Reyee RG-ES100

Unmanaged Switches Datasheet

Product Photos
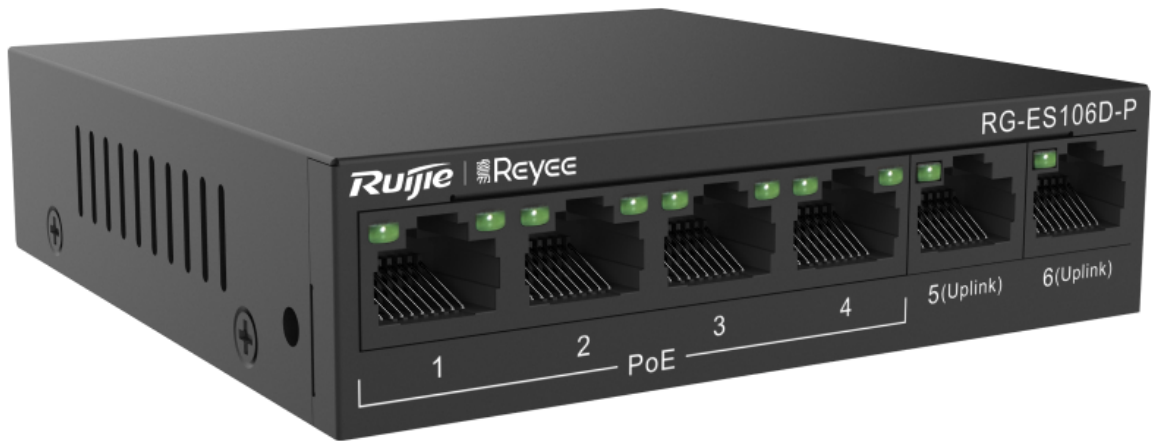
RG-ES106D-P

RG-ES110D-P

RG-ES118S-LP

RG-ES126S-LP

RG-ES116G

RG-ES124GD

1 Product Overview

Video surveillance has been widely popularized, and more and higher requirements are raised for surveillance security switches that are indispensable for video data transmission. Ruijie launches the Reyee RG-ES100 Series to provide customers with next-generation unmanaged surveillance security switches that feature diversified specifications, stable quality, and high-cost performance.

2 Product Features

PnP

The Plug and Play (PnP) feature allows you to set up a video surveillance transmission network by only powering on the RG-ES100 Series switches and correctly connecting the switches to IP cameras and digital video recorders (DVRs).

Easy Addition to Topology

If the Ruijie Cloud management platform is available, you can add the RG-ES100 Series to the topology manually or by scanning the QR code to conveniently output a complete topology.

High Selection Standards for Excellent Quality and Stability

The RG-ES100 Series is composed of key components selected based on strict requirements, such as the power supply, capacitors, and resistors. In addition, specifications related to lightning protection of the power supply, surge protection of ports, and lifespans of capacitors and resistors are strictly controlled and tested to provide reliable and easy-to-use products for customers.

High-standard Lightning Protection Design for Superb Stability

The RG-ES100 Series provides up to 6 kV lightning protection for ports of PoE switches, and up to 4 kV lightning protection for ports of non-PoE switches. The high-standard lightning protection design can reduce the probability of port damage caused by lightening surge and improve stability of customer networks.

Large Cache for Smooth HD Videos

Based on characteristics of video transmission, the RG-ES100 Series employs a large cache to properly handle traffic bursts in video surveillance and avoid video freezing.

Powerful Functions

The RG-ES100 Series unmanaged switches support switching among the flow control, port isolation, and normal modes, and support smart PoE and PoE+.

Diversified Product Forms

The RG-ES100 Series supports diversified product forms:

- Mounting: desktop or rack-mount.
- Ports: 6 to 26 ports.
- Functions: PoE and non-PoE.

These diversified product forms help customers cope with the stringent requirements of different projects.

Wide Application Scenarios

The RG-ES100 Series can be used to access the networks, cameras, and video intercom systems in campuses, equipment rooms, factories, office buildings, residential areas, parking lots, and other video surveillance environments.

3 Technical Specifications

Model	RG-ES106D-P	RG-ES110D-P	RG-ES118S-LP	RG-ES126S-LP
Hardware specifications				
Ports	4*10/100 Mbps PoE/PoE+ Ports	8*10/100 Mbps PoE/PoE+ Ports	16*10/100 Mbps PoE/PoE+ Ports	24*10/100 Mbps PoE/PoE+ Ports
	2*10/100 Mbps uplink ports	2*10/100/1000 Mbps uplink ports	2*10/100/1000 Mbps combo ports	1*10/100/1000 Mbps uplink port 1*10/100/1000 Mbps combo port
Operating mode	Half-duplex, full-duplex, auto-negotiation mode Support auto MDI/MDIX			
Switching capacity	1.2Gbps	5.6Gbps	7.2Gbps	8.8Gbps
Package forwarding rate	0.89Mpps	4.17Mpps	5.36Mpps	6.55Mpps
Power supply	100-240V AC			
Surge protection	Adapter: Common mode: ±4 kV Differential mode: ±2 kV Network ports: Non-PoE ports: ±4 kV PoE ports: ±6 kV		Switch-mode power supply: Common mode: ±6 kV Differential mode: ±6 kV Network ports: Non-PoE ports: ±4 kV PoE ports: ±6 kV	
Port Mode	"Flow Control On" "Flow Control Off" "Port Isolation" from left to right			
Power consumption	67W	129W	148W	220W
PoE power budget	58W	110W	120W	180W
Fan	NA	NA	NA	Support
Dimensions (W x D x H)	100 x 100 x 26 mm	190 x 100 x 28 mm	440 x 208 x 44 mm	440 x 180 x 44 mm
Operating temperature	0℃ to 45℃			
Storage temperature	-40℃ to 70℃			
Operating humidity	10% to 90% RH			
Storage humidity	5% to 95% RH			

