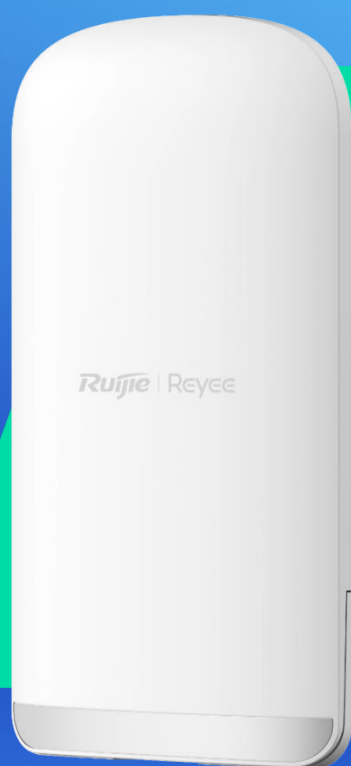# Ruijie | Reyee

# RG-EST330F-P
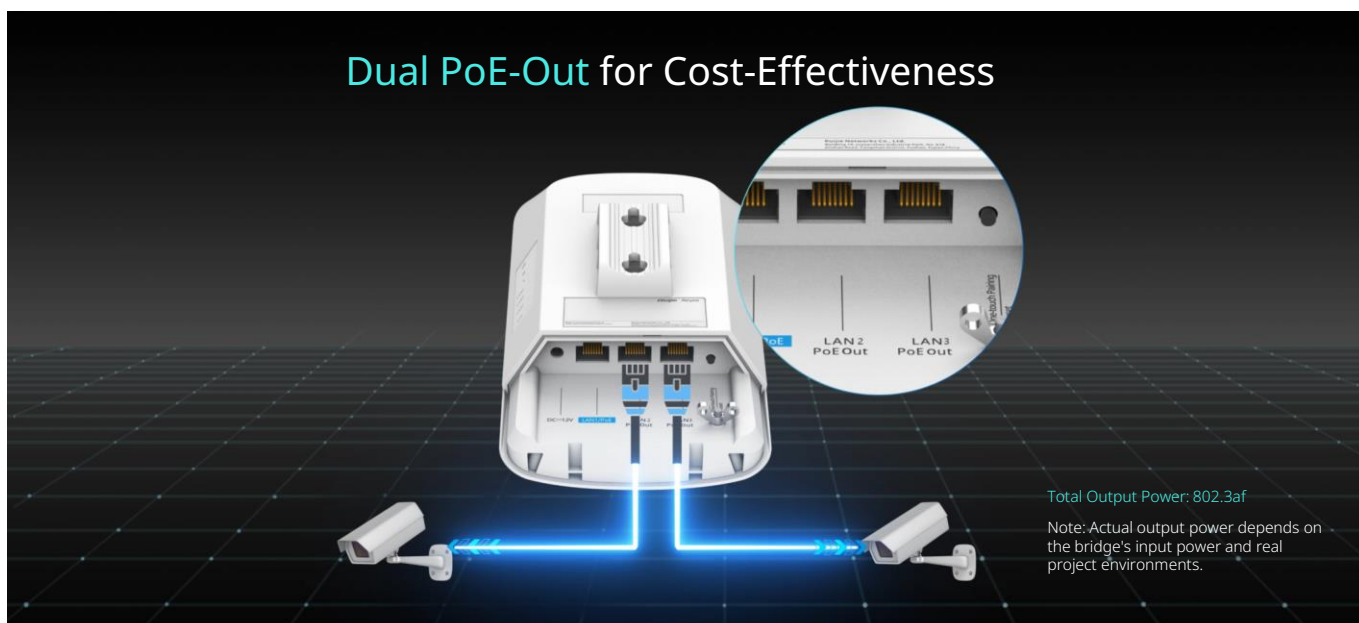## 5 GHz, PTP/PTMP Wireless Bridge With 3 x 10/100 Mbps Ports

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## Highlights

- RG-EST330F-P has 2 x PoE Out Ports;

- Supports 3 power supply options: 802.3af/at, Passive PoE, DC;

- Supports TDMA;

