

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

RG-EST330F-P

3 km Working Distance EST Bridge



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

This image shows the RG-EST330F-P bridge in a real-world setting. The bridge is white and mounted on a silver pole. Two white cameras are attached to the top of the pole. The background is a residential street with houses and a fence. The bridge has several icons and text labels indicating its features: a Wi-Fi icon for 13 dBi, a speedometer icon for 5 GHz, 867 Mbps, a camera icon for H: 30°, V: 30°, a distance icon for 3 km, a TDMA icon, and an umbrella icon for IP55 Weatherproof.

Triple Power Input Options for Flexible Deployment

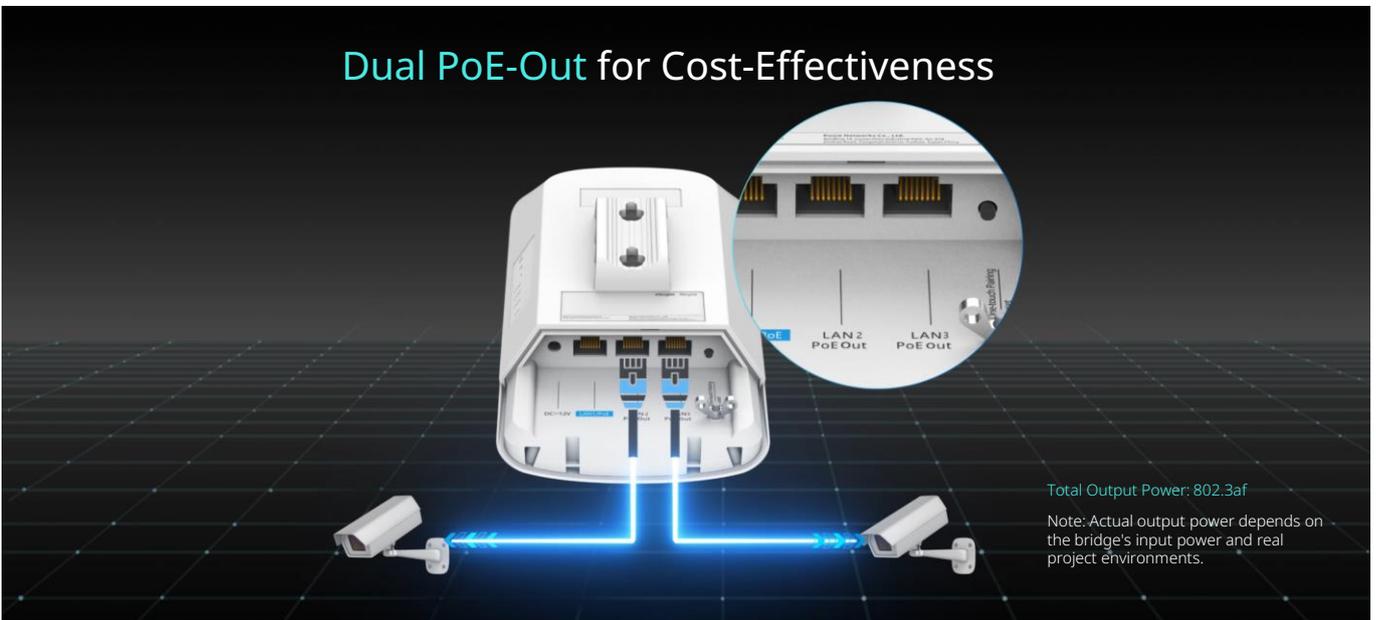


12 VDC Solar Power Supply | 802.3af/at | Passive PoE

3 x FE Ports | 3-Year Warranty

This diagram illustrates the bridge's power input options. A central white bridge is shown with its back panel open. Three power input options are connected to the bridge: a 12VDC Solar Power Supply, an 802.3af/at PoE switch, and a Passive PoE injector. The bridge has three FE Ports and a 3-Year Warranty. The diagram shows the bridge connected to a solar panel, a PoE switch, and a Passive PoE injector. The bridge has three FE Ports and a 3-Year Warranty.

Dual PoE-Out for Cost-Effectiveness



Total Output Power: 802.3af

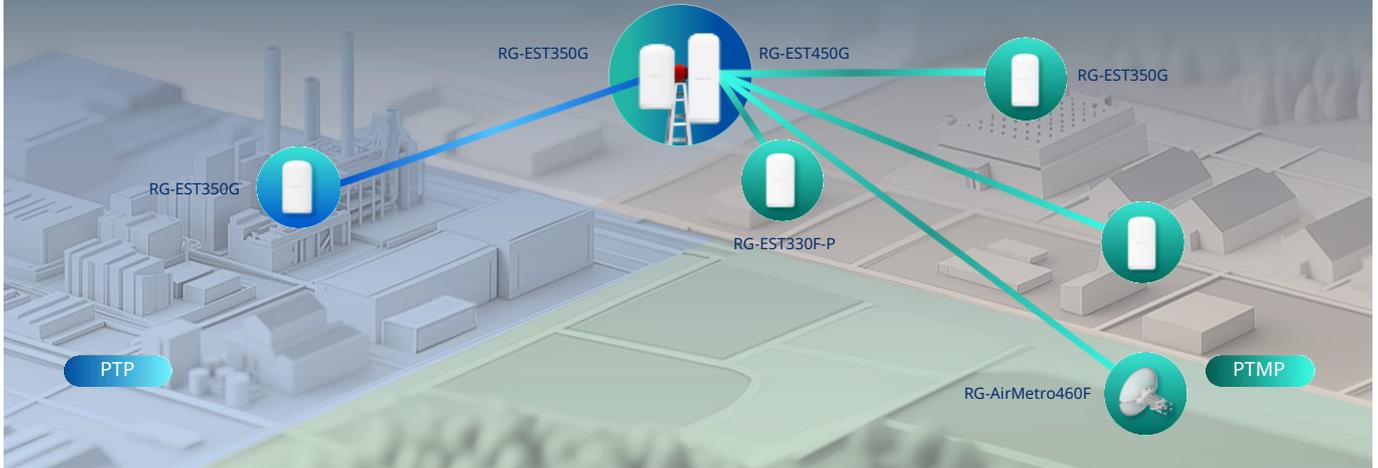
Note: Actual output power depends on the bridge's input power and real project environments.

This diagram shows the bridge's dual PoE-Out ports. The bridge is shown with its back panel open, and two cameras are connected to the LAN2 PoE Out and LAN3 PoE Out ports. The bridge has a Total Output Power of 802.3af. A note states: "Note: Actual output power depends on the bridge's input power and real project environments." The diagram shows the bridge connected to two cameras. The bridge has a Total Output Power of 802.3af. A note states: "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



Cloud, Make Your Business Easy

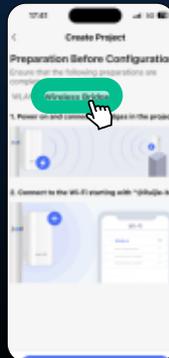
SON

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 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

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 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: ± 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 \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.)
DC Voltage/Current	12 V/1 A, 24 V/1.5 A
LEDs	1 x system LED

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	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) < 24.4 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 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 5/3 km
Throughput & Camera Limits: 6 to 7	8/0.5 km

Model	RG-EST330F-P
MP	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 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

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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 Reyeer 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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