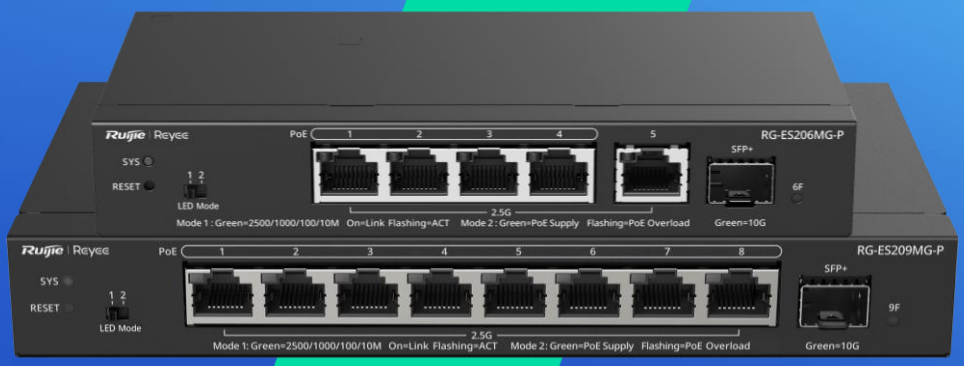
Ruijie | Reyee

# RG-ES200 Series

## 2.5G Cloud Managed PoE Switch, 1 x 10G Uplink

DATASHEET Explore More




## Highlights

- Multiple 2.5G ports and 1 x 10GE SFP+ port for higher network performance
- Multiple PoE Out ports supporting IEEE 802.3 af/at standards
- Aggregation of up to 4 ports, unlocking higher network speed
- Cost-effective smart cloud managed switches
- Lifetime free cloud management on Ruijie Cloud anytime, anywhere

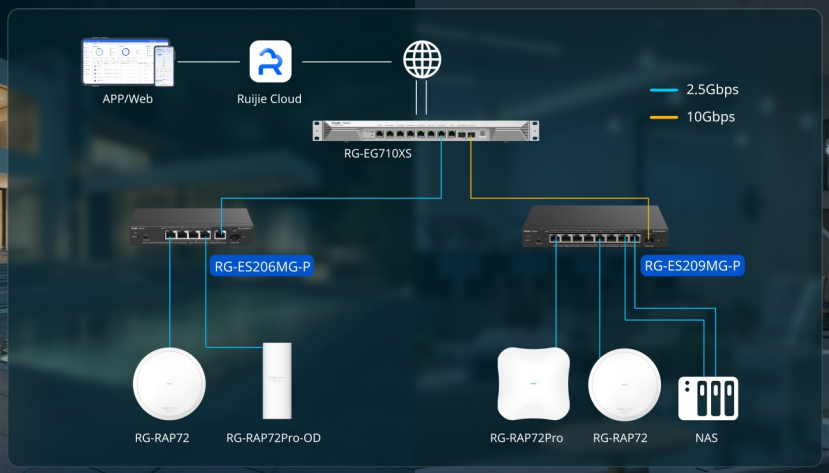
# Highlight Features

Image for reference only. Actual product may vary.