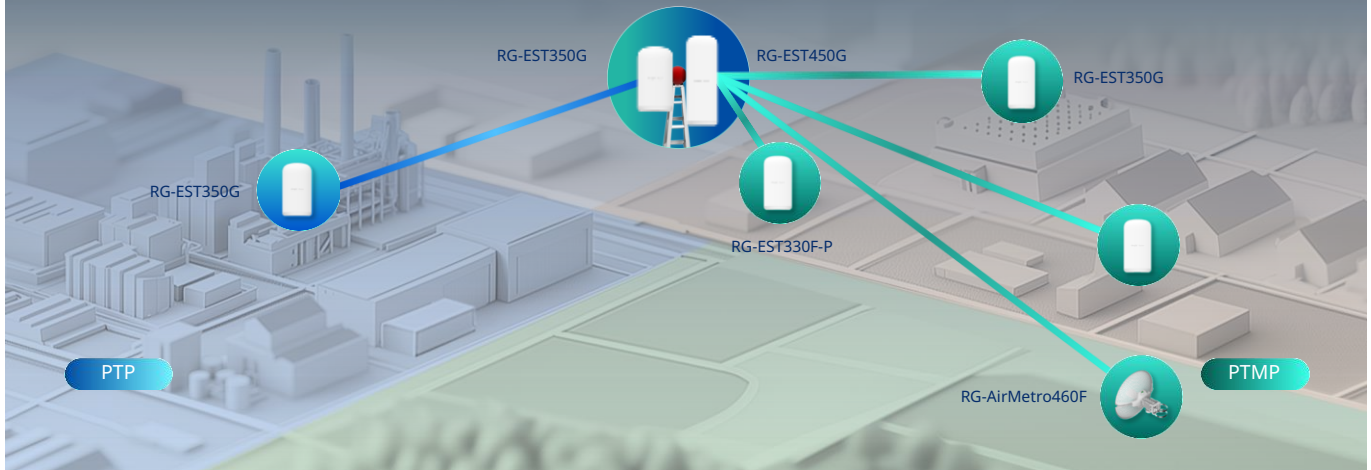- Supports Self-Organizing Network.

# Highlight Features

## RG-EST330F-P

### 3 km Working Distance EST Bridge

| 13 dBi | 5 GHz, 867 Mbps | H: 30°, V: 30° | 3 km | TDMA | IP55 Weatherproof |

## Triple Power Input Options for Flexible Deployment

12 V DC
Solar Power Supply

802.3af/at

or

or

Passive PoE

3 x FE Ports     3-Year Warranty

## Dual PoE-Out for Cost-Effectiveness

LAN 2 PoE Out    LAN 3 PoE Out

Total Output Power: 802.3af

Note: Actual output power depends on the bridge's input power and real project environments.

# Highlight Features

## Bridging for TDMA-Powered Devices of Different Series

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

RG-EST350G

RG-EST350G

RG-EST450G

RG-EST350G

RG-EST330F-P

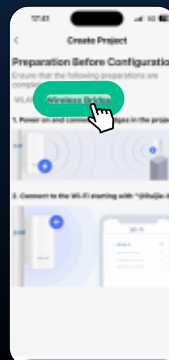RG-AirMetro460F

PTP

PTMP

## Cloud, Make Your Business Easy

SON

Alignment Tool

Spectrum Scan

Monitoring & Configuration

Quick Self-Organizing Network for Bridge

# / Specifications

| Model | RG-EST330F-P |
|---|---|
| **Hardware Features** | |
| **Radio Design** | 5 GHz dual-stream<br>2.4 GHz single-stream |
| **2.4 GHz Band** | Yes |
| **5 GHz Band** | Yes |
| **Protocol and Standard** | 5 GHz: 802.11ac/n/a<br>2.4 GHz: 802.11b/g/n |
| **Wi-Fi Standard** | Wi-Fi 5 |
| **Spatial Streams** | 5 GHz dual-stream, 2x2 MIMO<br>2.4 GHz single-stream |
| **2.4 GHz Channel Width** | Auto/20/40 MHz |
| **5 GHz Channel Width** | Auto/20/40/80 MHz |
| **Receiver Sensitivity** | 11a: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps);<br>11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15;<br>11ac: -86 dBm (MCS0), -63 dBm (MCS9) |
| **Nominal Receive Sensitivity @20 MHz Channel** | -91 dBm (MCS0) to -57 dBm (MCS9) |
| **Nominal Receive Sensitivity @40 MHz Channel** | -83 dBm (MCS0) to -57 dBm (MCS9) |
| **Nominal Receive Sensitivity @80 MHz Channel** | -76 dBm (MCS0) to -51 dBm (MCS9) |
| **Modulation Levels (Adaptive)** | MCSO (BPSK) to MCS9 (256QAM) |
| **Wi-Fi Protocols (2.4 GHz)** | Wi-Fi 4 |
| **Wi-Fi Protocols (5 GHz)** | Wi-Fi 5 (IEEE 802.11ac) |
| **Wireless Data Rate** | 1017 Mbps |
| **Wireless Data Rate (2.4 GHz)** | 150 Mbps |

