

RG-EST310 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



Highlight Features

Strong Adaptability and High Scalability



V0 Level
Flame Retardant



IP54
Weatherproof



-30 to 55°C Operating
Temperature

High Quality High Performance

RG-EST310 V2 has adopted the new high-performance 5GHz single-band dual-stream chip solution, which offers up to 867Mbps wireless transmit rate and significantly enhances the efficiency and stability of network bridge data transmission.



Highlight Features

Cloud, Make Your Business Easy



Specifications

Basic	
Radio Design	5 GHz Single-Band Dual-Stream
Transmission Protocol	IEEE 802.11 ac/n/a
Operating Band	802.11a/n/ac: 5.150~5.350GHz, 5.470~5.725GHz , 5.725~5.850GHz (country specific) Note: Allowable frequencies and bands are dictated by individual country regulations. Thailand product does not support 5.150-5.350GHz outdoors.
Antenna	Directional antennas, 10 dBi
Polarization	Horizontal: 60°, Vertical: 30°
Bridging Distance	3 KM (recommended)
Spatial Streams	2x2, MU-MIMO
Memory/Flash	64 MB/8 MB
Maximum Throughput	Up to 867 Mbps at 5 GHz
Ports	1 10/100Base-T Ethernet ports, port 1 with Passive PoE
Max. Transmit Power	≤400 mW(26 dBm) (adjustable)
IP Rating	IP54
Lightning Protection	4 KV
Installation	Wall-mounted/ Pole-mounted
Weight	0.35 kg
Dimensions (D x W x H)	147 mm × 76 mm × 37 mm

Software Features	
IPv4	
802.1Q VLAN	✓
Multi-VLAN Transparent Transmission	✓
ARP	256
Max. Concurrent Connections	8000
Ping	✓

/ Specifications

Software Features	
IPv4	
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	-52/100M -65/500M -68/1KM -75/2KM
Performance	90Mbps/100M(HT40) 80Mbps/500M(HT40) 80Mbps/1KM(HT40) 40Mbps/2KM(HT40)
One-Click Optimization	✓
DFS	✓
Local Forwarding	✓
WLAN QoS	WMM
Management	
Zero Provisioning on Cloud	QR-Code / Serial Number
CWMP(TR069) Support	✓

Specifications

Software Features	
Management	
Point-to-Point	✓
Point-to-Multipoint	Recommended 5
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	✓
Camera Reference	
3Mbps Video Bit Rate	16 Units/100M 16 Units/500M 16 Units/1KM 6 Units/2KM

Specifications

Software Features

Camera Reference

4-5Mbps Video Bit Rate	10 Units/100M
	10 Units/500M
	10 Units/1KM
	4 Units/2KM

6Mbps Video Bit Rate	7 Units/100M
	7 Units/500M
	7 Units/1KM
	3 Units/2KM

Hardware Features

Physical Features

LED indicator	LEDs indicate the bridging quality:
	LED off: No bridging
	LED blinking: $\leq -78\text{dBm}$
	One LED on: $-78\text{dBm} < \text{RSSI} \leq -72\text{dBm}$
	Two LEDs on: $-72\text{dBm} < \text{RSSI} \leq -65\text{dBm}$
	Three LEDs on: $> -65\text{dBm}$

Hardware Button	1 reset button
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Power Supply	12 VDC power supply or 24 VDC Passive PoE
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Power Consumption	$< 7\text{W}$
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Environment	Operating temperature: -30°C to 55°C (-22°F ~ 131°F)
	Storage temperature: -40°C to 70°C (-40°F ~ 158°F)
	Operating humidity: 5% to 95% (noncondensing)
	Storage humidity: 5% to 95% (noncondensing)

MTBF	$> 400,000\text{H}$
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Package Contents

Device	RG-EST310 V2 * 2
Mounting Bracket	2
Hose Clamps	4
Power supply	Power adapter * 2
User Manual	1
Wall Anchors	4
Phillips Pan Head Screws	8
Package Weight	1.35 kg
Package Dimension (w x d x h)	400*231*88mm

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