Ruíjie | Reyce

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





<complex-block>

Highlight Features

Strong Adaptability and High Scalability



High Quality High Performance

RG-EST310 V2 has adopted the new high-performance SGHz singleband 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

		[®] Rcycc ≡		amera (CPE) 💪 Pair Again		
	C Overview	WDS Group Info WDS Groups 1	A Passi	rond X IP Allocation	X 5510 O	
	% Wireless ~	WDS Group1 AP: 1. (Root) Channel 55 Latinncy Ø: Funn(3) 4	Jiterilli Franzeilli		2:31 4 Root	+ -
		CPE 3 (Creline: 3 , Cffline: 0) WDS \$550 @Ruje wds-aa36 Interference 0: 0ood(Channel Bridge Nam 60 ØRulje-v	tis-aa36
Rugie Revee Rugie	Reyge	Bandwitth @ Good(3) Medum(0) Poor(0) RSSI @ Good(3) Medum(0) Poor(0)			eking Mode () Standard High Bandwidth Ant	-interference
		Strong Signal 🗕 Medium Signal 🗕	Poor Signal: 📥			
	a	◇ VCR (AP)		○ Camera (CPE		
		Root 2 0 - Lutency 5ms Rate - 700Mtpps Flow	→ 0.00bps RSSI-31db ← 0.00bps Uptime 01Min07Sec	Camer MAC: c		
		MAC: 04 /0 ab 56 ab 36 ESTE20 IP: 192 168 110 189 Online	State of the state	EST310 IP: 192	Excellent at Neg Laboration	
			→ 11.14Kbps RSSI-27db = 8.28Kbps Uptme 05Min05Sec	Root a	**************************************	
				EST310 IP. 192	ATT264 International 200 Vice the Attention	a
			→ 10.69Kbps RSSI -31db - 10.93Kbps Uptime 27Min09Sec	Camer MAC: c		
					88 Optimize	



	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	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

	Soltware realures
	IPv4
802.1Q VLAN	\checkmark
Multi-VLAN Transparent Transmission	\checkmark
ARP	256
Max. Concurrent Connections	8000
Ping	\checkmark



	Software Features
	IPv4
Traceroute	\checkmark
Unicast traffic	\checkmark
DHCP Client	\checkmark
DNS Client	\checkmark
Static IP address	\checkmark
IP Collision Avoidance	\checkmark
Management IP	192.168.120.1
	Routing
Default Route	\checkmark
	Wireless
SSID/SSID Hiding	\checkmark
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	\checkmark
DFS	\checkmark
Local Forwarding	\checkmark
WLAN QoS	WMM
	Management
Zero Provisioning on Cloud	QR-Code / Serial Number
CWMP(TR069) Support	\checkmark



	Software Features	
Management		
Point-to-Point	\checkmark	
Point-to-Multipoint	Recommended 5	
Self-Organizing Network	Max. 200 wireless bridges	
AP/CPE Switchover	\checkmark	
Interface Configuration	\checkmark	
Country Code	176 countries support, details refer to Country&Region Code reference	
Clock setting	\checkmark	
Time Zone	\checkmark	
	Maintanance	
Alarm	IP address conflict / SSID / Offline	
Diagnostics	\checkmark	
Reboot	\checkmark	
Reset	\checkmark	
	Cloud Features	
Remote Access	\checkmark	
Remote Reboot	\checkmark	
Statistics Monitoring	\checkmark	
Working mode	Normal / High performance / Anti-interference	
Remote SSH	\checkmark	
Remote EWeb	\checkmark	
	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

Rujje Rcycc

Redefine your easy network

Copyright ©2000-2024 Ruijie Networks Co., Ltd. All rights reserved. No part of this document may be reproduced or transmitted in any form or any means without prior written consent of Ruijie Networks Co., Ltd.

Notice

This content is applicable only to regions outside the China mainland. Ruijie Networks Co., Ltd. reserves the right to interpret this content.

The information contained herein is subject to change without notice. Nothing herein should be construed as constituting an additional warranty. Ruijie Networks Co., Ltd. shall not be liable for technical or editorial errors or omissions contained herein.



Ruijie Networks Co., Ltd. Website: https://reyee.ruijie.com/en-global