| Model | RG-EST330F-P |
|---|---|
| Wireless Data Rate (5 GHz) | 867 Mbps |
| Frequency Bands | 2.4 GHz: 802.11b/g/n: 2.4000 GHz to 2.483 GHz<br>5 GHz: 802.11a/n/ac: 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to 5.850 GHz<br>Note: Country-specific restrictions apply. |
| 2.4 GHz Max. Transmit Power | 20 dBm |
| 5 GHz Max. Transmit Power | 26 dBm |
| Surge Protection | Common mode: ±4 kV Differential mode: ±2 kV |
| Dimensions (W x D x H) | 198.8 mm x 102 mm x 53.4 mm (7.827 in. x 4.016 in. x 2.102 in.) (without bracket) |
| Weight | 0.37 kg (0.82 lbs.) |
| Number of Fixed LAN Ports | 3 |
| Max. LAN Port Rate | 100 Mbps |
| Number of 10/100BASE-T Ports | 3 |
| Reset | Yes |
| Status LED | Yes |
| Power Supply | 12 V DC or 24 V passive PoE or 802.3af/at |
| Local Power Supply | Yes |
| PoE Out | Yes |
| Supported PoE Standards | 802.3af/at |
| PoE Power Budget | 15.4 W |
| Antenna Type | Built-in antenna, horizontal 30°/vertical 30° |
| Hardware Button | 1 x reset button |
| DC Power Connector Size | Inner Diameter: 2.10 mm ± 0.1 mm (0.083 in. ± 0.004 in.)<br>Outer Diameter: 5.50 mm ± 0.1 mm (0.217 in. ± 0.004 in.)<br>Depth: 10.0 mm ± 0.5 mm (0.394 in. ± 0.020 in.) |
| DC Voltage/Current | 12 V/1 A, 24 V/1.5 A |
| LEDs | 1 x system LED |

| Model | RG-EST330F-P |
|---|---|
| | 3 x port LEDs<br>3 x signal strength LEDs |
| **2.4 GHz Antenna Gain** | 2 dBi |
| **5 GHz Antenna Gain** | 13 dBi |
| **Power Consumption** | < 9 W (Without PoE Out)<br>< 24.4 W (With PoE Out) |
| **IP Rating** | IP55 |
| **Color** | Elegant white |
| **Operating Temperature** | −30°C to +55°C (−22°F to +149°F) (−40°C to +80°C [−40°F to +176°F] in publicity materials) |
| **Storage Temperature** | −40°C to +85°C (−22°F to +185°F) |
| **Operating Humidity** | 5% RH to 95% RH (non-condensing) |
| **Storage Humidity** | 5% RH to 95% RH (non-condensing) |
| **MTBF** | > 400000 hours |
| **Working Distance** | 3 km |
| **Bridging Performance** | 90 Mbps/0.5 km<br>80 Mbps/1 km (HT40)<br>60 Mbps/2 km (HT40)<br>40 Mbps/3 km (HT40) |
| **RSSI (dBm)** | -54 dBm/0.5 km<br>-64 dBm/1 km<br>-71 dBm/2 km<br>-75 dBm/3 km |
| **Throughput & Camera Limits：3 MP** | 18/0.5 km<br>16/1 km<br>12/2 km<br>8/3 km |
| **Throughput & Camera Limits：4 to 5 MP** | 12/0.5 km<br>10/1 km<br>8/2 km<br>5/3 km |
| **Throughput & Camera Limits：6 to 7** | 8/0.5 km |

| Model | RG-EST330F-P |
|---|---|
| MP | 7/1 km<br>5/2 km<br>3/3 km |
| Throughput & Camera Limits：7 to 8 MP | 5/0.5 km<br>5/1 km<br>2/2 km<br>1/3 km |
| Management Radio | 2.412 GHz to 2.472 GHz |
| Number of PtMP Links | 5 |
| ESD Protection | ESD tolerance: contact discharge=8 kV, air discharge=15 kV |
| Certification | CE |
| **Software Features** | |
| Operating Mode | BaseStation/CPE |
| TDMA | Fixed Mode/Flexible Mode |
| WLAN Security | WPA2-PSK |
| Management SSID | @Ruijie-bxxxx |
| Management SSID for Internet Access | Yes |
| SSID Hiding | Yes |
| Spectrum Scan | Yes |
| Antenna Aligment | Yes |
| One-Touch Pairing | Yes |
| WMM | Yes |
| Storm Control | Yes |
| VLAN Packet Transmit | Yes |
| DHCP Server | Yes |
| DHCP Client | Yes |
| Network Diagnosis | Ping/Traceroute/DNS Lookup |

| Model | RG-EST330F-P |
|---|---|
| Time & Date | Yes |
| Firmware Upgrade | Yes |
| Backup/Restore | Yes |
| Cloud Management | Yes |
| Power Configuration | Yes |
| Country/Region Code | Yes |
| Remote Restart | Yes |
| SON (Self-organizing Networking with all Reyee Devices) | Yes |
| SNMP | No |
| Link Aggregation | No |
| Bridge Speed Test | Yes |
| Max. Number of Devices on a SON | 200 |
| Ping | Yes |
| Traceroute | Yes |
| AI Heatmap | Yes |

# / Package Contents

| Model | RG-EST330F-P |
|---|---|
| **Wireless Bridge/Antenna** | 1 |
| **PoE Injector** | 1 |
| **DC Power Adapter** | 1 |
| **Mounting Bracket** | 0 |
| **Gross Weight** | 0.91 kg (2.01 lbs.) |
| **Package Dimensions (W x D x H)** | 276 mm x 165 mm x 107 mm<br>(10.87 in. x 6.50 in. x 4.21 in.) |

**RUIJIE | Reyee**

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Ruijie Networks Co., Ltd.
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