

# RG-ES228GS-LP

## 28-Port Gigabit Smart Cloud Managed PoE Switch



### Highlights

- 28-port gigabit cloud managed switch with 24 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



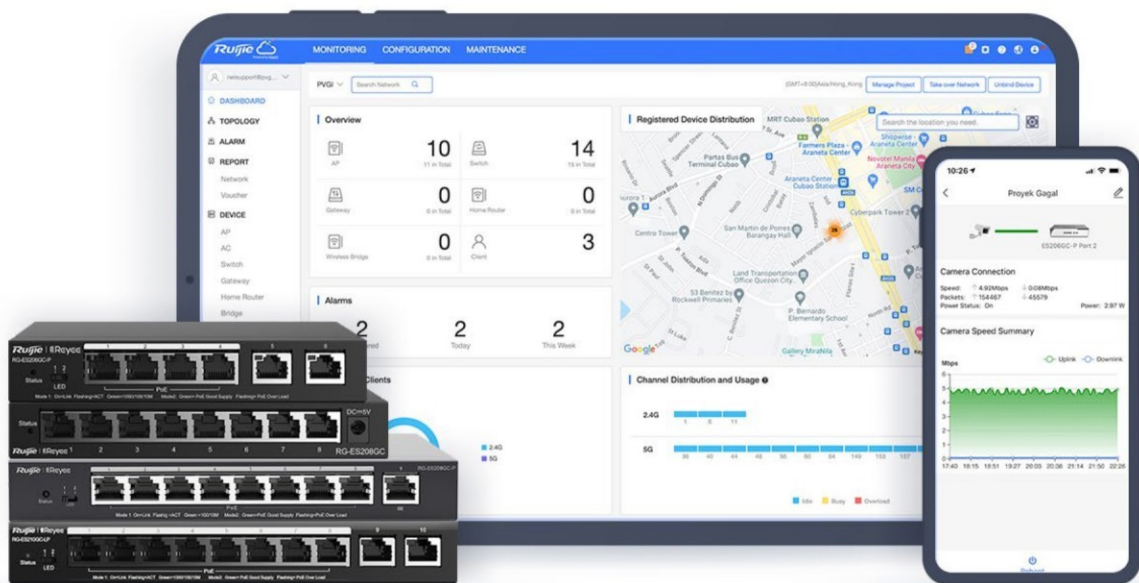
Abundant Application Scenarios



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



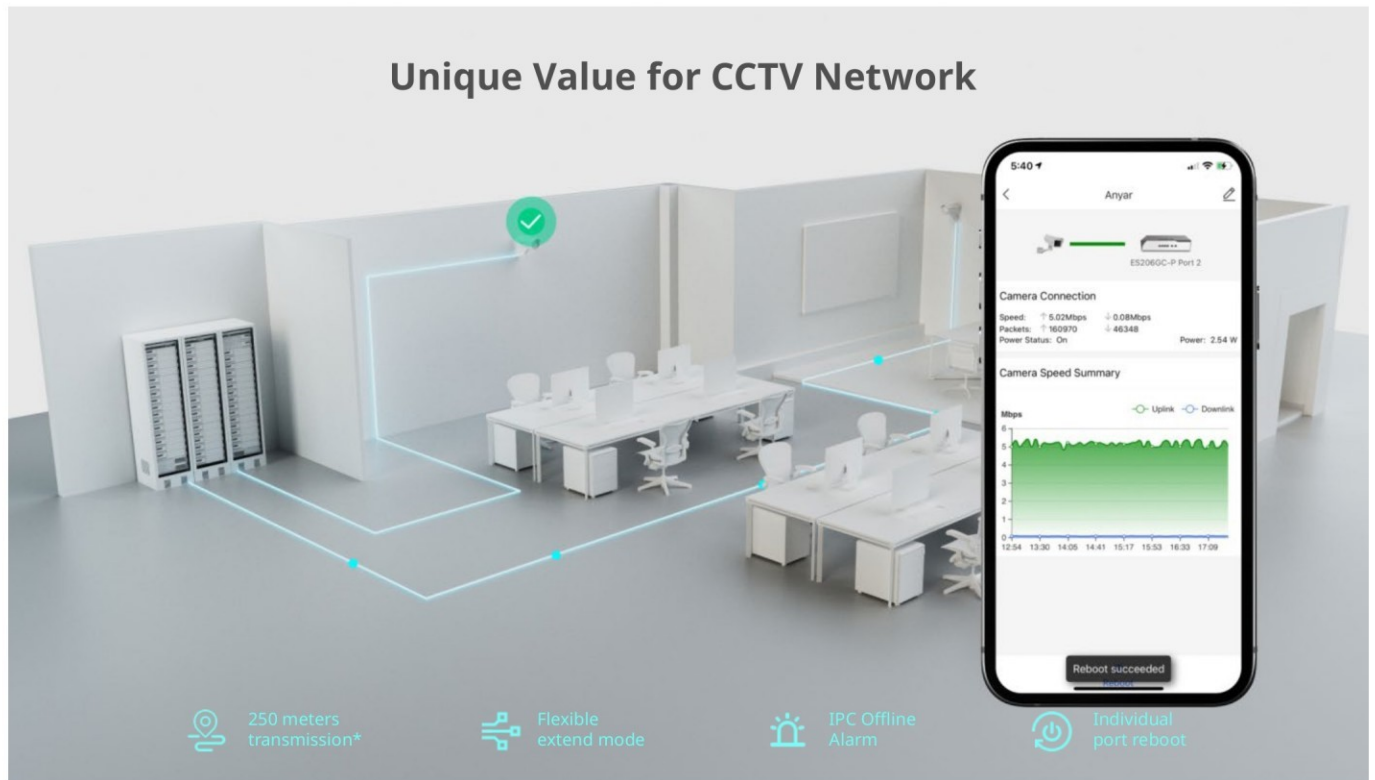
Mobile VLAN  
Configuration



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-ES228GS-LP
Product Category	Layer 2

## / Hardware Specifications

Model	RG-ES228GS-LP
Product Information	
Warranty	3 years
Port Specifications	
Total number of RJ45 ports	26
Total number of optical ports	2
Number of 1GE SFP ports	2
Number of 10/100/1000BASE-T ports	26
Reset button	1
Power Supply and Consumption	
PoE Out standard	PoE/PoE+ (IEEE 802.3af/at)
Number of PoE Out ports	24
Number of PoE/PoE+ Out ports	24
PoE budget	250 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: 6 A</li></ul>
Maximum power consumption	Less than 21 W with no PoE load (110 V) Less than 20 W with no PoE load (220 V) Less than 302 W with PoE full load (110 V) Less than 294 W with PoE full load (220 V)
Power supply	Fixed power supply

# / Hardware Specifications

Model	RG-ES228GS-LP
System Specifications	
Flash memory	8 MB
Forwarding rate	41.66 Mpps
Switching capacity	56 Gbps(bit/s)
Dimensions and Weight	
Casing	Metal
Product dimensions (W x D x H)	440 mm x 214.9 mm x 43.2 mm (17.32 in. x 8.46 in. x 1.70 in.)
Weight	2.80 kg (6.17 lbs) (without packaging materials) 3.85 kg (8.49 lbs) (with packaging materials)
Shipping weight	3.85 kg (8.49 lbs)
Environment and Reliability	
Fan	1 x fixed fan
Cooling	Air cooling, front-to-rear airflow
Acoustic noise	< 40 dB: 25°C(77°F)
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 Contact discharge: 6 kV
Surge protection	Service port: ±6 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode

# / Hardware Specifications

Model	RG-ES228GS-LP
Certification and Regulatory Compliance	
EMC	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386
Safety compliance	EN 62638-1
Certification	CE, CB

## Software Specifications

Model	RG-ES228GS-LP
Authentication	
RADIUS	No
802.1X authentication	No
Basic Configurations	
PoE watchdog	Yes
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	
Jumbo frame length (MTU)	10000 bytes
EEE	Yes



## Software Specifications

Model	RG-ES228GS-LP
