



Reyee RG-ES100

Unmanaged Switches Datasheet

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Product Photos



RG-ES106D-P



RG-ES110D-P



RG-ES118S-LP



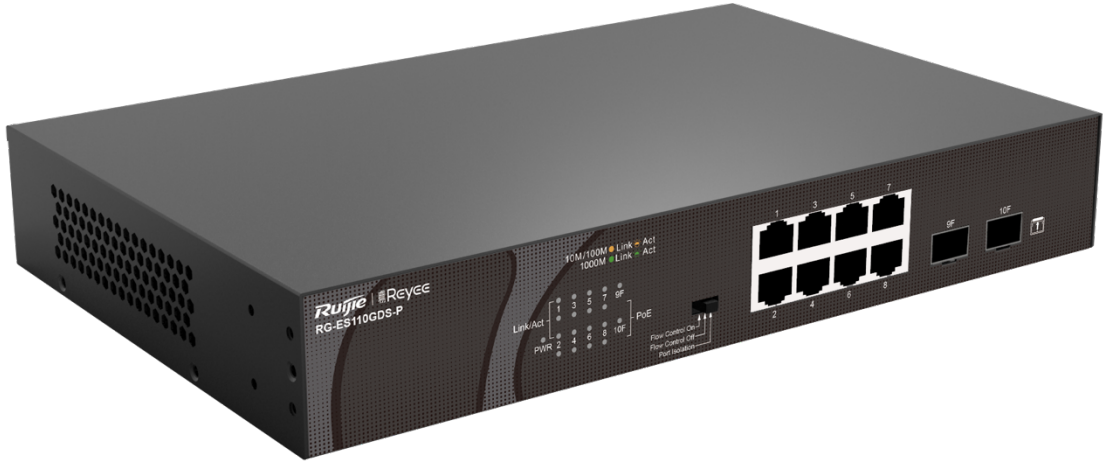
RG-ES126S-LP



RG-ES116G



RG-ES124G



RG-ES110GDS-P



RG-ES118GS-P

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

Specification	RG-ES105D	RG-ES108D	RG-ES106D-P (End of Sale)
Basic			
Downlink Ports	5 x 10/100BASE-TX	8 x 10/100BASE-TX	4 x 10/100BASE-TX
Uplink Ports	-	-	2 x 10/100BASE-TX
PoE/PoE+ ports	-	-	4
Max. PoE budget	-	-	58W
Layer Type	Unmanaged	Unmanaged	Unmanaged
Switching capacity	1 Gbps	1.6 Gbps	1.2 Gbps
Forwarding rate	0.74 Mpps	1.19 Mpps	0.89 Mpps
MAC address table	1000	2000	1000
Dimensions (W x D x H)	119 mm x 75 mm x 24 mm	160 mm x 75 mm x 24 mm	100 mm x 100 mm x 26 mm
Weight (With package)	0.25 kg	0.35 kg	0.66 kg
Warranty	3 Years	3 Years	3 Years
Software Features			
Auto/Full/Half Duplex Negotiation	✓	✓	✓
Auto MDI/MDIX	✓	✓	✓
Switching model	Store-and-forward	Store-and-forward	Store-and-forward
Cloud Management	Cloud monitoring	Cloud monitoring	Cloud monitoring
Hardware Features			
Reset Button	-	-	-
Flow Control	-	-	✓
Port Isolation	-	-	✓
Power Consumption	≤5W	≤5W	< 67W
Power Supplies	5V power adapter, 1A	5V power adapter, 1A	51V DC Power adapter, 1.25A
Surge Protection	6kV	6kV	6kV
Fan	Fanless	Fanless	Fanless
Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 45°C (32°F to 109°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% RH to 90% RH	10% RH to 90% RH	10% RH to 90% RH
Storage Humidity	5% RH to 95% RH	5% RH to 95% RH	5% RH to 95% RH
Certificate	CE, RoHS	CE, RoHS	CE, RoHS

