20 Port Gigabit Layer 2 Smart Cloud-Managed PoE Network Switch (16x PoE+, 2x RJ45 GbE, 2x SFP), 130 W

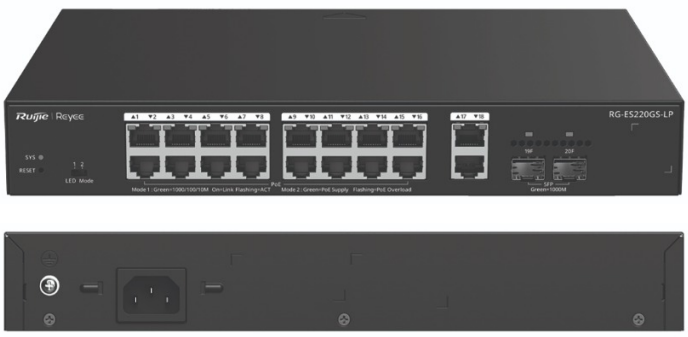
RG-ES220GS-LP

The RG-ES220GS-LP is a 20-port Gigabit smart cloud-managed PoE switch designed for reliable business and CCTV networks. It features 18 Gigabit Ethernet ports, including 16 PoE/PoE+ ports with a 130 W power budget, plus two Gigabit SFP ports for fibre uplinks. Ruijie Cloud management enables remote monitoring and configuration, while camera recognition, PoE watchdog, automatic loop prevention and VLAN support simplify management and improve network reliability. Its fanless metal design supports quiet desktop or rack-mount installation.

3-Year Manufacturer's Warranty
For full terms & conditions, please see – Ruijie Warranty T&Cs.

Features and Benefits

- 16 Gigabit PoE/PoE+ ports with a 130 W power budget simplify the connection and powering of IP cameras, access points and other PoE devices.
- Two additional Gigabit Ethernet ports and two Gigabit SFP ports provide flexible high-speed copper and fibre uplink options.
- Lifetime-free Ruijie Cloud and Reyee App management enable convenient remote configuration, monitoring and maintenance.
- IP camera recognition and PoE watchdog simplify CCTV management and automatically restart unresponsive connected cameras.
- Automatic loop prevention helps avoid network disruptions and maintain reliable service continuity.
- Supports VLANs, port isolation, traffic control and storm control, improving network performance, organisation and security.



Specifications

Hardware Specifications

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

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	130 W
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	Less than 15W with no PoE load (110V) Less than 14W with no PoE load (220V) Less than 160W with PoE full load (110V) Less than 157W with PoE full load (220V)
Power supply	Fixed power supply

Port Specifications

Port Specifications (continued)

Total number of RJ45 ports	18
Total number of optical ports	2
Number of 1GE SFP ports	2
Number of 10/100/1000BASE-T ports	18
Reset button	1

Product Information

Warranty	3 years

Dimensions and Weight

Casing	Metal
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.)
Weight	2.10 kg (4.63 lbs) (without packaging materials) 3.10 kg (6.83 lbs) (with packaging materials)
Shipping weight	3.10 kg (6.83 lbs)

Environment and Reliability

Fan	Fanless design
Cooling	Natural cooling
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.)

Environment and Reliability (continued)

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

System Specifications

Flash memory	8 MB
Forwarding rate	29.76 Mpps
Switching capacity	40 Gbps(bit/s)

Software Specifications

Authentication

RADIUS	No
802.1X authentication	No

Basic Configurations

PoE watchdog	Yes
Uninterruptible power supply upon warm start	No
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
VLAN configuration supported on LAN ports	Yes
LLDP	No
LLDP-MED	No
Static MAC address	Yes

Ethernet Switching (continued)

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
Cable test	Yes

Multicast

IGMPv1 snooping	No
IGMPv2 snooping	No
Basic IGMPv3 snooping	No
Full IGMPv3 snooping	No
IGMP filtering	No
IGMPv1, v2, 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

Security (continued)

Extended MAC ACL	No
Extended IP ACL	No
IPv6 ACL	No
ARP anti-spoofing	No
CPU Protection Policy	Yes

Network Management and Monitoring

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

IP Routing

IPv4 static route	No
IPv6 static route	No
OSPFv2	No
OSPFv3	No

System Performance Capacity

Recommended camera limit	200W H265: 80 400W H265: 40

IP Service

ARP	No
IPv4 ping	No
IPv4 traceroute	No
ICMPv6	No
IPv6 ping	No
IPv6 traceroute	No

IP Service (continued)

DNS client	Yes
DHCP client	Yes

Package Contents

Manual

User Manual	1
Warranty Card	1

Accessories

Rubber pad	4
Power cord retention clip	1
Screw	6 X M3 x 6 mm cross recessed countersunk head screws
Power cord	1 x 1.8 m (5.91 ft.)
Rack-mount bracket	2

Device

Device	1