

# RG-EG105GW-X

## Wi-Fi 6 AX3000 High-performance All-in-One Wireless Router



### Highlights

- Professional and high-performance Wi-Fi 6 business VPN router.
- Easy network construction with all-in-one wireless router.
- One-Click Reyee Mesh.
- Diverse enterprise-level features for different service scenarios.
- Securely monitoring the NVR/IPC/internal server anytime from anywhere.

## Highlight Features

### Best-in-class All-in-One Wireless Router

A professional and high performance Wi-Fi 6 wireless router for small size businesses.



Wi-Fi 6  
AX3000



5 \* 5dBi  
Antenna



Reyee  
Mesh



4 WAN  
Load Balancing



VPN  
IPSec, OpenVPN,  
L2TP, PPTP, etc.



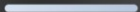
Free Cloud  
Management

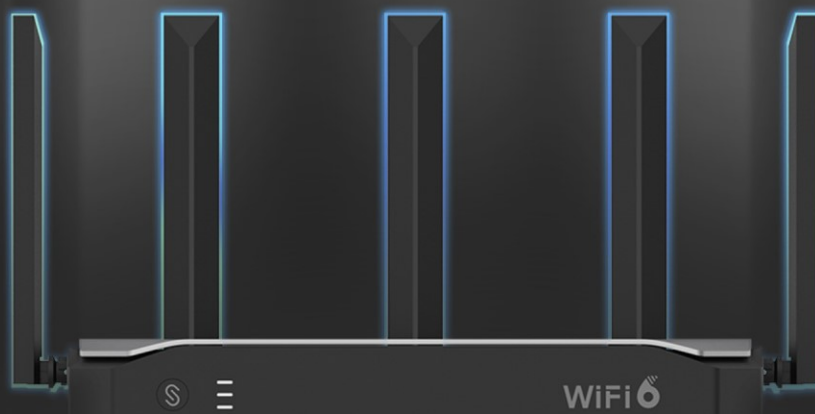
### Enter the Era of Ultra-high Wi-Fi 6 Speed

With a revolutionary combination of **OFDMA** and **1024QAM**, the latest **802.11ax** standard, and the **160MHz** band,

RG-EG105GW-X wireless aggregation rate reaches 2.976Gbps.

RG-EG105GW-X  **2976 Mbps**

RG-EG105GW(T)  1267Mbps



## Highlight Features

### Power On, Business On

Easy to set up the whole network with all-in-one wireless router by mobile APP.



### Press Button, Reyee Mesh Networking Done

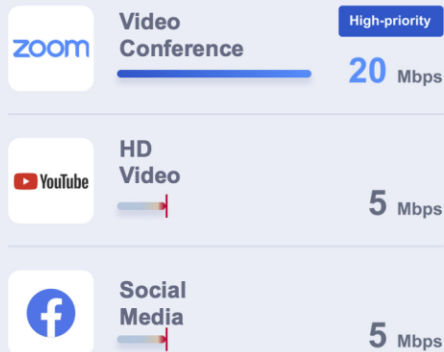
Less wiring, more relaxing.