Model	RG-ES109G-LP-L	RG-ES126G-LP-L	RG-ES126G-P-L
Hardware specifications			
Ports	8*10/100/1000 Mbps PoE/PoE+ Ports	24*10/100/1000 Mbps PoE/PoE+ Ports	24*10/100/1000 Mbps PoE/PoE+ Ports
	1*10/100/1000 Mbps uplink port	2*1000Mbps SFP port	2*1000Mbps SFP port
Operating mode	Half-duplex, full-duplex, auto-negotiation mode Support auto MDI/MDIX		
Switching capacity	18Gbps	52Gbps	52Gbps
Package forwarding rate	13.5Mpps	39Mpps	39Mpps
Power supply	100-240V AC		
Surge protection	Adapter: Common mode: ±4 kV Differential mode: ±2 kV Network ports: Non-PoE ports: ±4 kV PoE ports: ±6 kV	Switch-mode power supply: Common mode: ±6 kV Differential mode: ±6 kV Network ports: Non-PoE ports: ±4 kV PoE ports: ±6 kV	
Port Mode	"Flow Control On" "Flow Control Off" "Port Isolation" from left to right		
Power consumption	64W	220W	430W
PoE power budget	54W	180W	370W
Fan	NA	Support	Support
Dimensions (W x D x H)	206.5 x 108.5 x 28mm	440 x 205 x 43.6mm	440 x 205 x 43.6mm
Operating temperature	0℃ to 45℃		
Storage temperature	-40℃ to 70℃		
Operating humidity	5% to 90% RH		
Storage humidity	5% to 95% RH		

Model	ES105D	ES108D	ES105GD	ES108GD
Hardware specifications				
Ports	5*10/100Mbps RJ45 ports	8*10/100Mbps RJ45 ports	5*10/100/1000Mbps RJ45 ports	8*10/100/1000Mbps RJ45 ports
Operating mode	Half-duplex, full-duplex, auto-negotiation mode			
	Support auto MDI/MDIX			
Switching capacity	1Gbps	1.6Gbps	10Gbps	16Gbps
Package forwarding rate	744Kpps	1.19Mpps	7.44Mpps	11.9Mpps
MAC address	1K	2K	2K	8K
Power supply	External 5VDC 1.0A	External 5VDC 1.0A	External 5VDC 1.0A	External 5VDC 1.0A
Port Mode	N/A			
Power consumption	≤5W			
PoE	Not support			
Fan	N/A	N/A	N/A	N/A
Dimensions (W x D x H)	119 x 62 x 24mm	160 x 75 x 24mm	119 x 62 x 24mm	160 x 75 x 24mm
Operating temperature	0°C to 40°C			
Storage temperature	-40°C to 70°C			
Operating humidity	10% to 90% RH			
Storage humidity	5% to 90% RH			

Model	RG-ES116G	RG-ES124GD
Hardware specifications		
Ports	16*10/100/1000 Mbps ports	24*10/100/1000 Mbps ports
Operating mode	Half-duplex, full-duplex, auto-negotiation mode	
	Support auto MDI/MDIX	
Switching capacity	32Gbps	48Gbps
Package forwarding rate	23.81Mpps	35.71Mpps
MAC address	8K	8K
Power supply	100-240V AC	100-240V AC
Port Mode	"Flow Control On", "Flow Control Off", "Port Isolation", "Extend Data Transmission-10Mbps" from left to right	
Power consumption	11W	16W
PoE	Not support	
Fan	N/A	N/A
Dimensions (W x D x H)	280 x 126 x 44mm	280 x 126 x 44mm
Operating temperature	0℃ to 45℃	
Storage temperature	-40℃ to 70℃	
Operating humidity	10% to 90% RH	
Storage humidity	5% to 95% RH	

4 Ordering Information

Model	Description
RG-ES106D-P	4 x 100M copper ports and 2 x 100M uplink copper ports: 4 ports for PoE/PoE+, with the maximum PoE power up to 58 W; unmanaged switch; desktop type.
RG-ES110D-P	8 x 100M copper ports and 2 x 1000M uplink copper ports: 8 ports for PoE/PoE+, with the maximum PoE power up to 110 W; unmanaged switch; desktop type.
RG-ES118S-LP	16 x 100M copper ports and 2 x 1000M uplink SFP combo ports: 16 ports for PoE/PoE+, with the maximum PoE power up to 120 W; unmanaged switch; rack-mount supported.
RG-ES126S-LP	24 x 100M copper ports, 1 x 1000M uplink copper port, and 1 x 1000M uplink SFP combo port: 24 ports for PoE/PoE+, with the maximum PoE power up to 180 W; unmanaged switch; rack-mount supported.
RG-ES109G-LP-L	Unmanaged Switch, 9 10/100/1000BASE-T ports, external AC-DC power adaptor, support PoE/ PoE+, PoE power budget: 54W
RG-ES126G-LP-L	Unmanaged Switch, 24 10/100/1000BASE-T ports, 2 1000M SFP ports, AC power supply, support PoE/ PoE+, PoE power budget: 180W
RG-ES126G-P-L	Unmanaged Switch, 24 10/100/1000BASE-T ports, 2 1000M SFP ports, AC power supply, support PoE/ PoE+, PoE power budget: 180W
RG-ES105D	5 10/100M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES108D	8 10/100M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES105GD	5 10/100/1000M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES108GD	8 10/100/1000M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES116G	16 10/100/1000M copper ports; unmanaged switch; desktop type; rack-mount supported.
RG-ES124GD	24 10/100/1000M copper ports; unmanaged switch; desktop type; rack-mount supported.