

# RG-EST330F-P

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

DATASHEET

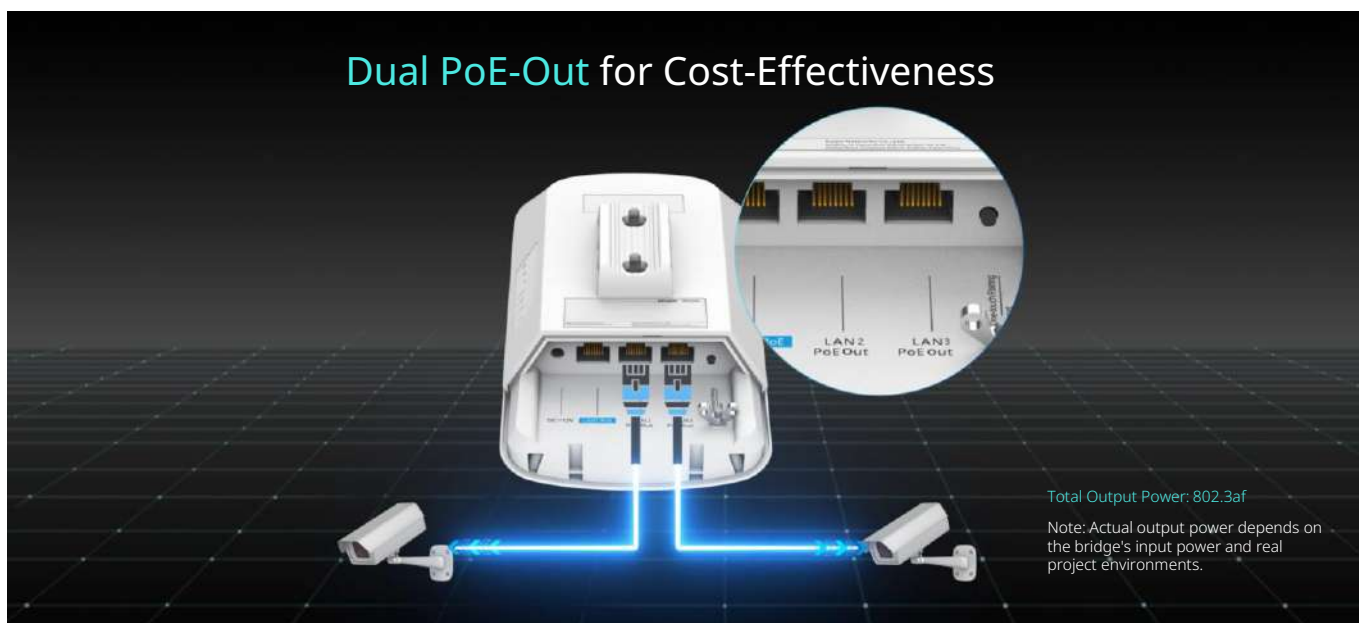
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### Highlights

- 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.