## Highlight Features

### New Efficient Way of Application/Bandwidth Management

#### Application Based Bandwidth Policy

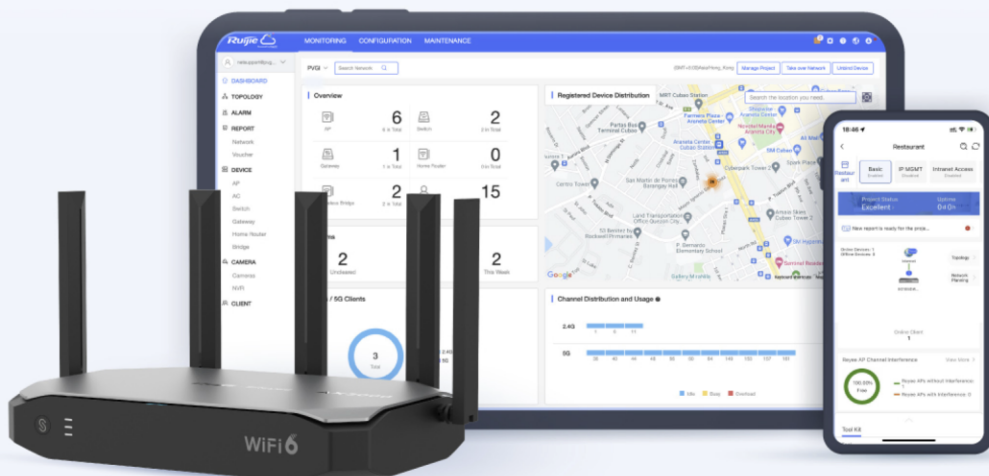


#### User Based Bandwidth Policy



### Cloud, Make Your Business Easy

- Reeye free DDNS
- Cloud portal authentication
- Remote monitoring and maintenance
- Upgrade firmware via Cloud
- APP library dynamic update



# Hardware Specifications

| Model                             | RG-EG105GW-X                                 |
|-----------------------------------|----------------------------------------------|
| Port Specifications               |                                              |
| Total number of RJ45 ports        | 5                                            |
| Number of 10/100/1000BASE-T ports | 5                                            |
| Maximum number of LAN ports       | 4                                            |
| Maximum number of WAN ports       | 4                                            |
| Number of fixed LAN ports         | 1                                            |
| Number of fixed WAN ports         | 1                                            |
| Number of LAN/WAN ports           | 3                                            |
| LEDs                              | 1 x system status LED                        |
|                                   | 3 x mesh LEDs                                |
| Reset button                      | 1                                            |
| USB port                          | 1 x USB 3.0 port                             |
| Power Supply and Consumption      |                                              |
| Power supply                      | Fixed power supply                           |
| Dimensions of the DC connector    | No                                           |
| Maximum power consumption         | 20 W                                         |
| Antenna                           |                                              |
| Antenna                           | 2.4 GHz: 2 external omnidirectional antennas |
|                                   | 5 GHz: 3 external omnidirectional antennas   |
| System Specifications             |                                              |
| CPU                               | Dual-core processor, 1.3 GHz clock frequency |

# Hardware Specifications

| Model                          | RG-EG105GW-X                                                                                                                        |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Flash memory                   | 128 MB SPI NAND Flash                                                                                                               |
| RAM                            | 512 MB DDR3                                                                                                                         |
| Dimensions and Weight          |                                                                                                                                     |
| Package dimensions (W x D x H) | 418 mm x 368 mm x 65 mm (16.46 in. x 14.49 in. x 2.56 in.)                                                                          |
| Product dimensions (W x D x H) | 283 mm x 172 mm x 46 mm (11.14 in. x 6.77 in. x 1.81 in.)<br>(excluding the antennas and foot pads)                                 |
| Shipping weight                | 1.71 kg (3.77 lbs)                                                                                                                  |
| Weight                         | 1.2 kg (2.65 lbs.) (without packaging materials)                                                                                    |
| Wi-Fi Radio                    |                                                                                                                                     |
| Wi-Fi standard                 | Wi-Fi 6 (IEEE 802.11ax) standard, compatible with IEEE 802.11a/b/g/n/ac standards                                                   |
| Radio design                   | Dual-radio<br>4 spatial streams <ul style="list-style-type: none"><li>• 2.4 GHz: 2 x 2, MIMO</li><li>• 5 GHz: 2 x 2, MIMO</li></ul> |
| Operating band                 | Yes                                                                                                                                 |
| 2.4 GHz Wi-Fi                  | Wi-Fi 4 (IEEE 802.11b/g/n)<br>Wi-Fi 6 (IEEE 802.11ax)                                                                               |
| 5 GHz Wi-Fi                    | Wi-Fi 4 (IEEE 802.11a/n)<br>Wi-Fi 5 (IEEE 802.11ac)<br>Wi-Fi 6 (IEEE 802.11ax)                                                      |

