

# RG-ES220GS-LP

## 20-Port Gigabit Smart Cloud Managed PoE Switch



### Highlights

- 20-port gigabit cloud managed switch with 16 PoE+ ports
- Cost-effective smart cloud managed switch
- IP Camera Recognition, unique value for CCTV network
- Automatic Loop Prevention, ensuring service continuity
- Lifetime management on Ruijie Cloud at anytime, anywhere

## Highlight Features

### RG-ES200 Series Switches

Gigabit access switch fits the needs in SMB network



802.3at / 802.3af



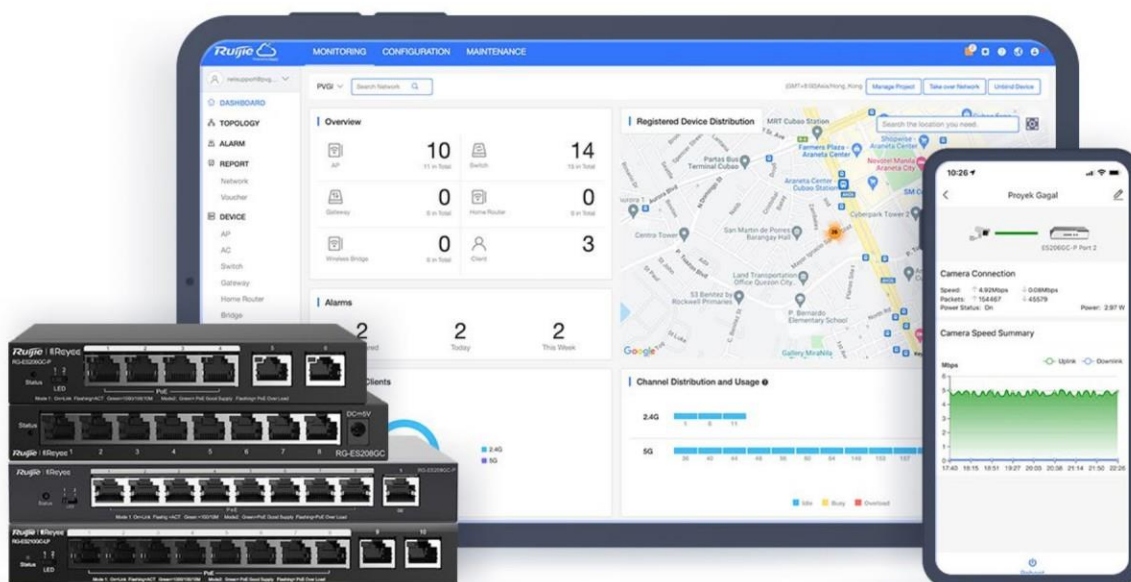
Abundant Application Scenarios



Centralized Cloud Management

### Cost-Effective Smart Cloud Managed Switches

ES200 adopts a light-weighted Cloud management design, providing faster response to support richer features.



