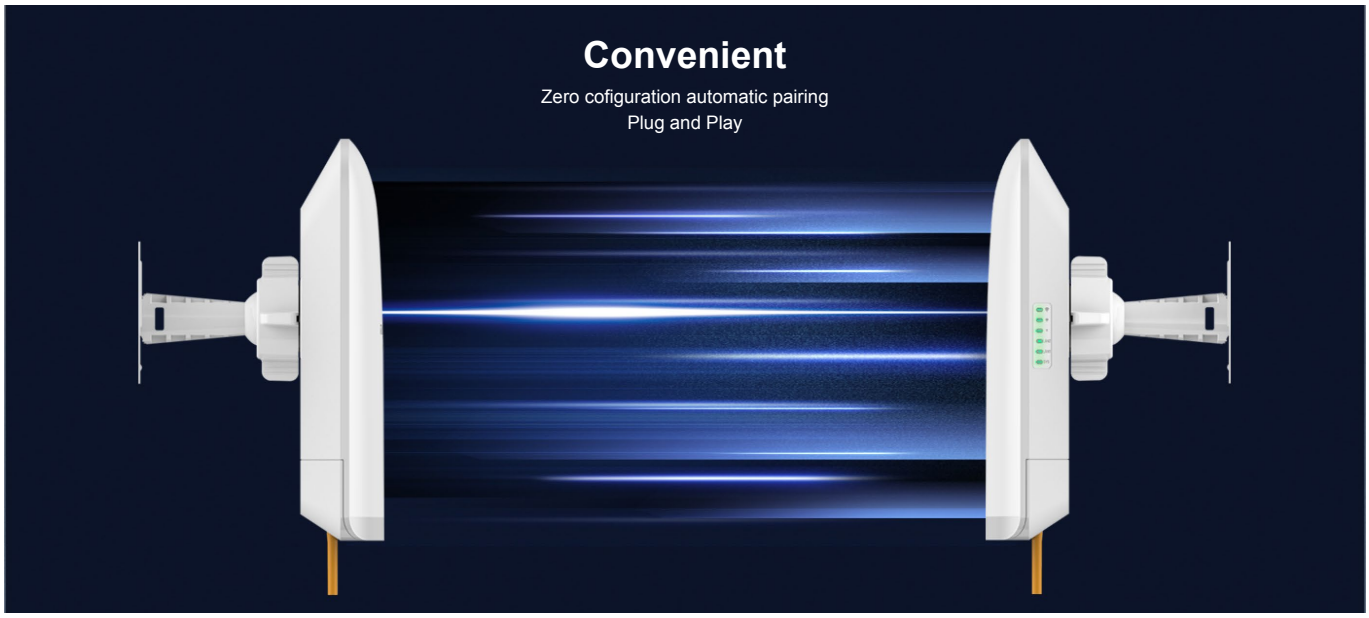
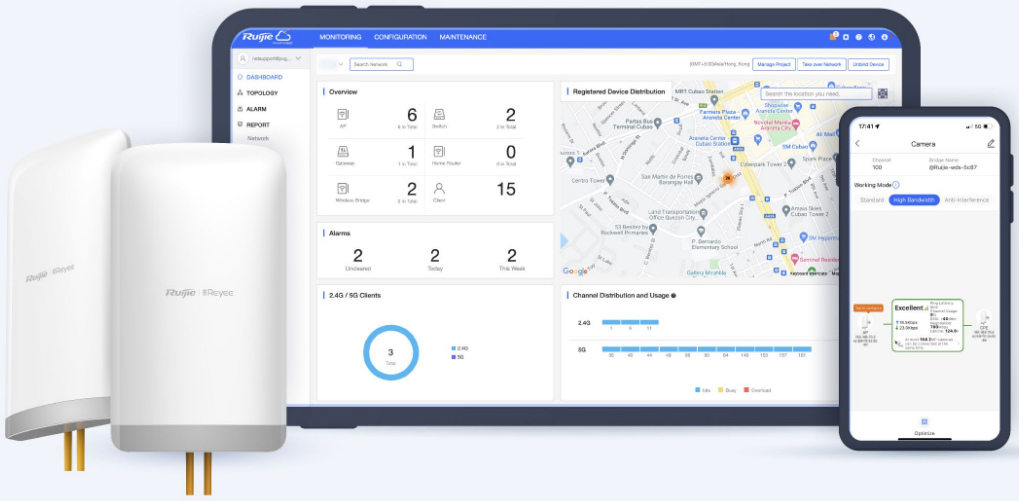