# Highlight Features

# Highlight Features

## Break Network Limits — Unleash the Full Power of Wi-Fi 7



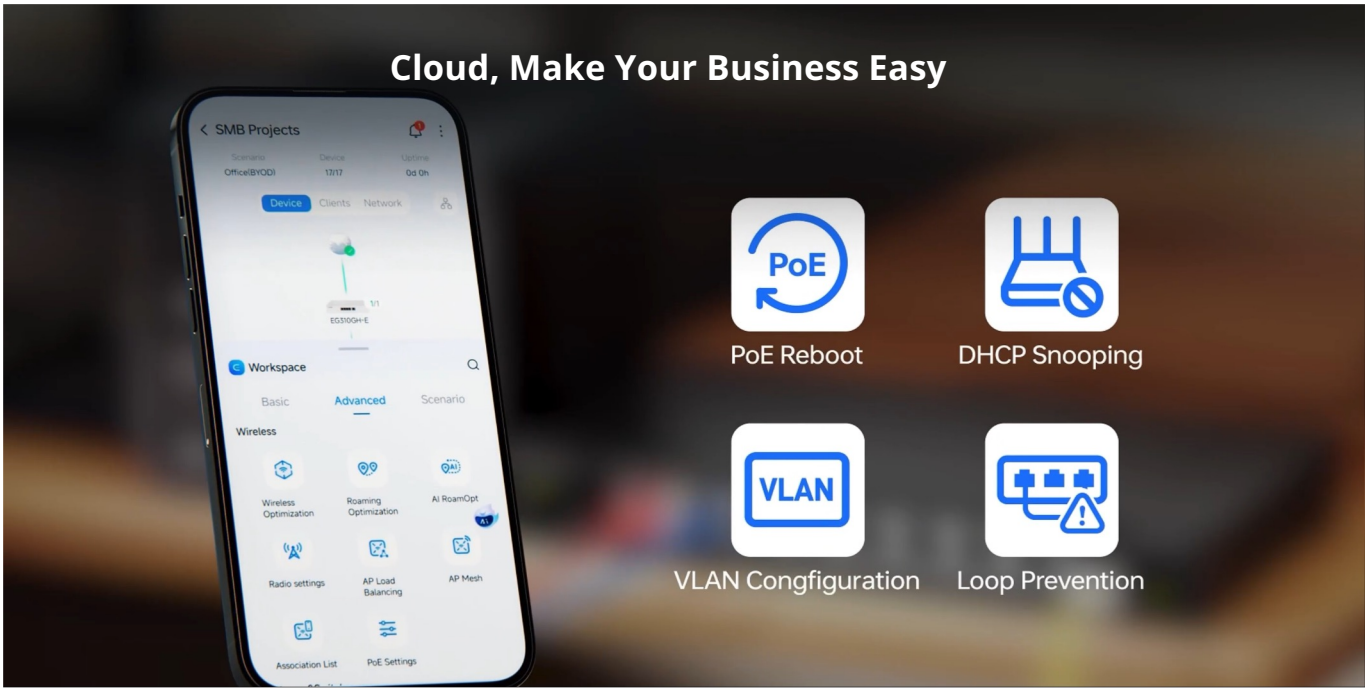

## Why Not 2.5Gbps on Every Port?

Higher internal network throughput, smoother performance during peak hours.

Experience wireless performance without limits.

Make every gig count with no bandwidth left behind.

# Highlight Features



# Specifications

| Specifications | | RG-ES206MG-P | RG-ES209MG-P |
|---|---|---|---|
| **Product Information** | | | |
| **Product category** | / | Layer 2 | Layer 2 |
| **Hardware Specifications** | | | |
| **Product Information** | Warranty | 3 years | 3 years |
| **Port Specifications** | Total number of RJ45 ports | 5 | 8 |
| | Total number of optical ports | 1 | 1 |
| | Number of 10GE SFP+ ports | 1 | 1 |
| | Number of 10/100/1000/2500BASE-T ports | 5 | 8 |
| **Interface Specifications** | Reset button | 1 | 1 |
| | DIP switch | LED mode switch toggled to left (Mode 1): The port LED status indicates the status of traffic transmission. Solid green means that the port is link up, while blinking green means that the port is transmitting and receiving data.<br><br>LED mode switch toggled to right (Mode 2): The port LED status indicates the PoE status. Solid green means that the port is supplying power, while blinking green means that the port is in power overload state. | LED mode switch toggled to left (Mode 1): The port LED status indicates the status of traffic transmission. Solid green means that the port is link up, while blinking green means that the port is transmitting and receiving data.<br><br>LED mode switch toggled to right (Mode 2): The port LED status indicates the PoE status. Solid green means that the port is supplying power, while blinking green means that the port is in power overload state. |
| **Power Supply and** | PoE standard | PoE/PoE+ (IEEE 802.3af/at) | PoE/PoE+ (IEEE 802.3af/at) |
| | Number of PoE Out ports | 4 | 8 |

| Specifications | | RG-ES206MG-P | RG-ES209MG-P |
|---|---|---|---|
| **Consumption** | Number of PoE/PoE+ Out ports | 4 | 8 |
| | PoE budget | 70 W | 130 W |
| | PoE power pins | 1–2 (+), 3–6 (-) | 1–2 (+), 3–6 (-) |
| | Power input | DC adapter:<br>● Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz<br>● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz<br>● Rated input current: 1.5 A<br>Output：<br>● Rated output voltage: 54 V DC<br>● Maximum output current: 1.48 A | DC adapter:<br>● Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz<br>● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz<br>● Rated input current: 2.5 A<br>Output：<br>● Rated output voltage: 54 V DC<br>● Maximum output current: 2.78 A |
| | Maximum power consumption | 5.5 W (with no PoE load)<br>75.5 W (with PoE full load) | 8.5 W (with no PoE load)<br>138.5 W (with PoE full load) |
| | Power supply | DC power adapter | DC power adapter |
| **System Specifications** | CPU | MAC chip, single-core processor, 62.5 MHz clock frequency | MAC chip, single-core processor, 62.5 MHz clock frequency |
| | Flash memory | 4 MB | 4 MB |
| | Forwarding rate | 33.75 Mpps | 45 Mpps |
| | Switching capacity | 45 Gbps (bit/s) | 60 Gbps (bit/s) |
| **Dimensions and Weight** | Casing | Metal | Metal |
| | Product dimensions (W x D x H) | 172 mm x 90.8 mm x 28 mm (6.77 in. x 3.57 in. x 1.1 in.) | 202 mm x 108 mm x 28 mm (7.95 in. x 4.25 in. x 1.1 in.) |
| | Weight | 0.49 kg (1.08 lbs) (without packaging materials)<br>1.39 kg (3.06 lbs) (with packaging materials) | 0.66 kg (1.46 lbs) (without packaging materials)<br>1.63 kg (3.59 lbs) (with packaging materials) |
| | Shipping weight | 1.39 kg (3.06 lbs) | 1.63 kg (3.59 lbs) |