IP Camera/NVR  
recognition



Automatic  
Loop Prevention



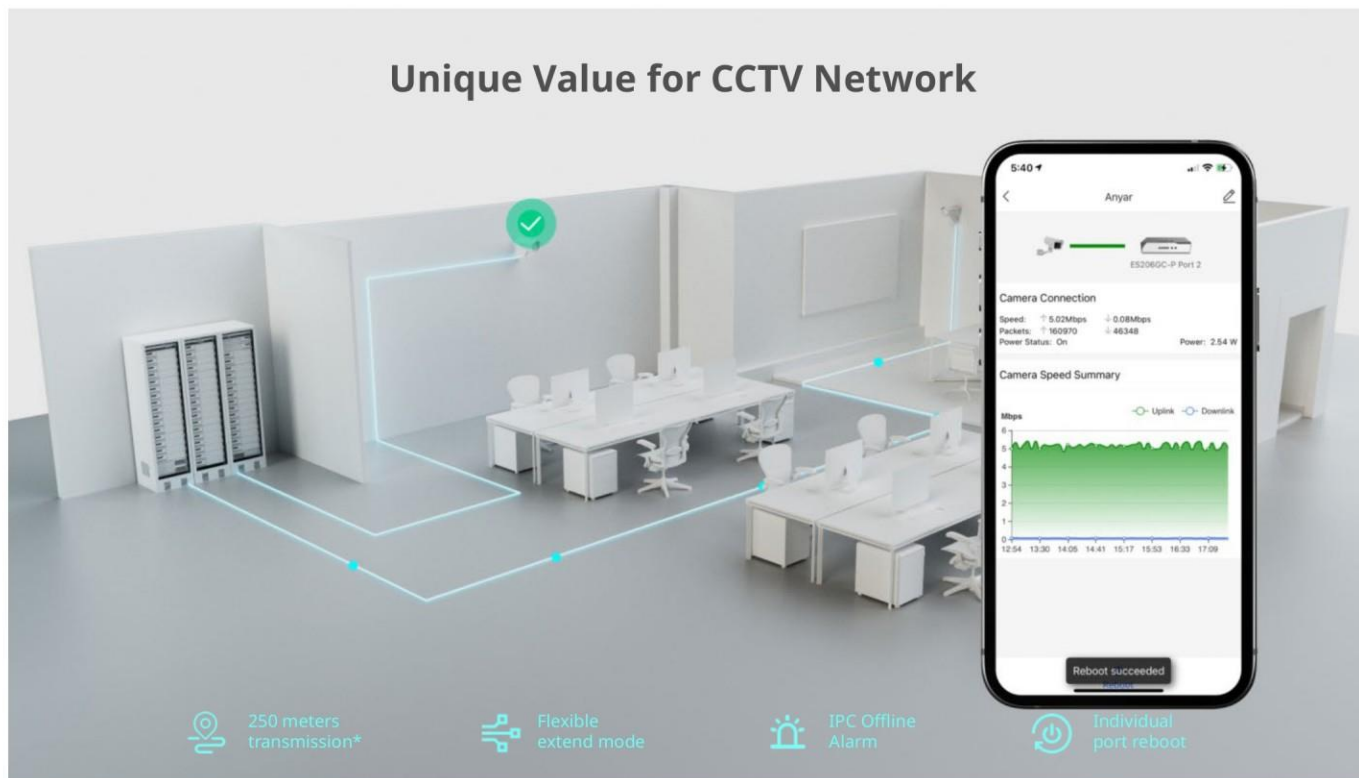
Mobile VLAN  
Configuration



Intelligent  
PoE Adaptive

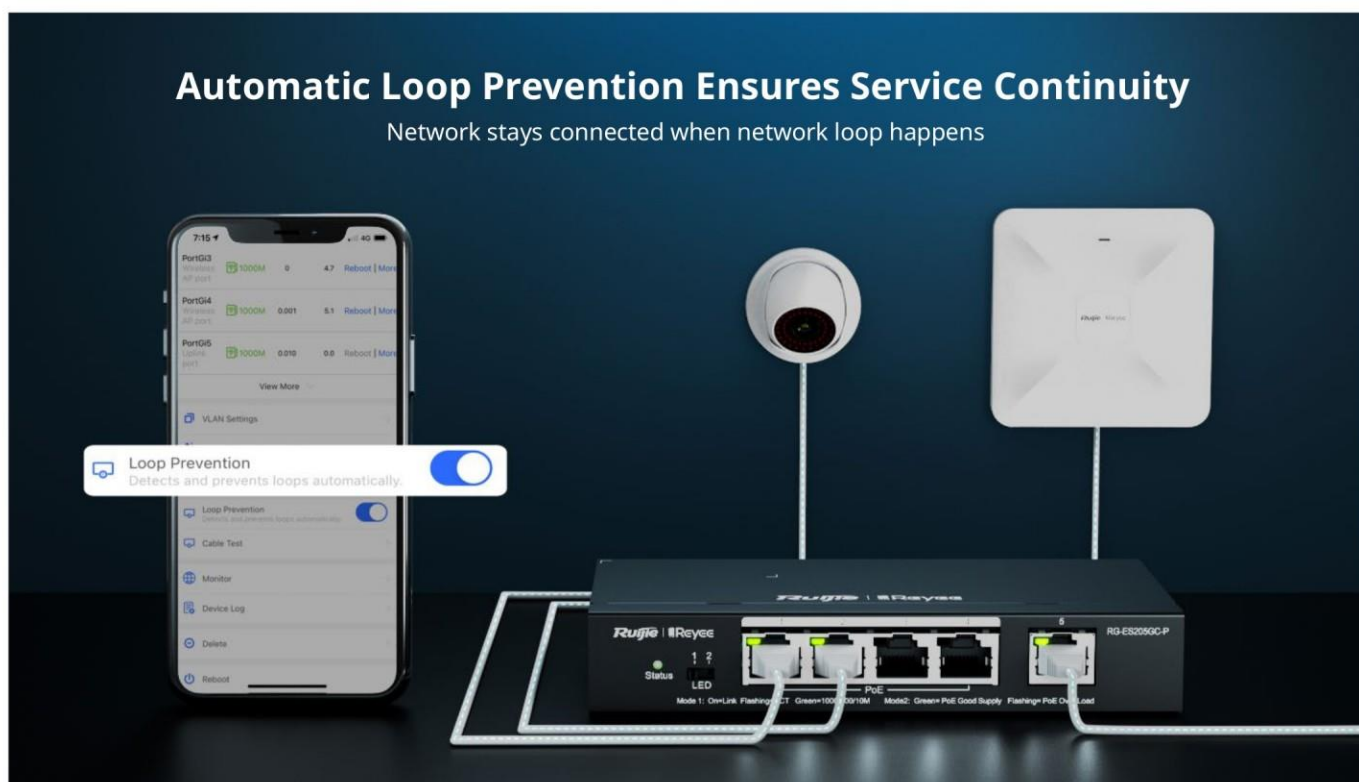
## Highlight Features

### Unique Value for CCTV Network



### Automatic Loop Prevention Ensures Service Continuity

Network stays connected when network loop happens



## Highlight Features

### **Cloud, Make Your Business Easy**

- SON, zero touch provisioning to Cloud
- Configure VLANs on Ruijie Cloud APP
- Monitor switch statistics at anytime anywhere
- Easy maintenance, save onsite time and cost



## / Product Information

| Model            | RG-ES220GS-LP |
|------------------|---------------|
| Product Category | Layer 2       |

## / Hardware Specifications

| Model                             | RG-ES220GS-LP                                                                                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Information               |                                                                                                                                                                                                                                      |
| Warranty                          | 3 years                                                                                                                                                                                                                              |
| Port Specifications               |                                                                                                                                                                                                                                      |
| Total number of RJ45 ports        | 18                                                                                                                                                                                                                                   |
| Total number of optical ports     | 2                                                                                                                                                                                                                                    |
| Number of 1GE SFP ports           | 2                                                                                                                                                                                                                                    |
| Number of 10/100/1000BASE-T ports | 18                                                                                                                                                                                                                                   |
| Reset button                      | 1                                                                                                                                                                                                                                    |
| Power Supply and Consumption      |                                                                                                                                                                                                                                      |
| PoE Out standard                  | PoE/PoE+ (IEEE 802.3af/at)                                                                                                                                                                                                           |
| Number of PoE Out ports           | 16                                                                                                                                                                                                                                   |
| Number of PoE/PoE+ Out ports      | 16                                                                                                                                                                                                                                   |
| PoE budget                        | 130 W                                                                                                                                                                                                                                |
| PoE power pins                    | 1–2 (+), 3–6 (-)                                                                                                                                                                                                                     |