# Highlight Features



## 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)<br>United States: 802.11a/n/ac: 5.180~5.240GHz , 5.745~5.825GHz |
| Transmit Power | EIRP<br>Country-specific restrictions apply:<br>Myanmar: 5150 MHz~5350 MHz ≤ 23 dBm, 5470MHz~5850 MHz ≤ 25 dBm<br>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<br>-66 dBm@3KM<br>-70 dBm@5KM |
| Performance | 230 Mbps@1KM(HT40)<br>200 Mbps@3KM(HT40)<br>150 Mbps@5KM(HT40) |
| One-Click Optimization | ✓ |
| DFS | ✓ |
| Local Forwarding | ✓ |
| WLAN QoS | WMM |

# Specifications

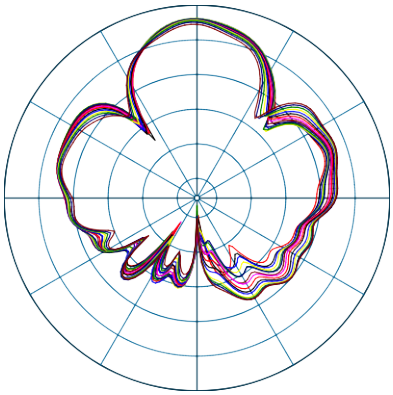
| Software Features | |
|---|---|
| | |
| **Management** | |
| Zero Provisioning on Cloud | QR-Code / Serial Number |
| CWMP(TR069) Support | ✓ |
| Point-to-Point | ✓ |
| Point-to-Multipoint | Recommended 3 |
| Self-Organizing Network | Max. 200 wireless bridges |
| AP/CPE Switchover | ✓ |
| Interface 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

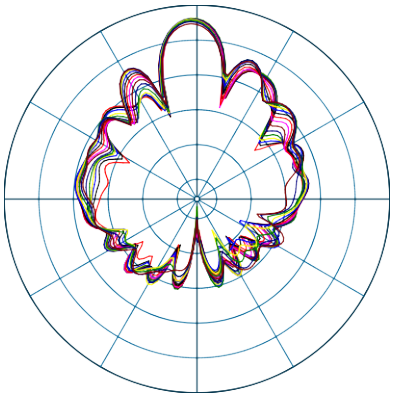
| Software Features | |
|---|---|
| **Camera Reference** | |
| 3Mbps Video Bit Rate | 50 Units/1KM<br>45 Units/3KM<br>20 Units/5KM |
| 4-5Mbps Video Bit Rate | 30 Units/1KM<br>25 Units/3KM<br>12 Units/5KM |
| 6Mbps Video Bit Rate | 20 Units/1KM<br>13 Units/3KM<br>8 Units/5KM |

| Hardware Features | |
|---|---|
| **Physical Features** | |
| LED indicator | LEDs indicate the bridging quality:<br>LED off: No bridging<br>One LED blinking: <-75dBm<br>One LED on: -75dBm< RSSI <-73dBm<br>One LED on and one LED blinking: -73dBm< RSSI <-71dBm<br>Two LEDs on: -71dBm< RSSI <-68dBm<br>Two LEDs on and one LED blinking: -68dBm< RSSI<br><-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)<br>Storage temperature: -40°C to 85°C (-40°F ~ 185°F)<br>Operating humidity: 5% to 95% (noncondensing)<br>Storage humidity: 5% to 95% (noncondensing) |
| MTBF | > 250,000H |

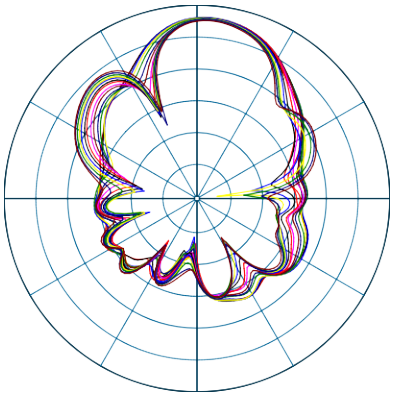
## Antenna Polarization



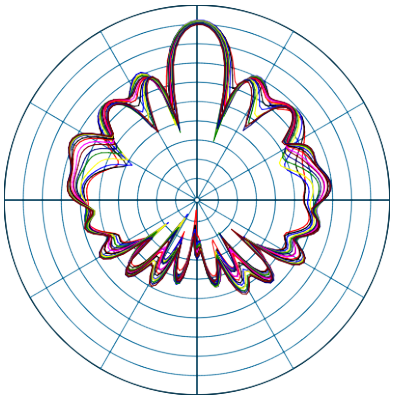
Vertical Azimuth



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** |

Redefine your easy network

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