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
Network Management and Monitoring	
Fan speed adjustment	Automatic speed adjustment

## Software Specifications

Model	RG-ES228GS-LP
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	
Recommended camera limit	200W H265: 80 400W H265: 40

The first part of the paper discusses the importance of the research and the objectives of the study. It highlights the need for a comprehensive understanding of the subject matter and the role of the researcher in this process. The second part of the paper presents the methodology used in the study, including the data collection methods and the analysis techniques. The third part of the paper discusses the results of the study and the conclusions drawn from the data. The final part of the paper provides a summary of the findings and offers suggestions for future research.

The research was conducted in a systematic and rigorous manner, following the principles of scientific inquiry. The data was collected from a representative sample of the population, and the analysis was performed using advanced statistical techniques. The results of the study are presented in a clear and concise manner, allowing for a thorough understanding of the findings. The conclusions drawn from the data are based on a careful interpretation of the results, taking into account the limitations of the study.

The findings of the study have important implications for the field of research. They provide a new perspective on the subject matter and offer valuable insights into the underlying mechanisms. The results also have practical applications, providing a basis for the development of new policies and programs. The study is a significant contribution to the field and will be of great interest to researchers and practitioners alike.

In conclusion, the study has successfully achieved its objectives and has provided a comprehensive understanding of the subject matter. The findings are robust and reliable, and the conclusions are well-supported by the data. The study is a model of scientific research and will serve as a valuable resource for future research in the field.

## Package Contents

Model	RG-ES228GS-LP
Device	
Device	1
Accessories	
Rubber pad	4
Power cord retention clip	1
Screw	6 X M4 x 8 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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