| Power input                       | AC power supply: <ul style="list-style-type: none"><li>• Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz</li><li>• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li><li>• Rated input current: 3 A</li></ul> |
| Maximum power consumption         | Less than 15 W with no PoE load (110 V)<br>Less than 14 W with no PoE load (220 V)<br>Less than 160 W with PoE full load (110 V)<br>Less than 157 W with PoE full load (220 V)                                                       |
| Power supply                      | Fixed power supply                                                                                                                                                                                                                   |



# Hardware Specifications

| Model                                   | RG-ES220GS-LP                                                                                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| System Specifications                   |                                                                                                               |
| Flash memory                            | 8 MB                                                                                                          |
| Forwarding rate                         | 29.76 Mpps                                                                                                    |
| Switching capacity                      | 40 Gbps(bit/s)                                                                                                |
| Dimensions and Weight                   |                                                                                                               |
| Casing                                  | Metal                                                                                                         |
| Product dimensions (W x D x H)          | 300 mm x 223 mm x 43.6 mm (11.81 in. x 8.78 in. x 1.72 in.)                                                   |
| Weight                                  | 2.10 kg (4.63 lbs) (without packaging materials)<br>3.10 kg (6.83 lbs) (with packaging materials)             |
| Shipping weight                         | 3.10 kg (6.83 lbs)                                                                                            |
| Environment and Reliability             |                                                                                                               |
| Fan                                     | Fanless design                                                                                                |
| Cooling                                 | Natural cooling                                                                                               |
| Mounting options                        | Desk/Rack                                                                                                     |
| Hot swapping of cables                  | Hot swapping supported by the service port and power connector                                                |
| MTBF                                    | 200,000 hours                                                                                                 |
| Operating temperature                   | 0°C to 40°C (32°F to 104°F)                                                                                   |
| Storage temperature                     | −40°C to +70°C (−40°F to +158°F)                                                                              |
| Operating humidity                      | 10% RH to 90% RH (non-condensing)                                                                             |
| Storage humidity                        | 5% RH to 95% RH (non-condensing)                                                                              |
| Altitude                                | −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.)                                                          |
| ESD protection                          | Air discharge: 8 kV<br>Contact discharge: 6 kV                                                                |
| Surge protection                        | Service port: ±6 kV for common mode<br>Power connector: ±6 kV for common mode and ±6 kV for differential mode |
| Certification and Regulatory Compliance |                                                                                                               |

