

15dBi 5km Wireless Network Bridge RG-EST350V2



The RG-EST350V2 is an 802.11ac 15dBi wireless bridge for video surveillance backhaul or remote wireless transmissions. Applications include farms and rural property, tower cranes, factories, campuses and construction sites where you need to create a high-speed wireless link for data connectivity with minimal installation time and configuration. The RG-EST350V2 is capable of sending and receiving distances up to 5km.

3-Year Manufacturer's Warranty

Refer to website for full terms & conditions

Features and Benefits

- » 5GHz single-band dual-stream chip with 867Mbps wireless transmit rate up to 5km range
- » One-click setup and management via the free cloud app
- » PTMP supported bridging (Example: one recorder, multiple cameras)
- » High durability: IP54 rating provides dust, water and heat protection for outdoor environments
- » Power supply redundancy support (12V and 24V)
- » Can be wall or pole mounted



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Hardware specifications	
Radio Design	5 GHz single-band dual-stream
2.4 GHz Band	No
5 GHz Band	Yes
Protocol and Standard	802.11ac/n/a
Wi-Fi 4/5/6/7	Wi-Fi 5
Spatial Streams	2
5G Channel Width	Auto/20/40/80 MHz
Receiver Sensitivity	11a: -89 dBm (6 Mbps), -80 dBm (24Mbps), -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	-91dBm (MCS0) TO -65dBm (MCS15)
Nominal Receive Sensitivity @40 MHz Channel	-83dBm (MCS0) TO -65dBm (MCS15)
Modulation Levels (Adaptive)	MCS0(BPSK)to MCS9 (256QAM)
Wi-Fi Protocols (5 GHz)	Wi-Fi 5 (IEEE 802.11ac)
Wireless Data Rate	867 Mbps
Wireless Data Rate (5 GHz)	867 Mbps
Frequency Bands	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.
5 GHz Max.transmit Power	26 dBm
Surge Protection	Common mode: ± 4 kV Differential mode: ± 2 KV
Dimensions (W x D x H)	230 mm x 132 mm x 48 mm (9.06 in. x 5.20 in. x 1.89 in.) (without bracket)
Weight	0.5 kg
Number of Fixed LAN Ports	2
Max. LAN Port Rate	1000 Mbps

Number of 10/100/1000BASE-T Ports	2
Reset	Yes
Status LED	Yes
Power Supply	24 V passive PoE/12 V DC
Local Power Supply	Yes
PoE Out	No
Supported PoE Standards	No Note: Passive PoE input
Antenna Type	Built-in directional antenna, horizontal: 31°, vertical: 14°
Hardware Button	1 x reset button
DC Power Connector Size	Inner Diameter: 2.10 ± 0.05 mm (0.08 $\pm$ 0.002 in.) Outer Diameter: 5.50 ± 0.05 mm (0.22 $\pm$ 0.002 in.) Depth: 9 mm (0.35 in.)
DC Voltage/Current	12 V/1 A
LEDs	1 x system LED 2 x port LEDs 3 x signal strength LEDs
2.4 GHz Antenna Gain	No
5 GHz Antenna Gain	15 dBi
Power Consumption	<9W
IP Rating	IP54
Color	Standard: Elegant white
Operating Temperature	Operating temperature: -30°C to +55°C (-22°F to +140°F)
Storage Temperature	Storage temperature: -40°C to +70°C (-40°F to +158°F)
Operating Humidity	Operating humidity: 5% to 95% RH (non-condensing)
Storage Humidity	Storage humidity: 5% to 95% RH (non-condensing)
MTBF	> 400000 hours
Working Distance	5 km
Bridging Performance	230 Mbps/1 km (HT40) 200 Mbps/3 km (HT40) 150 Mbps/5 km (HT40)
RSSI (dBm)	-58 dBm/1 km -66 dBm/3 km -70 dBm/5 km
Throughput & Camera Limits: 3 MP	50/1 km 45/3 km 20/5 km

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Throughput & Camera Limits: 4 to 5 MP	30/1 km 25/3 km 12/5 km
Throughput & Camera Limits: 6 to 7 MP	20/1 km 13/3 km 8/5 km
Throughput & Camera Limits: 7 to 8 MP	15/1 km 12/3 km 6/5 km
Management Radio	5.150-5.350GHz : 5.725-5.850GHz
Number of PtMP Links	3
ESD Protection	Tolerance:±8 kv Contact/ ±15 kv Air
Certification	CE
Software Features	
Operating Mode	Base Station/CPE
Channel Spacing	20 MHz
TDMA	Fixed Mode/Flexible Mode
WLAN Security	WPA2-PSK
Management SSID	@Ruijie-bxxxx
SSID Hiding	Yes
Spectrum Scan	Yes
Antenna Alignment	Yes
One-Touch Pairing	No
WMM	Yes
Storm Control	Yes
VLAN Packet Transmit	Yes
DHCP Server	Yes
DHCP Client	Yes
Network Diagnostics	Ping/TraceRoute/Dns
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 Bridges
SNMP	Yes
Link Aggregation	No
Throughput & Camera Limits	Reference performance recommendation table
Ping	Yes
Traceroute	Yes
AI Heatmap	Yes