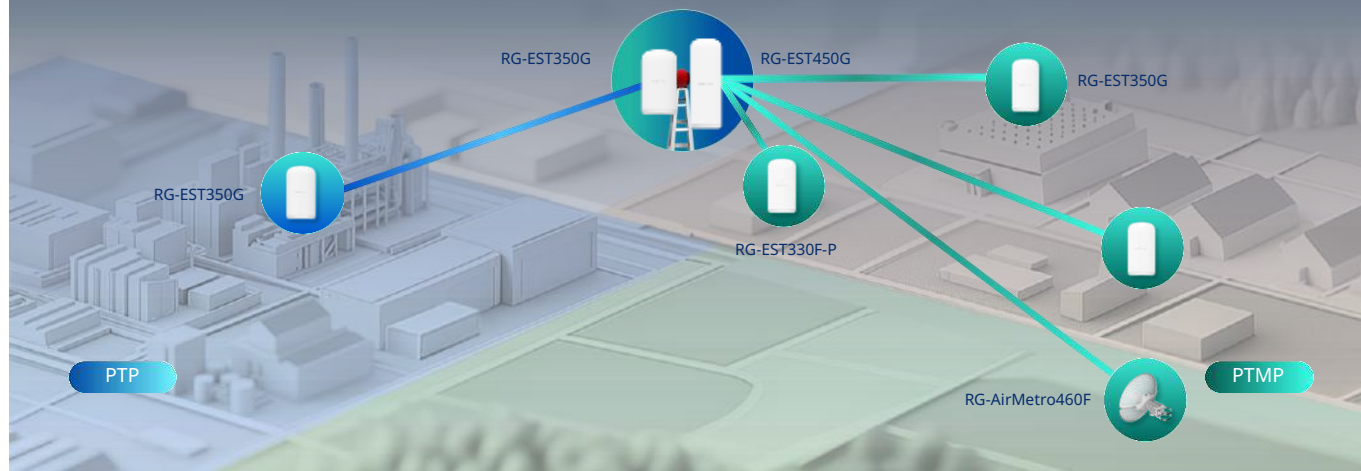
## Highlight Features



## Highlight Features

### Bridging for TDMA-Powered Devices of Different Series

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



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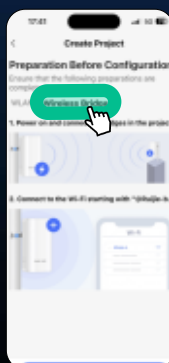
SON

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 2.4 GHz single-stream
2.4 GHz Band	Yes
5 GHz Band	Yes
Protocol and Standard	5 GHz: 802.11ac/n/a 2.4 GHz: 802.11b/g/n
Wi-Fi Standard	Wi-Fi 5
Spatial Streams	5 GHz dual-stream, 2x2 MIMO 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); 11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65 dBm@MCS15; 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)	MCS0 (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

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Wireless Data Rate (5 GHz)	867 Mbps
Frequency Bands	2.4 GHz: 802.11b/g/n: 2.4000 GHz to 2.483 GHz 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 Note: Country-specific restrictions apply.
2.4 GHz Max. Transmit Power	20 dBm
5 GHz Max. Transmit Power	26 dBm
Surge Protection	Common mode: $\pm 4$ kV Differential mode: $\pm 2$ 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	12V DC or 24 V passive PoE or 802.3af/at Note: It is recommended to power the RG-EST330F-P via 24 V PoE. When the device is powered by the original DC adapter, the bridge's network features will operate properly, but its PoE Out feature will be unavailable.
Local Power Supply	Yes
PoE Out	Yes Note: 1. PoE Out supported, with 24 V passive PoE or 802.3at power input; 2. PoE Out not supported, with 12 V DC or 802.3af power input.
PoE Power Budget	15.4 W (PoE budget for two ports)
Antenna Type	Built-in antenna, horizontal 30°/vertical 30°
Hardware Button	1 x reset button
DC Power Connector Size	Inner Diameter: 2.10 mm $\pm$ 0.1 mm (0.083 in. $\pm$ 0.004 in.) Outer Diameter: 5.50 mm $\pm$ 0.1 mm (0.217 in. $\pm$ 0.004 in.) Depth: 10.0 mm $\pm$ 0.5 mm (0.394 in. $\pm$ 0.020 in.)

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DC Voltage/Current	12 V/1 A, 24 V/1.5 A
LEDs	1 x system LED 3 x port LEDs 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) <24.4W (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 80 Mbps/1 km (HT40) 60 Mbps/2 km (HT40) 40 Mbps/3 km (HT40)
RSSI (dBm)	-54 dBm/0.5 km -64 dBm/1 km -71 dBm/2 km -75 dBm/3 km
Throughput & Camera Limits: 3 MP	18/0.5 km 16/1 km 12/2 km 8/3 km
Throughput & Camera Limits: 4 to 5 MP	12/0.5 km 10/1 km 8/2 km

Model	RG-EST330F-P
	5/3 km
Throughput & Camera Limits: 6 to 7 MP	8/0.5 km 7/1 km 5/2 km 3/3 km
Throughput & Camera Limits: 7 to 8 MP	5/0.5 km 5/1 km 2/2 km 1/3 km
Management Radio	2.412 GHz ~ 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

Model	RG-EST330F-P
DHCP Client	Yes
Network Diagnosis	Ping/Traceroute/DNS Lookup
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 (10.87 in. x 6.50 in. x 4.21 in.)

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