## / Hardware Specifications

| Model                            | RG-EG105GW-X                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coverage range                   | <p>145 m<sup>2</sup> (1560.77 square ft.)</p> <p>Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.</p>                                                                                                                                                                 |
| 2.4 GHz channel width            | Auto/20/40 MHz                                                                                                                                                                                                                                                                                                                                                                        |
| 5 GHz channel width              | Auto/20/40/80/160 MHz                                                                                                                                                                                                                                                                                                                                                                 |
| 2.4 GHz wireless data rate       | 573 Mbps                                                                                                                                                                                                                                                                                                                                                                              |
| 5 GHz wireless data rate         | 2401 Mbps                                                                                                                                                                                                                                                                                                                                                                             |
| Maximum transmit power (2.4 GHz) | <p>Combined power: 29 dBm (single-stream power: 26 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>                                                                                                                                                                                                                       |
| Maximum transmit power           | <p>Frequency bands and maximum Effective Isotropic Radiated Power (EIRP):</p> <p>Note: Country specific restrictions apply.</p> <p>European Union &amp; United Kingdom:</p> <p>2400–2483.5 MHz, EIRP ≤ 20 dBm</p> <p>5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>United States:</p> <p>2400–2483.5 MHz, max output power ≤ 30 dBm &amp; EIRP ≤ 36 dBm</p> |

# / Hardware Specifications

| Model | RG-EG105GW-X                                                       |
|-------|--------------------------------------------------------------------|
|       | 5150–5250 MHz, max output power $\leq 30$ dBm & EIRP $\leq 36$ dBm |
|       | 5250–5350 MHz, max output power $< 24$ dBm & EIRP $\leq 30$ dBm    |
|       | 5470–5725 MHz, max output power $< 24$ dBm & EIRP $\leq 30$ dBm    |
|       | 5725–5850 MHz, max output power $\leq 30$ dBm & EIRP $\leq 36$ dBm |
|       | Myanmar:                                                           |
|       | 2400–2483.5 MHz, EIRP $\leq 23$ dBm                                |
|       | 5725–5825 MHz, EIRP $\leq 30$ dBm                                  |
|       | Thailand:                                                          |
|       | 2400–2483.5 MHz, EIRP $\leq 20$ dBm                                |
|       | 5150–5350 MHz, EIRP $\leq 23$ dBm                                  |
|       | 5470–5725 MHz, EIRP $\leq 30$ dBm                                  |
|       | 5725–5825 MHz, EIRP $\leq 30$ dBm                                  |
|       | Indonesia:                                                         |
|       | 2400–2483.5 MHz, EIRP $\leq 27$ dBm                                |
|       | 5150–5350 MHz, EIRP $\leq 23$ dBm                                  |
|       | 5725–5825 MHz, EIRP $\leq 23$ dBm                                  |
|       | Egypt:                                                             |
|       | 2400–2483.5 MHz, EIRP $\leq 20$ dBm                                |

