

# RG-EST100-E 2.4GHz Dual-Stream 500m Wireless Bridge

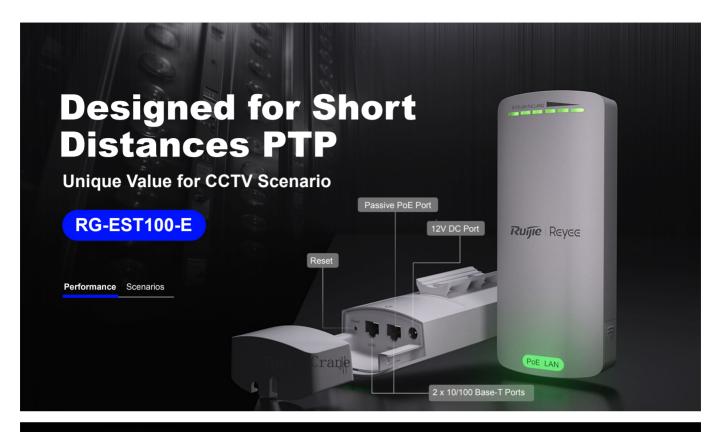
DATASHEET



#### Highlights

- RG-EST100-E can easily transmit data from 500m away in real time
- Factory-free configuration, without complex alignment
- IP55 Weatherproof, -30°C~60°C guarantee stable operating at outdoor environment or elevator environment
- Support maximum 14 \* 3MP cameras loading at 100m, 5 \* 3MP cameras loading at 500m
- Visually Intuitive statistics monitoring on Ruijie cloud, easy maintenance at remotely

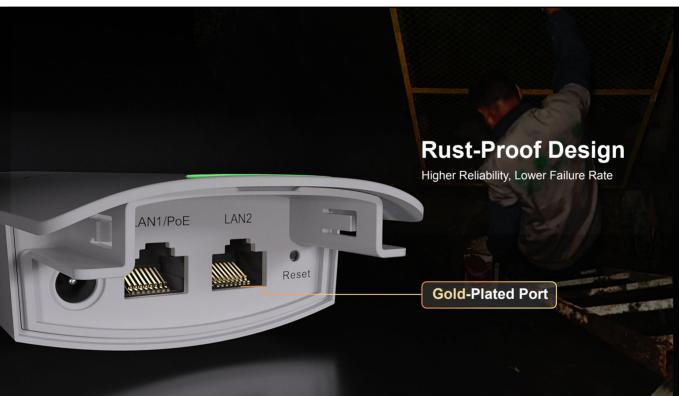
### Highlight Features



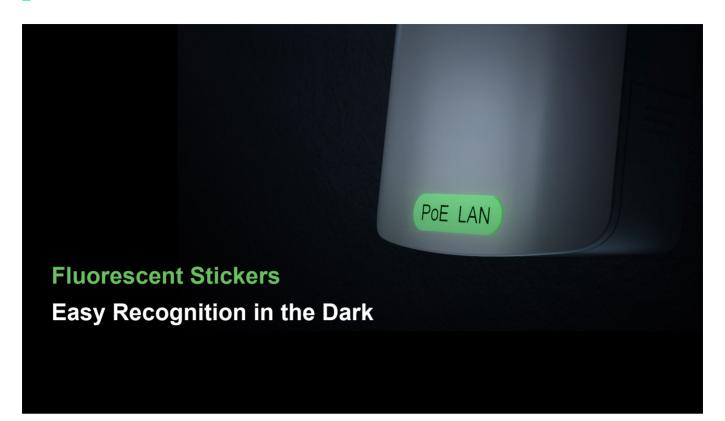


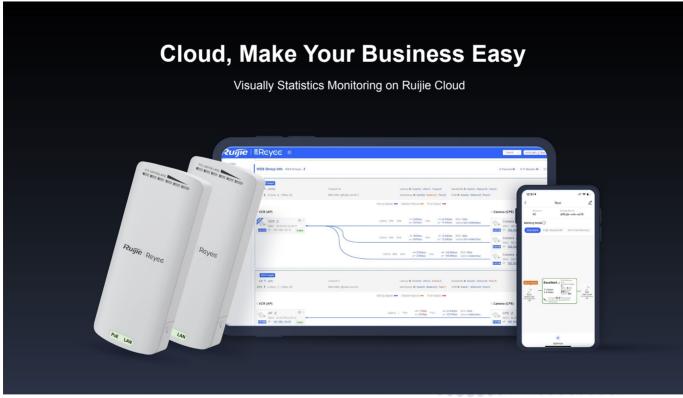
#### Highlight Features





### Highlight Features







	Specification	
	Basic	
Radio Design	2 GHz Single-Band Dual-Stream	
Transmission Protocol	IEEE 802.11b/g/n	
Operating Band	802.1111b/g/n: 2.400~2.483GHz	
Antenna	Directional antennas, 8 dBi	
Polarization	Horizontal: 70°, Vertical: 70°	
Bridging Distance	500m (recommended)	
Spatial Streams	2x2, MU-MIMO	
Memory/Flash	64 MB/8 MB	
Maximum Throughput	Up to 300 Mbps at 2.4 GHz	
Ports	2 10/100Base-T Ethernet ports, port 1 with Passive PoE	
Max. Transmit Power	≤100 mW(20 dBm) (adjustable)	
IP Rating	IP55	
Lightning Protection	±6 KV(Common Mode)	
Installation	Wall-mounted/ Pole-mounted	
Weight	0.3 kg	
Dimensions (D x W x H)	165.5mm×68.7mm×42mm	
	Software Features	
	Layer 2 Features	
Ethernet	LAN Port Working in Bridging Mode	
VLAN	802.1Q VLAN	
L3 Features		
IPv4	ARP Ping Traceroute	



