RG-EST310 V2

5GHz Dual-stream 802.11ac 1KM 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

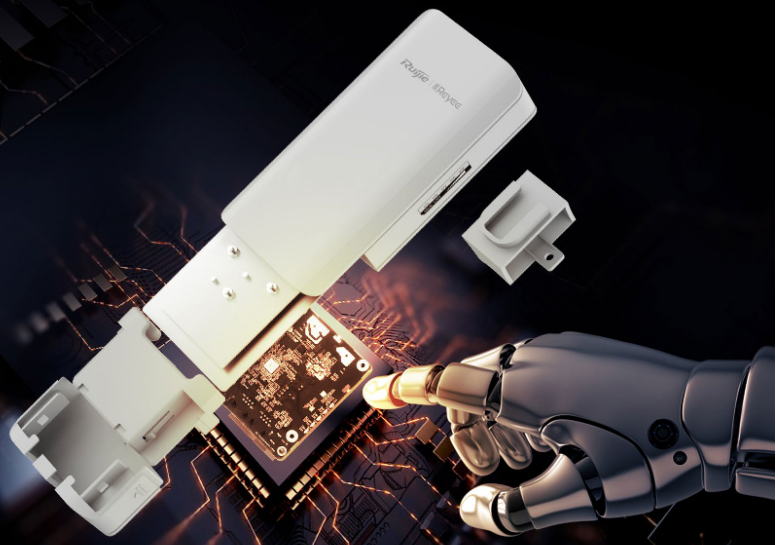
V0 Level
Flame Retardant

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

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: ≤-78dBm One LED on: -78dBm< RSSI ≤-72dBm Two LEDs on: -72dBm< RSSI ≤-65dBm Three LEDs on: >-65dBm
Hardware Button	1 reset button
Power Supply	12 VDC power supply or 24 VDC Passive PoE
Power Consumption	< 7W
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	> 400,000H

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

Redefine your easy network

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