# / Hardware Specifications

| Model                          | RG-EG105GW-X                                                                                                                                                                                   |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | 5150–5350 MHz, EIRP ≤ 23 dBm<br><br>Vietnam:<br><br>2400–2483.5 MHz, EIRP ≤ 23 dBm<br><br>5150–5350 MHz, EIRP ≤ 23 dBm<br><br>5470–5725 MHz, EIRP ≤ 30 dBm<br><br>5725–5850 MHz, EIRP ≤ 30 dBm |
| Maximum transmit power (5 GHz) | Combined power: 30.7 dBm (single-stream power: 26 dBm)<br><br>Note: The transmit power varies according to regulations in different countries and regions.                                     |
| Maximum wireless data rate     | 2974 Mbps                                                                                                                                                                                      |
| Environment and Reliability    |                                                                                                                                                                                                |
| Cooling                        | Natural cooling                                                                                                                                                                                |
| Fan                            | Fanless design                                                                                                                                                                                 |
| IP rating                      | No                                                                                                                                                                                             |
| Mounting options               | Desk                                                                                                                                                                                           |
| Operating humidity             | 5% RH to 95% RH (non-condensing)                                                                                                                                                               |
| Operating temperature          | 0°C to 40°C (32°F to 104°F)                                                                                                                                                                    |
| Storage humidity               | 5% RH to 95% RH (non-condensing)                                                                                                                                                               |
| Storage temperature            | –40°C to +70°C (–40°F to +158°F)                                                                                                                                                               |

# Hardware Specifications

| Model            | RG-EG105GW-X                                                                                                                                                                     |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surge protection | <div>Service port: <math>\pm 2</math> kV for common mode</div> <div>Power connector: <math>\pm 4</math> kV for common mode and <math>\pm 2</math> kV for differential mode</div> |

# Software Specifications

| Model                                                                         | RG-EG105GW-X                                                                                    |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Basic Configurations                                                          |                                                                                                 |
| AC mode                                                                       | No                                                                                              |
| Automatically identifying the Internet access mode and obtaining IP addresses | Yes                                                                                             |
| Automatically learning the PPPoE username and password of other routers       | Yes                                                                                             |
| Configuration backup                                                          | Yes                                                                                             |
| Internet access mode                                                          | Static IP address<br>Static IPv6 address<br>Dynamic IP address<br>Dynamic IPv6 address<br>PPPoE |
| Local upgrade                                                                 | Yes                                                                                             |
| Log upload                                                                    | Yes                                                                                             |
| Online upgrade                                                                | Yes                                                                                             |
| Restoring factory defaults                                                    | Yes                                                                                             |
| System language                                                               | Yes                                                                                             |
| System Performance Capacity                                                   |                                                                                                 |

## Software Specifications

| Model                                                              | RG-EG105GW-X |
|--------------------------------------------------------------------|--------------|
| Maximum number of concurrent sessions                              | 30000        |
| Recommended number of concurrent clients                           | 160          |
| Throughput                                                         | 1200 Mbps    |
| Authentication                                                     |              |
| Portal authentication                                              | Yes          |
| One-click authentication                                           | Yes          |
| Password authentication                                            | Yes          |
| SMS-based authentication                                           | Yes          |
| Voucher authentication supported by Ruijie Cloud portal page       | No           |
| Cloud portal authentication                                        | Yes          |
| Local portal authentication                                        | Yes          |
| QR code authentication                                             | Yes          |
| Custom portal page                                                 | No           |
| Account-based authentication supported by Ruijie Cloud portal page | No           |
| CHAP, MS-CHAPv1, MS-CHAPv2                                         | Yes          |

## Software Specifications

| Model                                                               | RG-EG105GW-X |
|---------------------------------------------------------------------|--------------|
| Delivery through Ruijie Cloud portal page                           | No           |
| 802.1X authentication                                               | Yes          |
| MAC address-based authentication                                    | Yes          |
| PPPoE server                                                        | Yes          |
| Number of accounts supported by the PPPoE server                    | 100          |
| Number of concurrent clients supported by the PPPoE server          | 35           |
| RADIUS flow control authorization supported by PPPoE authentication | No           |
| PAP                                                                 | Yes          |
| RADIUS authentication                                               | Yes          |
| RADIUS client                                                       | Yes          |
| RADIUS accounting based on time or traffic                          | Yes          |
| RADIUS proxy server                                                 | Yes          |
| RADIUS traffic quota authorization                                  | Yes          |
| RADIUS user group authorization                                     | Yes          |
| Third-party authentication                                          | No           |
| IP Service                                                          |              |