Software Features	
UCAST	Default Route
	Internet
DHCP Client	~
Static IP Address	<b>✓</b>
WAN Address Collision Avoidance	Changing LAN Address Automatically upon WAN Address Collision
Device Access	10.44.77.254 192.168.120.1 10.44.77.254
Routing	
Default Route	<b>✓</b>
Management Features	
SN Management	Entering SN Importing SN by Excel File
Wizard	Project Settings: Project Name, Password and Type
MQLink	MQLink
Networking Management	Adding Device to Network Based on LNID Set Up New Device (LNID=0) One-to-Many Removing the device from project when the device is reset to factory settings. Restoring LNID to 0 and password to admin when the device is removed from project. Network Migration Device Deletion Discovering neighboring devices automatically and reporting the device whose LNID is 0 or inconsistent with the network LNID. Migrating the device automatically after users enter the password.
Basic Settings	AP/CPE Switchover LAN Settings Hostname Settings Password Settings Country/Region Code Settings Time Zone Settings Clock Settings



Software Feature		
	Password Settings	
Network Settings	IP Address Settings SSID Settings	
Configuration Synchronization	Synchronizing configuration when the device is added.  After users edit settings on Eweb, MACC will receive the timestamp reported by the device and trigger synchronization.  A device goes online after settings are changed. The device will be synchronized with	
	configuration based on its timestamp. Synchronizing configuration among Ruijie Cloud, Eweb and MACC	
Alarm		
Alarm	Default Configuration Notification IP Conflict Networkwide Management SSID Notification WDS Link Exception Alarm Disconnection Alarm	
Diagnostics Diagno		
Diagnostics	Network Tools Fault Collection	
	System Tools	
System Time		
Upgrade	Upgrade to Specified Version Upgrade All Devices Local Upgrade	
Maintenance	System Time Reboot Reset to Factory Settings Web Session Timeout	
Deployment Tool	Deployment Tool	
Device List		
Device List	Hostname, Type, Client Count, Channel, Online/Offline Status	



Software Feature			
	Device Details		
Device Details	Hostname, SN, MAC Address, Management IP Address, Type, Firmware Version		
Remote SSH			
-	~		
Remote Web			
-	~		
WDS			
WDS Settings	One-click optimization Switching among multiple working modes (high-bandwidth/normal/anti-interference) WDS: SSID Hiding, Not Open AP/CPE Switchover SSID, Channel and Power Settings Bridging Status LED LED off: No bridging One LED blinking: < -78dBm One LED on: -78dBm< RSSI <-72dBm Two LEDs on: -72dBm< RSSI <-65dBm Three LEDs on: RSSI > -65dBm Root AP RSSI: The lowest RSSI shall prevail. Link Quality: High, Medium and Low If the CPE end detects bridging failure and fails to connect again in 5 minutes, it will be rebooted automatically to set up bridging again. Unlocked: Default SSID (Broadcast, Open), @ruijie-bXXXX Locked: Default SSID (Hidden, Open), @ruijie-bXXXX The locked device supports re-pairing on Eweb and can be locked again. AP/CPE supports fetching AP SSID/BSSID list by scanning. Display Recommended Camera Count Multi-VLAN Transparent Transmission		
	Security Features		
Basic Features	Login Authentication (password, none)		
Password Security	Static Password with Encrypted Transmission and Storage		
Developer Mode	Developer Mode		



	Software Feature	
	Application Protocol Features	
DNS	DNS client	
SSH	SSH TFTP Client DHCP-Server DHCP Client CLIENT	
WLAN Basic Features		
Local Forwarding	Local Forwarding Local Association	
	WLAN RF Features	
802.11 Protocol	Country Code Channel Expansion	
WLAN Encryption and Security	Link Authentication Access Authentication Security (WPA-PSK/WPA2-PSK/WPA-WPA2-PSK) Key Agreement Protocol	
Bridging Security	Bridging key for the entire network Bridging key for a pair of wireless bridges Bridging key for a wireless bridges	
	WLAN QOS	
WLAN QoS/WMM	WMM	
Storm Control		
Multicast/Broadcast Conversion to Unicast	Multicast/Broadcast Conversion to Unicast (Four-Address)	
Multicast/Broadcast Rate Increase	Three-Address Broadcast/Multicast Packet Rate: 11 Mbps	
Multicast/Broadcast Packet Suppression	Limiting the Rate of DHCP and ARP Broadcast Packets Limiting the Rate of SSDP and mDNS Multicast Packets Limiting the Rate of All Types of Broadcast Packets Limiting the Rate of All Types of Multicast Packets	
Monitoring		
WDS Link Quality	Displaying WDS Link Quality	
Real Topology	Displaying Real Topology	



	Software Feature		
	Networking		
Self-Organizing Network	Establishing a Self-Organizing Network Between Bridges		
	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 12 VDC Passive PoE		
Power Consumption	< 5W		
Environment	Operating temperature: -30°C to 60°C (-22°F ~ 140°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		
	RSSI		
RSSI	-58 dBm/100 meters -68 dBm/500 meters		
Camera Number			
3M	14/100 meters 5/500 meters		
4-5M	6/100 meters 3/500 meters		
6-7M	3/100 meters 1/500 meters		

## Package Contents

Package Dimension (w x d x h)

RG-EST100-E * 2
2
Power adapter * 2
1
852g

220 mm \* 202 mm \* 87 mm



Redefine your easy network

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