24 Port Gigabit Layer 2 Smart Cloud-Managed Non-PoE Network Switch (24x RJ45 GbE, 2x 2.5GE SFP)

RG-ES224GC2MS

The RG-ES224GC2MS is an 26-port Layer 2 smart cloud-managed switch designed for business and CCTV networks. It features 24 Gigabit Ethernet ports and two 2.5 Gigabit SFP ports for high-speed fibre uplinks and ERPS network redundancy. Static link aggregation, VLAN support, AI-powered failover and comprehensive traffic controls help improve network performance and reliability. Lifetime-free Ruijie Cloud management enables convenient remote configuration, monitoring and maintenance.

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

Features and Benefits

- 24 Gigabit Ethernet ports provide fast, reliable connectivity for computers, cameras, access points and other network devices.
- Two 2.5 Gigabit SFP ports deliver high-speed fibre uplinks, helping reduce bottlenecks and expand network connectivity.
- ERPS network redundancy helps maintain service continuity by providing rapid recovery if a network link fails.
- Static link aggregation combines multiple connections to increase bandwidth and improve uplink reliability.
- Lifetime-free Ruijie Cloud and Reyee App management enable remote configuration, monitoring and maintenance.
- VLANs, port isolation, cable testing and traffic controls improve network organisation, security and troubleshooting.

Specifications

Hardware Specifications

Product Information

Warranty	3 years

Port Specifications

Total number of RJ45 ports	24
Total number of optical ports	2
Number of 2.5GE SFP ports	2
Number of 10/100/1000BASE-T ports	24
Reset button	1

Power Supply and Consumption

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: 0.6 A
Maximum power consumption	18 W
Power supply	Fixed power supply

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System Specifications

Flash memory	8 MB
Forwarding rate	43.15 Mpps
Switching capacity	58 Gbps(bit/s)

Dimensions and Weight

Casing	Metal
Product dimensions (W x D x H)	440 mm x 165 mm x 44 mm (17.32 in. x 6.50 in. x 1.73 in.)
Weight	1.74 kg (3.84 lbs) (without packaging materials)
Shipping weight	2.59 kg (5.71 lbs)

Environment and Reliability

Fan	Fanless design
Cooling	Natural cooling
Mounting options	Rack/Desk
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.)
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

Certification and Regulatory Compliance

EMC	EN 55032 EN IEC 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386

Certification and Regulatory Compliance (continued)

Safety compliance	EN 62368-1 IEC 62368-1
Certification	CE, CB

Software Specifications

Authentication

RADIUS	No
802.1X authentication	No

Basic Configurations

Online upgrade	Yes

Ethernet Switching

Maximum number of VLANs	32
Maximum number of MAC address entries	16000
Interface flow control	Yes
IEEE 802.1Q VLAN	Yes
LLDP	No
LLDP-MED	No
Static MAC address	Yes
Static aggregation	Yes
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)	12000 bytes
EEE	Yes
Cable test	Yes

IP Routing

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

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IP Service

ARP	No
IPv4 ping	Yes
IPv4 traceroute	No
ICMPv6	No
IPv6 ping	No
IPv6 traceroute	No
DNS client	Yes
DHCP client	Yes

Multicast

IGMPv1 snooping	No
IGMPv2 snooping	No
Basic IGMPv3 snooping	No
Full IGMPv3 snooping	No
IGMP filtering	No
IGMPv1, v2, and v3	No

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

Reliability

Load balancing	No
ERPS	Yes

Security

Port isolation	Yes
Broadcast storm control	Yes
Multicast storm control	Yes
Unknown unicast storm control	Yes
DHCP snooping	Yes
Standard ACL	No
Extended MAC ACL	No
Extended IP ACL	No
IPv6 ACL	No
ARP anti-spoofing	No
CPU Protection Policy	Yes

System Performance Capacity

Recommended camera limit	200W H265: 100 400W H265: 50

Package Contents

Device

Device	1

Accessories

Rubber pad	4
Power cord retention clip	1
Screw	6 x M4 x 8 mm cross recessed countersunk head screws
Power cord	1 x 1.8 m (5.91 ft.)
Rack-mount bracket	2

Manual

User Manual	1
Warranty Card	1