# Software Specifications

| Model                         | RG-EG105GW-X |
|-------------------------------|--------------|
| 3322.org                      | Yes          |
| ALG                           | Yes          |
| ARP binding                   | Yes          |
| Maximum number of ARP entries | 1024         |
| Proxy ARP                     | No           |
| Cloudflare                    | Yes          |
| DHCP client                   | Yes          |
| DHCP server                   | Yes          |
| DHCP relay                    | No           |
| Option 43                     | Yes          |
| Option 138                    | Yes          |
| Static/Dynamic NAT            | Yes          |
| NAT-PT                        | No           |
| NAT loopback                  | Yes          |
| DNS client                    | Yes          |
| DNS proxy                     | Yes          |
| DNS server                    | Yes          |
| No-IP DNS                     | Yes          |
| GRE tunnel                    | No           |
| IPTV                          | Yes          |
| IPv4 ping                     | Yes          |

## Software Specifications

| Model                                               | RG-EG105GW-X |
|-----------------------------------------------------|--------------|
| IPv6                                                | Yes          |
| IPv6 ping                                           | Yes          |
| Number of port mapping entries                      | 256          |
| Port mapping                                        | Yes          |
| DDNS                                                | Yes          |
| Ruijie DDNS                                         | Yes          |
| Alibaba Cloud DDNS                                  | Yes          |
| UPnP                                                | Yes          |
| Ethernet Interface                                  |              |
| Avoiding IP address conflicts on WAN interfaces     | Yes          |
| Load balancing                                      | Yes          |
| MAC address cloning                                 | Yes          |
| Multiple WAN interfaces on the same network segment | Yes          |
| PPPoE clients                                       | Yes          |
| Scheduled PPPoE reconnection                        | No           |
| SD-WAN                                              |              |
| SD-WAN                                              | Yes          |
| SD-WAN performance                                  | 300 Mbps     |

## Software Specifications

| Model                                                                                                  | RG-EG105GW-X |
|--------------------------------------------------------------------------------------------------------|--------------|
| Number of tunnels supported by SD-WAN                                                                  | 96           |
| Maximum number of SD-WAN branches                                                                      | 32           |
| Active/Standby mode (automatically switching to the standby interface when the active interface fails) | Yes          |
| Load balancing by link weight                                                                          | Yes          |
| Centralized traffic forwarding policy                                                                  | Yes          |
| Multi-WAN bandwidth aggregation efficiency (lab data)                                                  | $\geq 80\%$  |
| VPN                                                                                                    |              |
| IPsec VPN                                                                                              | Yes          |
| IPsec VPN bandwidth                                                                                    | 100 Mbps     |
| Maximum number of branches in IPsec VPN networking                                                     | 32           |
| L2TP VPN                                                                                               | Yes          |
| L2TP VPN bandwidth                                                                                     | 400 Mbps     |
| Maximum number of branches in L2TP VPN networking                                                      | 32           |
| OpenVPN                                                                                                | Yes          |

## Software Specifications

| Model                                                          | RG-EG105GW-X |
|----------------------------------------------------------------|--------------|
| OpenVPN bandwidth                                              | 80 Mbps      |
| Maximum number of branches in OpenVPN networking               | 32           |
| PPTP VPN                                                       | Yes          |
| PPTP VPN bandwidth                                             | 400 Mbps     |
| Maximum number of branches in PPTP VPN networking              | 32           |
| SSL VPN                                                        | No           |
| Easy VPN 1.0                                                   | No           |
| Number of VPN accounts for L2TP, PPTP, and OpenVPN             | 200          |
| WireGuard server                                               | Yes          |
| WireGuard client                                               | Yes          |
| WireGuard performance                                          | 300 Mbps     |
| Number of concurrent tunnels supported by the WireGuard server | 32           |
| Ruijie Rapid Link Detection Protocol                           |              |
| Network detection switching time                               | ≤ 10s        |
| Network Management and Monitoring                              |              |
| Web management                                                 | Yes          |
| Ruijie Cloud management                                        | Yes          |