Specification	RG-ES110D-P	RG-ES118S-LP	RG-ES126S-LP (End of Sale)
Basic			
Downlink Ports	8 x 10/100BASE-TX	16 x 10/100BASE-TX	24 x 10/100BASE-TX
Uplink Ports	2 x 10/100/1000BASE-T	2 x 10/100/1000BASE-T Combo	2 x 10/100/1000BASE-T with 1 Combo
PoE/PoE+ ports	8	16	24
Max. PoE budget	110W	120W	180W
Layer Type	Unmanaged	Unmanaged	Unmanaged
Switching capacity	5.6 Gbps	7.2 Gbps	8.8 Gbps
Forwarding rate	4.17 Mpps	5.36 Mpps	6.55 Mpps
MAC address table	2000	8000	8000
Dimensions (W x D x H)	190 mm x 100 mm x 28 mm	440 mm x 208 mm x 44 mm	440 mm x 208 mm x 44 mm
Weight (With package)	1.3 kg	3.4 kg	3 kg
Warranty	3 Years	3 Years	3 Years
Software Features			
Auto/Full/Half Duplex Negotiation	✓	✓	✓
Auto MDI/MDIX	✓	✓	✓
Switching model	Store-and-forward	Store-and-forward	Store-and-forward
Cloud Management	Cloud monitoring	Cloud monitoring	Cloud monitoring
Hardware Features			
Reset Button	-	-	-
Flow Control	✓	✓	✓
Port Isolation	✓	✓	✓
Power Consumption	<129W	<148W	<220W
Power Supplies	53V DC Power adapter, 2.24A	100V AC to 240V AC, 2.5A	100V AC to 240V AC, 4A
Surge Protection	6kV	6kV	6kV
Fan	Fanless	Fanless	Support
Operating Temperature	0°C to 45°C (32°F to 109°F)	0°C to 45°C (32°F to 109°F)	0°C to 45°C (32°F to 109°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% RH to 90% RH	10% to 90% RH	10% to 90% RH
Storage Humidity	5% RH to 95% RH	5% to 95% RH	5% to 95% RH
Certificate	CE, RoHS	CE, RoHS	CE, RoHS

Specification	RG-ES105GD	RG-ES108GD	RG-ES109G-LP-L (End of Sale)
Basic			
Downlink Ports	5 x 10/100/1000BASE-T	8 x 10/100/1000BASE-T	8 x 10/100/1000BASE-T
Uplink Ports	-	-	1 x 10/100/1000BASE-T
PoE/PoE+ ports	-	-	8
Max. PoE budget	-	-	54W
Layer Type	Unmanaged	Unmanaged	Unmanaged
Switching capacity	10 Gbps	16 Gbps	18 Gbps
Forwarding rate	7.44 Mpps	11.9 Mpps	13.5 Mpps
MAC address table	2000	4000	8000
Dimensions (W x D x H)	19 mm x 62 mm x 24 mm	160 mm x 75 mm x 24 mm	206.5 mm x 108.5 mm x 28 mm
Weight (With package)	0.25 kg	0.35 kg	1.1 kg
Warranty	3 Years	3 Years	3 Years
Software Features			
Auto/Full/Half Duplex Negotiation	✓	✓	✓
Auto MDI/MDIX	✓	✓	✓
Switching model	Store-and-forward	Store-and-forward	Store-and-forward
Cloud Management	Cloud monitoring	Cloud monitoring	Cloud monitoring
Hardware Features			
Reset Button	-	-	-
Flow Control	-	-	✓
Port Isolation	-	-	✓
Power Consumption	≤5W	≤5W	≤64W
Power Supplies	5V power adapter, 1A	5V power adapter, 1A	54V DC Power adapter, 1.11A
Surge Protection	6kV	6kV	6kV
Fan	Fanless	Fanless	Fanless
Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 45°C (32°F to 109°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% to 90% RH	10% to 90% RH	10% to 90% RH
Storage Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH
Certificate	CE, RoHS	CE, RoHS	CE, RoHS

Specification	RG-ES110GDS-P	RG-ES116G	RG-ES118GS-P
Basic			
Downlink Ports	8 x 10/100/1000BASE-T	16 x 10/100/1000BASE-T	16 x 10/100/1000BASE-T
Uplink Ports	2 x 1000BASE-X SFP	-	2 x 1000BASE-X SFP
PoE/PoE+ ports	8	-	8
Max. PoE budget	120W	-	247W
Layer Type	Unmanaged	Unmanaged	Unmanaged
Switching capacity	20 Gbps	32 Gbps	36 Gbps
Forwarding rate	14.88 Mpps	23.81 Mpps	26.78 Mpps
MAC address table	4000	8000	8000
Dimensions (W x D x H)	280 mm x 180 mm x 44 mm	280 mm x 126 mm x 44 mm	440 mm x 240 mm x 44 mm
Weight (With package)	2.26 kg	1.75 kg	4.0 kg
Warranty	3 Years	3 Years	3 Years
Software Features			
Auto/Full/Half Duplex Negotiation	✓	✓	✓
Auto MDI/MDIX	✓	✓	✓
Switching model	Store-and-forward	Store-and-forward	Store-and-forward
Cloud Management	Cloud monitoring	Cloud monitoring	Cloud monitoring
Hardware Features			
Reset Button	-	-	-
Flow Control	✓	✓	✓
Port Isolation	✓	✓	✓
Power Consumption	≤130W	≤11W	≤285W
Power Supplies	100V AC to 240V AC, 2.5A	100V AC to 240V AC, 0.5A	100V AC to 240V AC, 3.5A
Surge Protection	6kV	6kV	6kV
Fan	Fanless	Fanless	Support
Operating Temperature	0°C to 45°C (32°F to 109°F)	0°C to 45°C (32°F to 109°F)	0°C to 45°C (32°F to 109°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% to 90% RH	10% to 90% RH	10% to 90% RH
Storage Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH
Certificate	CE, RoHS	CE, RoHS	CE, RoHS

Specification	RG-ES124GD	RG-ES126G-LP-L (End of Sale)	RG-ES126G-P-L (End of Sale)
Basic			
Downlink Ports	24 x 10/100/1000BASE-T	24 x 10/100/1000BASE-T	24 x 10/100/1000BASE-T
Uplink Ports	-	2 x 1000BASE-X SFP	2 x 1000BASE-X SFP
PoE/PoE+ ports	-	24	24
Max. PoE budget	-	180W	370W
Layer Type	Unmanaged	Unmanaged	Unmanaged
Switching capacity	48 Gbps	52 Gbps	52 Gbps
Forwarding rate	35.71 Mpps	38.7 Mpps	38.7 Mpps
MAC address table	8000	8000	8000
Dimensions (W x D x H)	280 mm x 126 mm x 44 mm	440 mm x 208 mm x 44 mm	440 mm x 292 mm x 44 mm
Weight (With package)	1.76 kg	4.2 kg	4.2 kg
Warranty	3 Years	3 Years	3 Years
Software Features			
Auto/Full/Half Duplex Negotiation	✓	✓	✓
Auto MDI/MDIX	✓	✓	✓
Switching model	Store-and-forward	Store-and-forward	Store-and-forward
Cloud Management	Cloud monitoring	Cloud monitoring	Cloud monitoring
Hardware Features			
Reset Button	-	-	-
Flow Control	✓	✓	✓
Port Isolation	✓	✓	✓
Power Consumption	≤16W	≤200W	≤430W
Power Supplies	100V AC to 240V AC, 0.5A	100V AC to 240V AC, 3A	100V AC to 240V AC, 6A
Surge Protection	6kV	6kV	6kV
Fan	Fanless	Support	Support
Operating Temperature	0°C to 45°C (32°F to 109°F)	0°C to 45°C (32°F to 109°F)	0°C to 45°C (32°F to 109°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% to 90% RH	10% to 90% RH	10% to 90% RH
Storage Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH
Certificate	CE, RoHS	CE, RoHS	CE, RoHS

4 Ordering Information

Model	Description
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-ES105D	5 x 10/100M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES108D	8 x 10/100M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES105GD	5 x 10/100/1000M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES108GD	8 x 10/100/1000M RJ45 ports, metal casing, external 5VDC 1.0A power adapter
RG-ES110GDS-P	8 x 10/100/1000M copper ports and 2 x 1000M uplink SFP ports: 8 ports for PoE/PoE+, with the maximum PoE power up to 120 W; unmanaged switch;
RG-ES116G	16 x 10/100/1000M copper ports; unmanaged switch; desktop type; rack-mount supported.
RG-ES118GS-P	16 x 110/100/1000M copper ports and 2 x 1000M uplink SFP combo ports: 16 ports for PoE/PoE+, with the maximum PoE power up to 247 W; unmanaged switch;
RG-ES124GD	24 10/100/1000M copper ports; unmanaged switch; desktop type; rack-mount supported.



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