

RG-ES220GS-LP RG-ES228GS-LP

Smart Cloud Managed PoE Switch

DATASHEET

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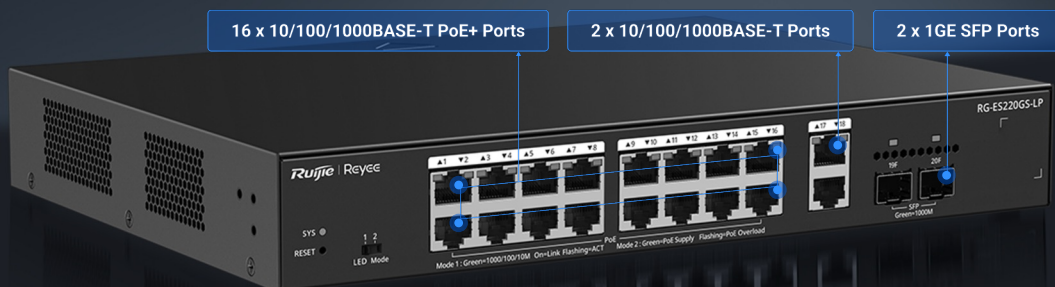
Highlights

- 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-ES220GS-LP 20-Port Gigabit Smart Cloud-Managed PoE Switch

