

RG-EST310 V2 5GHz Dual-stream 802.11ac 1KM Wireless Bridge

DATASHEET



Highlights

- RG-EST310 V2 can easily transmit data from 1KM away in real time
- Automatic pairing at long distance, without complex alignment
- IP54 Weatherproof, -30°C~65°C guarantees stable operating in outdoor environments
- Support maximum 16 x 2MP cameras at 1KM
- Visually intuitive statistics monitoring on Ruijie cloud, easy remote maintenance

Highlight Features





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Highlight Features





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| Highlight Features





Basic 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)	
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	✓	



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	✓	



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 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	



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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Ruijie Networks Co., Ltd.
Building 19, Juyuanzhou Industrial Park, No.618
Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Website: https://www.ruijienetworks.com