

RG-EST310 V2

5GHz Dual-stream 802.11ac

1KM Wireless Bridge

DATASHEET



Highlights

- RG-EST310 V2 Provides Stable Traffic Transmission from 1 km Away
- Automatic Pairing And Automatic Healing
- IP54 Weatherproof, -30°C~55°C Ensures Stable Operating
- Cost-Effective Wireless Solution for Elevator CCTV to Avoid Cable Loss

Highlight Features



Specifications

Basic

Radio Design	5 GHz Single-Band Dual-Stream
Transmission Protocol	IEEE 802.11 ac/n/a
Operating Band	802.11 a/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	1 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	✓
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Unicast traffic	✓
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DHCP Client	✓
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DNS Client	✓
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Static IP address	✓
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IP Collision Avoidance	✓
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Management IP	192.168.120.1
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Routing

Default Route	✓
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Wireless

SSID/SSID Hiding	✓
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Password	Open / WPA-PSK / WPA2-PSK / WPA/WPA2-PSK
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RSSI	-52/100M -65/500M -68/1KM -75/2KM
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Performance	90Mbps/100M(HT40) 80Mbps/500M(HT40) 80Mbps/1KM(HT40) 40Mbps/2KM(HT40)
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One-Click Optimization	✓
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DFS	✓
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Local Forwarding	✓
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WLAN QoS	WMM
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Management

Zero Provisioning on Cloud	QR-Code / Serial Number
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CWMP(TR069) Support	✓
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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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