Gigabit access PoE switch designed for SMB networks




PoE Budget 130 W

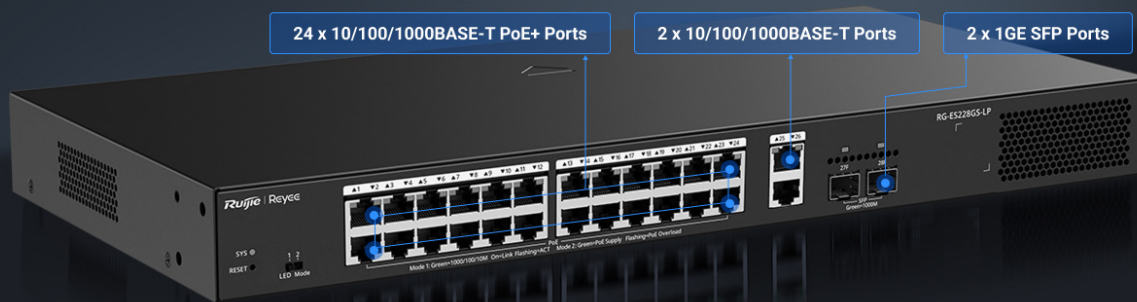

Abundant Application Scenarios


Fanless, Quiet and Green


3-Year Warranty

RG-ES228GS-LP 28-Port Gigabit Smart Cloud-Managed PoE Switch

Gigabit access PoE switch designed for SMB networks




PoE Budget 250W

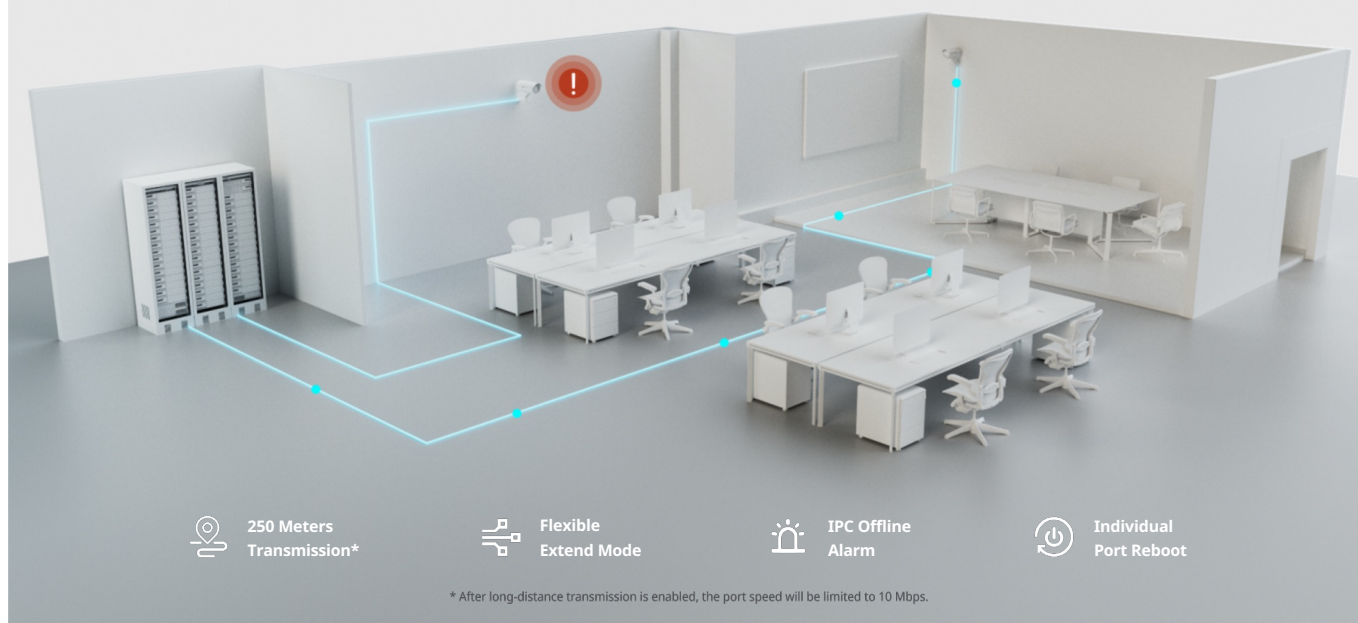

Abundant Application Scenarios


Flexible Uplink Options


3-Year Warranty

Highlight Features

Unique Value for CCTV Network



Automatic Loop Prevention Ensures Service Continuity

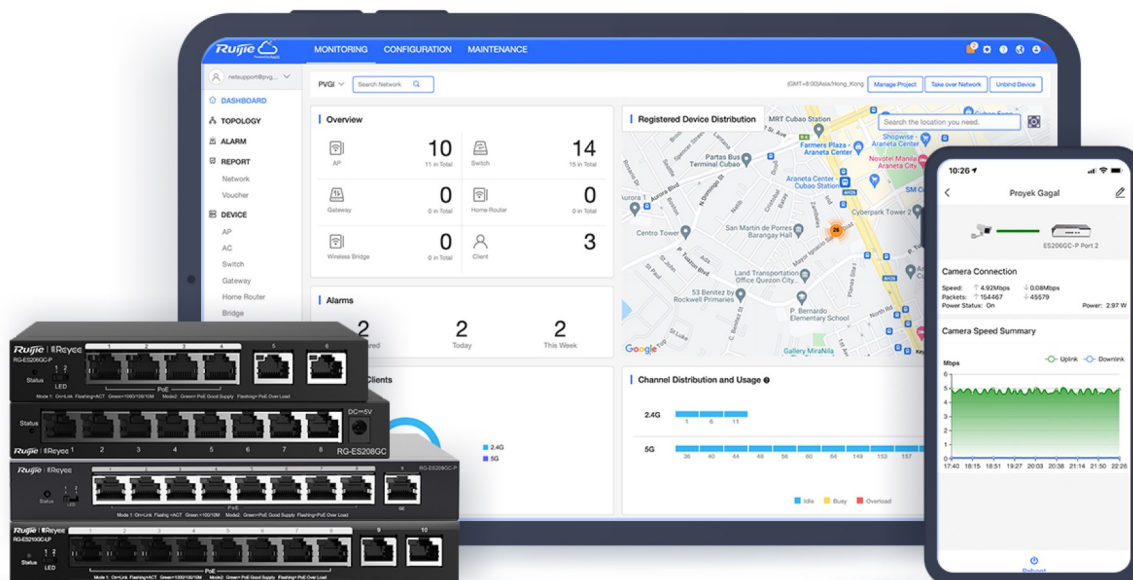
Network stays connected when network loop happens



Highlight Features

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

Specifications

Specifications		RG-ES220GS-LP	RG-ES228GS-LP
Hardware Specifications			
Port Specifications	Number of 10/100/1000BASE-T ports	18	26
	Number of 1GE SFP ports	2	2
	Total number of optical ports	2	2
	Number of 1GE SFP ports	2	2
	Total number of RJ45 ports	18	26
Interface Specifications	Reset button	1	1
System Specifications	CPU	MAC chip, single-core processor, 500 MHz clock frequency	MAC chip, single-core processor, 500 MHz clock frequency
	Flash memory	8 MB	8 MB
	Forwarding rate	29.76 Mpps	41.66 Mpps
	Switching capacity	40 Gbps(bit/s)	56 Gbps(bit/s)
Power Supply and Consumption	Power supply	Fixed power supply	Fixed power supply
	Power input	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	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: 6 A
	PoE power pins	1-2 (+), 3-6 (-)	1-2 (+), 3-6 (-)
	Maximum PoE output power of the device	130 W	250 W
	Maximum power consumption	Less than 15 W with no PoE load (110 V) Less than 14 W with no PoE load (220 V) Less than 160 W with PoE full load (110 V) Less than 157 W with PoE full load (220 V)	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)

