

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

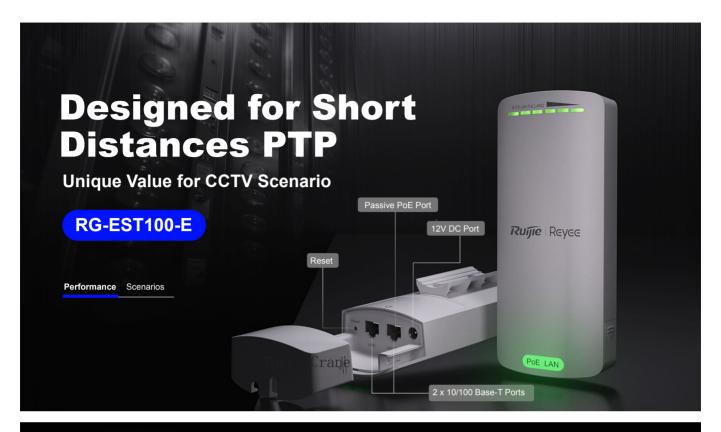
DATASHEET



/ 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 10 * 3MP cameras loading at 100m, 5 * 3MP cameras loading at 500m
- Visually Intuitive statistics monitoring on Ruijie cloud, easy maintenance at remotely

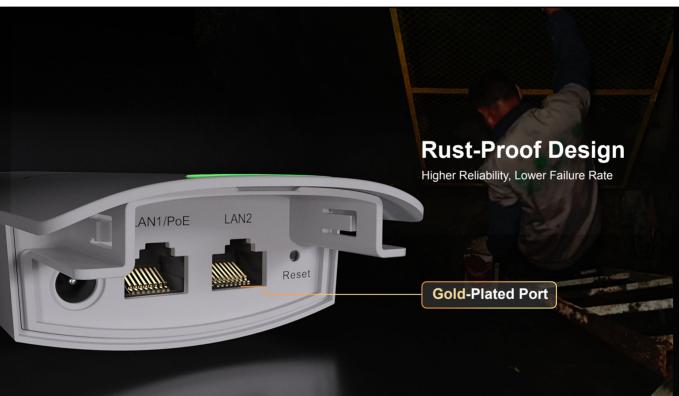
Highlight Features



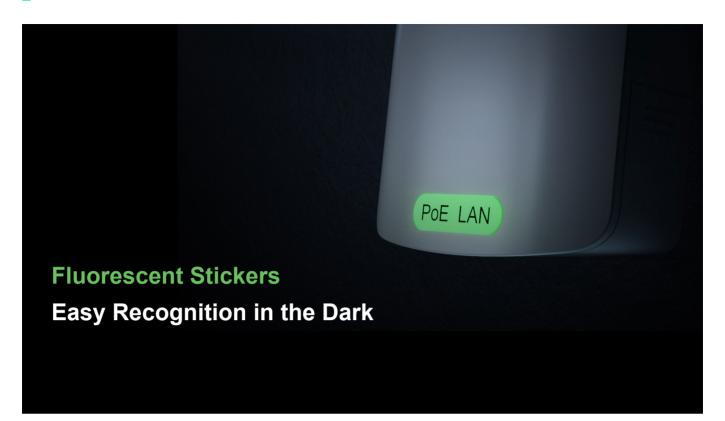


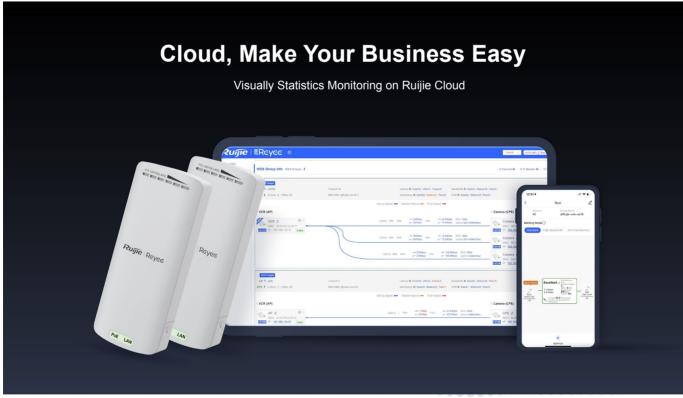
Highlight Features





Highlight Features







| | Specification | | |
|------------------------|--|--|--|
| | Basic | | |
| Radio Design | 2 GHz Single-Band Dual-Stream | | |
| Transmission Protocol | IEEE 802.11b/g/n | | |
| Operating Band | 802.11b/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 | ✓ |
| 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 | ✓ |
| 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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