## Software Specifications

| Model                                                      | RG-EG105GW-X |
|------------------------------------------------------------|--------------|
| Management on Ruijie Reyee App                             | Yes          |
| Remotely monitoring devices through Ruijie Reyee App       | Yes          |
| Restarting devices through Ruijie Reyee App                | Yes          |
| Upgrading device software version through Ruijie Reyee App | Yes          |
| Fault diagnosis                                            | Yes          |
| FTP client (IPv4 address)                                  | No           |
| FTP server (IPv4 address)                                  | No           |
| TFTP client (IPv4 address)                                 | Yes          |
| TFTP server (IPv4 address)                                 | No           |
| HTTPS login                                                | Yes          |
| NTP client                                                 | Yes          |
| NTP server                                                 | No           |
| Scheduled device restart                                   | Yes          |
| SNMPv1, v2c, and v3                                        | Yes          |
| SON                                                        | Yes          |
| SSH                                                        | No           |
| Telnet                                                     | No           |

# Software Specifications

| Model                                                | RG-EG105GW-X                                                                                                            |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Web login information                                | Default IP Address: 192.168.110.1<br>Default password: admin                                                            |
| Maximum number of managed devices (router mode)      | AP and NBS series: 150<br>ES series: 128<br>Note: The maximum number of managed devices varies with each device series. |
| WLAN                                                 |                                                                                                                         |
| Access RSSI threshold                                | Yes                                                                                                                     |
| Different SSIDs for different APs                    | Yes                                                                                                                     |
| Forcibly disconnecting clients with low-weak signals | Yes                                                                                                                     |
| Global blocklist and allowlist                       | Yes                                                                                                                     |
| Power settings                                       | Yes                                                                                                                     |
| Roaming sensitivity                                  | Yes                                                                                                                     |
| User isolation                                       | Yes                                                                                                                     |
| AP Mesh                                              | Yes                                                                                                                     |
| Wireless Intelligent Optimization (WIO)              | Yes                                                                                                                     |
| WMM                                                  | Yes                                                                                                                     |
| Ethernet Switching                                   |                                                                                                                         |

## Software Specifications

| Model                                                  | RG-EG105GW-X |
|--------------------------------------------------------|--------------|
| Configuring multiple VLANs upon configuration delivery | No           |
| Link aggregation                                       | No           |
| LLDP                                                   | No           |
| VLAN                                                   | Yes          |
| Maximum number of VLANs                                | 16           |
| VLAN configuration supported on LAN ports              | Yes          |
| Super-VLAN                                             | No           |
| Configuring the same VLAN tag for multiple WAN ports   | No           |
| VLAN priority                                          | Yes          |
| Number of MAC address entries to be filtered           | 256          |
| Security                                               |              |
| ACL                                                    | Yes          |
| Extended ACL                                           | No           |
| IPv6 ACL                                               | Yes          |
| DHCP snooping                                          | No           |
| Malformed packet attack defense                        | Yes          |
| Fragmentation attack defense                           | Yes          |

# Software Specifications

| Model                                | RG-EG105GW-X |
|--------------------------------------|--------------|
| Teardrop attack defense              | Yes          |
| LAND attack defense                  | Yes          |
| SYN flood attack defense             | Yes          |
| Smurf attack defense                 | Yes          |
| IP attack defense                    | Yes          |
| Disabling ping                       | Yes          |
| Stateful ACL                         | Yes          |
| IP-MAC binding                       | Yes          |
| Network sharing prevention           | Yes          |
| Security log                         | Yes          |
| Security zone                        | Yes          |
| User group-based connection limiting | Yes          |
| Gateway Features                     |              |
| WAN failover                         | Yes          |
| Application priority                 | