RG-ES118FGS-LP

# 16-Port 10/100 Mbps with 2-Port 10/100/1000 Mbps, 2 Combo Ports Unmanaged PoE Switch

Highlights

- 16-port 10/100 Mbps with 2-port 10/100/1000 Mbps, 2 combo ports unmanaged PoE switch

- Unmanaged switch, which is visible on Ruijie Cloud

- Intelligent and secure CCTV network
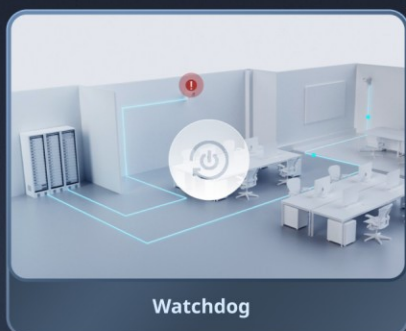
- Intelligent PoE Management

- High-quality design

Date: 2025.10.24

Highlight Features

Unmanaged Switch, Which Is Visible on Ruijie Cloud*

* If an unmanaged switch needs to be visualized on Ruijie Cloud, at least one managed switch needs to be deployed on the same network
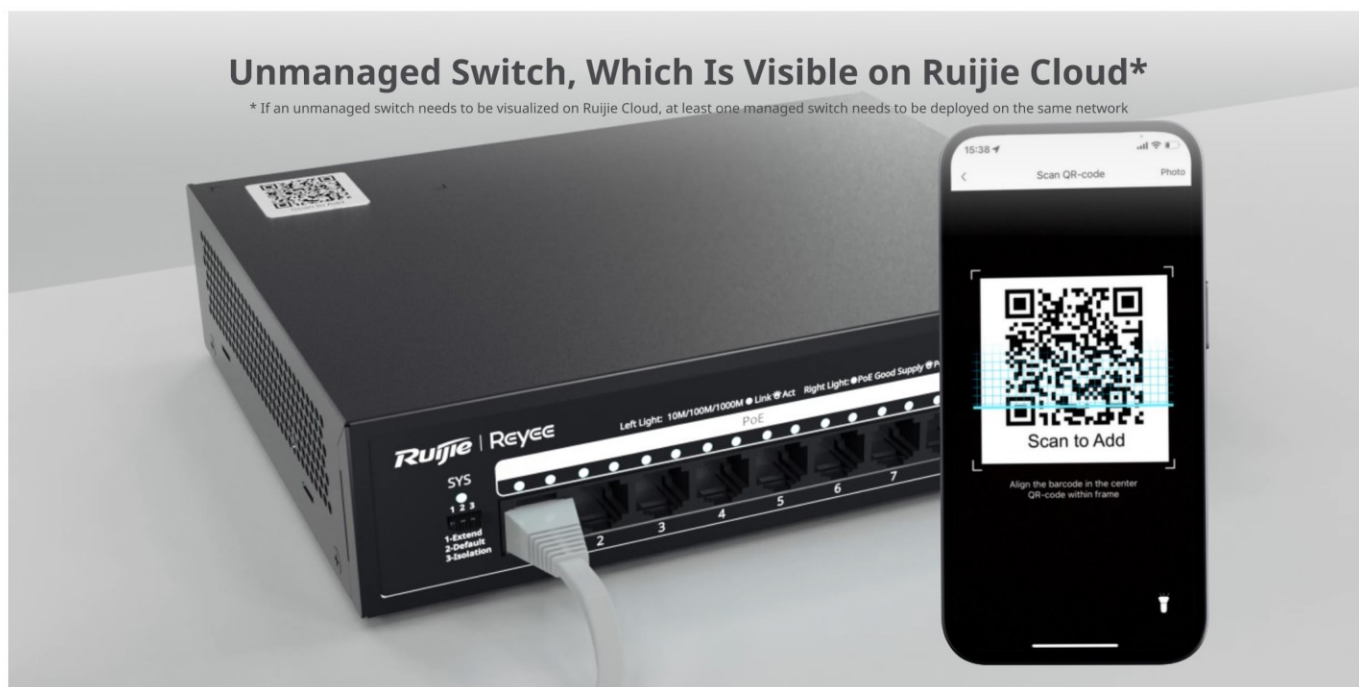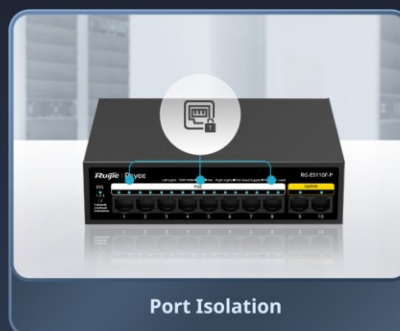

Intelligent and Secure CCTV Network

Watchdog

Extend Mode

Port Isolation

PoE Auto Recovery

250 Meters Transmission

Flexible Extend mode

Higher Security

/ Highlight Features

Intelligent PoE Management
Fit for various powered devices up to 30W

5W MAX	9W MAX	12.95W MAX	24W MAX
Wall AP	IP Camera	Ceilling AP	IP PTZ Camera

RG-ES126FGS-P

High-quality Makes Network Reliable
Stable without frequent reboot

Cloud Make Your
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RG-ES110D-P

Fanless, Quiet   Green (802.3az)   Energy Saving

Highlight Features

Better Quality Design

Strict standards in PCB design and component selection

Adopt high-quality Japanese capacitor to double the battery lifespan, offering reliable experience.

The built-in MCU of the PoE module enables smart power distribution.
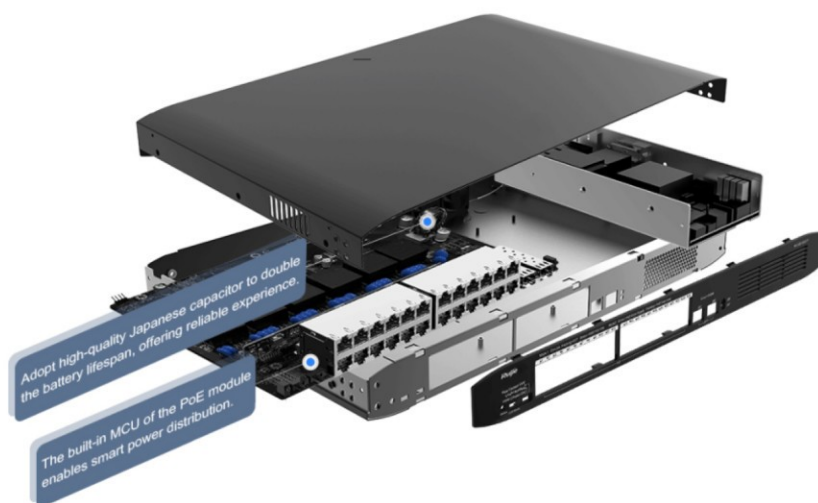
Designed for Various Scenarios

Home Office

Cafe Shop

Retail

Outdoor Surveillance
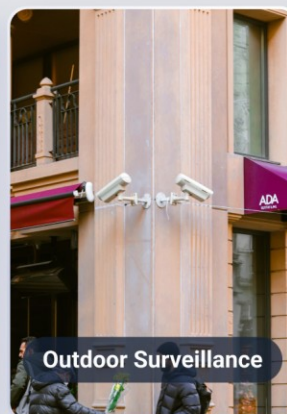
Product Information

Model	RG-ES118FGS-LP
Product Category	Layer 2

Hardware Specifications

Model	RG-ES118FGS-LP
Product Information	
Warranty	3 years
Port Specifications	
Total number of RJ45 ports	18
Total number of optical ports	2
Number of 1GE combo ports	2
Number of 1GE SFP ports	2
Number of 10/100BASE-T ports	16
Number of 10/100/1000BASE-T ports	2
Ultra-long-haul transmission	Yes
DIP switch	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required). Flow control on. Default mode: All ports can communicate with each other. Flow control on. Isolation mode: Ports 1 to 16 cannot communicate with each other, but they can communicate with ports 17 and 18. Flow control on.
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	120 W

Hardware Specifications

Model	RG-ES118FGS-LP
PoE power pins	1–2 (+), 3–6 (-)
Power input	220 V AC power supply: ● Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz ● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz ● Rated input current: 3 A
Maximum power consumption	10 W (with no PoE load) 130 W (with PoE full load)
Power supply	Fixed power supply
System Specifications	
Flash memory	4 MB
Forwarding rate	5.3 Mpps
Switching capacity	7.2 Gbps(bit/s)
Dimensions and Weight	
Casing	Metal
Product dimensions (W x D x H)	440 mm x 214.9 mm x 44 mm (17.32 in. x 8.46 in. x 1.73 in.)
Weight	2.46 kg (5.42 lbs) (without packaging materials) 3 kg (6.61 lbs) (with packaging materials)
Shipping weight	3 kg (6.61 lbs)
Environment and Reliability	
Fan	Fanless design
Cooling	Natural cooling
Acoustic noise	< 40 dB: 25℃(77°F)
Mounting options	Rack
Hot swapping of cables	Hot swapping supported by the service port and power connector
MTBF	200,000 hours
Operating temperature	0°C to 45°C (32°F to 113°F)
Storage temperature	−40°C to +70°C (−40°F to +158°F)

Hardware Specifications

Model	RG-ES118FGS-LP
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: ±4 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode
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, FCC

Software Specifications

Model	RG-ES118FGS-LP
Basic Configurations	
PoE watchdog	Yes
Ethernet Switching	
Maximum number of MAC address entries	8000
Interface flow control	Yes
LLDP	No
LLDP-MED	No
Static aggregation	No
LACP	No
Interface	
Jumbo frame length (MTU)	2048 bytes
IP Service	
IPv4 ping	No
IPv4 traceroute	No
ICMPv6	No
IPv6 ping	No
IPv6 traceroute	No
Multicast	
IGMPv1 snooping	No
IGMPv2 snooping	No
Basic IGMPv3 snooping	No
Full IGMPv3 snooping	No
IGMP filtering	No

Software Specifications

Model	RG-ES118FGS-LP
Security	
Port isolation	Yes
System Performance Capacity	
Recommended camera limit	200W H265: 40 400W H265: 20

/ Package Contents

Model	RG-ES118FGS-LP
Accessories	
Screw	6 X M4 x 8 mm cross recessed countersunk head screws
Rack-mount bracket	2
Manual	
User Manual	1
Warranty Card	1

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