# / Hardware Specifications

| Model             | RG-ES220GS-LP                                                          |
|-------------------|------------------------------------------------------------------------|
| EMC               | EN 55032<br>EN IEC 61000-3-2<br>EN 61000-3-3<br>EN 55035<br>EN 300 386 |
| Safety compliance | EN 62368-1<br>IEC 62368-1                                              |
| Certification     | CE, CB                                                                 |

## Software Specifications

| Model                                                        | RG-ES220GS-LP |
|--------------------------------------------------------------|---------------|
| Authentication                                               |               |
| RADIUS                                                       | No            |
| 802.1X authentication                                        | No            |
| Basic Configurations                                         |               |
| PoE watchdog                                                 | Yes           |
| Uninterruptible power supply upon warm start                 | No            |
| Online upgrade                                               | Yes           |
| Ethernet Switching                                           |               |
| Maximum number of VLANs                                      | 16            |
| Maximum number of MAC address entries                        | 8000          |
| Interface flow control                                       | Yes           |
| IEEE 802.1Q VLAN                                             | Yes           |
| LLDP                                                         | No            |
| LLDP-MED                                                     | No            |
| Static MAC address                                           | Yes           |
| Static aggregation                                           | No            |
| LACP                                                         | No            |
| Inbound or outbound rate limiting based on interface traffic | Yes           |
| Gateway Features                                             |               |
| 802.1p priority-based traffic classification                 | No            |
| DSCP priority-based traffic classification                   | No            |
| Interface                                                    |               |



## Software Specifications

| Model                    | RG-ES220GS-LP |
|--------------------------|---------------|
| Jumbo frame length (MTU) | 10000 bytes   |
| EEE                      | Yes           |
| Cable test               | Yes           |
| IP Routing               |               |
| IPv4 static route        | No            |
| IPv6 static route        | No            |
| OSPFv2                   | No            |
| OSPFv3                   | No            |
| IP Service               |               |
| ARP                      | No            |
| IPv4 ping                | No            |
| IPv4 traceroute          | No            |
| ICMPv6                   | No            |
| IPv6 ping                | No            |
| IPv6 traceroute          | No            |
| DNS client               | Yes           |
| DHCP client              | Yes           |
| Multicast                |               |
| IGMPv1 snooping          | No            |
| IGMPv2 snooping          | No            |
| Basic IGMPv3 snooping    | No            |
| Full IGMPv3 snooping     | No            |
| IGMP filtering           | No            |
| IGMPv1, v2, and v3       | No            |

# Software Specifications

| Model                             | RG-ES220GS-LP |
|-----------------------------------|---------------|
| Network Management and Monitoring |               |
| Mirroring                         | Yes           |
| HTTP login                        | Yes           |
| HTTPS login                       | Yes           |
| SON                               | Yes           |
| Syslog                            | No            |
| Camera detection                  | Yes           |
| eWeb management                   | Yes           |
| Ruijie Cloud management           | Yes           |
| Ruijie Reyee App management       | Yes           |
| SNMPv1, v2c, and v3               | No            |
| Security                          |               |
| Port isolation                    | Yes           |
| Broadcast storm control           | Yes           |
| Multicast storm control           | Yes           |
| Unknown unicast storm control     | Yes           |
| DHCP snooping                     | Yes           |
| Standard ACL                      | No            |
| Extended MAC ACL                  | No            |
| Extended IP ACL                   | No            |
| IPv6 ACL                          | No            |
| ARP anti-spoofing                 | No            |
| CPU Protection Policy             | Yes           |
| System Performance Capacity       |               |

# Software Specifications

| Model                    | RG-ES220GS-LP                  |
|--------------------------|--------------------------------|
| Recommended camera limit | 200W H265: 80<br>400W H265: 40 |

## Package Contents

| Model                     | RG-ES220GS-LP                                        |
|---------------------------|------------------------------------------------------|
| Device                    |                                                      |
| Device                    | 1                                                    |
| Accessories               |                                                      |
| Rubber pad                | 4                                                    |
| Power cord retention clip | 1                                                    |
| Screw                     | 6 X M3 x 6 mm cross recessed countersunk head screws |
| Power cord                | 1 x 1.8 m (5.91 ft.)                                 |
| Rack-mount bracket        | 2                                                    |
| Manual                    |                                                      |
| User Manual               | 1                                                    |
| Warranty Card             | 1                                                    |

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**Ruijie Networks Co., Ltd.**

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