Specifications		RG-ES220GS-LP	RG-ES228GS-LP
	Number of PoE Out ports	16	24
	Number of PoE/PoE+ Out ports	16	24
Dimensions and Weight	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.)	440 mm x 214.9 mm x 43.2 mm (17.32 in. x 8.46 in. x 1.70 in.)
	Weight	2.10 kg (4.63 lbs) (without packaging materials) 3.10 kg (6.83 lbs) (with packaging materials)	2.80 kg (6.17 lbs) (without packaging materials) 3.85 kg (8.49 lbs) (with packaging materials)
	Shipping weight	3.10 kg (6.83 lbs)	3.85 kg (8.49 lbs)
	Casing	Metal	Metal
Environment and Reliability	Mounting options	Desk/Rack	Desk/Rack
	Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage temperature	–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 (non-condensing)	10% RH to 90% RH (non-condensing)
	Storage humidity	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)
	Altitude	–500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.)	–500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.)
	Fan	Fanless design	1 x fixed fan
	MTBF	200,000 hours	200,000 hours
	Cooling	Natural cooling	Air cooling, front-to-rear airflow
	Acoustic noise	N/A	< 40 dB: 25°C (77°F)
	Hot swapping of cables	Hot swapping supported by the service port and power connector	Hot swapping supported by the service port and power connector
	ESD protection	Air discharge: 8 kV Contact discharge: 6 kV	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	Service port: ±6 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode

Specifications		RG-ES220GS-LP	RG-ES228GS-LP
Certification and Regulatory Compliance	Safety compliance	EN 62638-1	EN 62638-1
	EMC	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386
	Certification	CE, CB	CE, CB
Product Information	Warranty	3 years	3 years
Software Specifications			
Network Management and Monitoring	Fan speed adjustment	N/A	Automatic speed adjustment
	HTTP login	Yes	Yes
	HTTPS login	Yes	Yes
	SON	Yes	Yes
	Camera detection	Yes	Yes
	Syslog	No	No
	eWeb management	Yes	Yes
	Ruijie Cloud management	Yes	Yes
	Ruijie Reyee App management	Yes	Yes
	SNMPv1, v2c, and v3	No	No
Ethernet Switching	Mirroring	Yes	Yes
	Interface flow control	Yes	Yes
	Static MAC address	Yes	Yes
	Maximum number of MAC address entries	8000	8000
	Maximum number of VLANs	16	16
	LLDP	No	No
	LLDP-MED	No	No

Specifications		RG-ES220GS-LP	RG-ES228GS-LP
	Inbound or outbound rate limiting based on interface traffic	Yes	Yes
	IEEE 802.1Q VLAN	Yes	Yes
Basic Configurations	Online upgrade	Yes	Yes
	PoE watchdog	Yes	Yes
Interface	Jumbo frame length (MTU)	10000 bytes	10000 bytes
	EEE	Yes	Yes
	Cable test	Yes	Yes
IP Service	ARP	No	No
	IPv4 ping	No	No
	IPv4 traceroute	No	No
	ICMPv6	No	No
	IPv6 ping	No	No
	IPv6 traceroute	No	No
	DNS client	Yes	Yes
	DHCP client	Yes	Yes
Security	DHCP snooping	Yes	Yes
	Broadcast storm control	Yes	Yes
	Multicast storm control	Yes	Yes
	Unknown unicast storm control	Yes	Yes
	Standard ACL	No	No
	Extended MAC ACL	No	No
	Extended IP ACL	No	No
	IPv6 ACL	No	No
	Port isolation	Yes	Yes

Specifications		RG-ES220GS-LP	RG-ES228GS-LP
	CPU Protection Policy	Yes	Yes
	ARP anti-spoofing	No	No
Multicast	IGMPv1 snooping	No	No
	IGMPv2 snooping	No	No
	Basic IGMPv3 snooping	No	No
	Full IGMPv3 snooping	No	No
	IGMP filtering	No	No
	IGMPv1, v2, and v3	No	No
IP Routing	IPv4 static route	No	No
	IPv6 static route	No	No
	OSPFv2	No	No
	OSPFv3	No	No
Authentication	802.1X authentication	No	No
	RADIUS	No	No
Gateway Features	802.1p priority-based traffic classification	No	No
	DSCP priority-based traffic classification	No	No
System Performance Capacity	Recommended camera limit	200W H265: 80 400W H265: 40	200W H265: 80 400W H265: 40
Product Information			
Product category	/	Layer 2	Layer 2
Package Contents			

Specifications		RG-ES220GS-LP	RG-ES228GS-LP
Accessories	Rack-mount bracket	2	2
	Screw	6 X M3 x 6 mm cross recessed countersunk head screws	6 X M4 x 8 mm cross recessed countersunk head screws
	Rubber pad	4	4
	Nut	N/A	N/A
Manual	User Manual	1	1
	Warranty Card	1	1

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