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|---|---|---|---|
| **Environment and Reliability** | Fan | Fanless design | Fanless design |
| | Cooling | Natural cooling | Natural cooling |
| | Mounting options | Wall/Desk | Wall/Desk |
| | Hot swapping of cables | Hot swapping supported by the service port and power connector | Hot swapping supported by the service port and power connector |
| | MTBF | 200,000 hours | 200,000 hours |
| | 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.) |
| | Corrosion class | N/A | N/A |
| | ESD protection | Air discharge: 8 kV<br>Contact discharge: 6 kV | Air discharge: 8 kV<br>Contact discharge: 6 kV |
| | Surge protection | Service port: ±4 kV for common mode<br>Power connector: ±4 kV for common mode and ±4kV for differential mode | Service port: ±4 kV for common mode<br>Power connector: ±4 kV for common mode and ±4 kV for differential mode |
| **Certification and Regulatory Compliance** | EMC | EN 55032<br>EN 61000-3-2<br>EN 61000-3-3<br>EN 55035<br>EN 300 386 | EN 55032<br>EN 61000-3-2<br>EN 61000-3-3<br>EN 55035<br>EN 300 386 |
| | Safety compliance | EN 62638-1 | EN 62638-1 |
| | Certification | CE | CE |
| **Software Specifications** | | | |

| Specifications | | RG-ES206MG-P | RG-ES209MG-P |
|---|---|---|---|
| **System Performance Capacity** | Recommended camera limit | 200W H265: 70<br>400W H265: 35 | 200W H265: 90<br>400W H265: 45 |
| **Basic Configurations** | PoE watchdog | Yes | Yes |
| | Online upgrade | Yes | Yes |
| **Interface** | Jumbo frame length (MTU) | 9216 bytes | 9216 bytes |
| | EEE | Yes | Yes |
| | Cable test | Yes | Yes |
| **Ethernet Switching** | Maximum number of VLANs | 16 | 16 |
| | Maximum number of MAC address entries | 4000 | 4000 |
| | Interface flow control | Yes | Yes |
| | IEEE 802.1Q VLAN | Yes | Yes |
| | Port-based VLAN | Yes | Yes |
| | LLDP | No | No |
| | LLDP-MED | No | No |
| | Static MAC address | Yes | Yes |
| | Static aggregation | Yes | Yes |
| | LACP | No | No |
| | Inbound or outbound rate limiting based on interface traffic | Yes | Yes |

| Specifications | | RG-ES206MG-P | RG-ES209MG-P |
|---|---|---|---|
| **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 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 |
| **IP Routing** | IPv4 static route | No | No |
| | IPv6 static route | No | No |
| | OSPFv2 | No | No |
| | OSPFv3 | No | No |
| **Gateway Features** | 802.1p priority-based traffic classification | No | No |
| | DSCP priority-based traffic classification | No | No |
| **Network Manage ment and** | Mirroring | Yes | Yes |
| | HTTP login | Yes | Yes |

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|---|---|---|---|
| **Monitoring** | HTTPS login | No | No |
| | SON | Yes | Yes |
| | Syslog | No | No |
| | Camera detection | Yes | Yes |
| | eWeb management | Yes | Yes |
| | Ruijie Cloud management | Yes | Yes |
| | Ruijie Reyee App management | Yes | Yes |
| | SNMPv1, v2c, and v3 | No | No |
| **Authentication** | RADIUS | No | No |
| | 802.1X authentication | No | No |
| **Security** | Port isolation | Yes | Yes |
| | Broadcast storm control | Yes | Yes |
| | Multicast storm control | Yes | Yes |
| | Unknown unicast storm control | Yes | Yes |
| | DHCP snooping | Yes | Yes |
| | Standard ACL | No | No |
| | Extended MAC ACL | No | No |
| | Extended IP ACL | No | No |
| | IPv6 ACL | No | No |
| | ARP anti-spoofing | No | No |
| | CPU Protection Policy | Yes | Yes |

| Specifications | | RG-ES206MG-P | RG-ES209MG-P |
|---|---|---|---|
| **Package Contents** | | | |
| **Device** | Device | 1 | 1 |
| **Manual** | User Manual | 1 | 1 |
| | Warranty Card | 1 | 1 |

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Redefine your easy network

**Ruijie Networks Co., Ltd.**

Official Website: https://Reyee.Ruijie.com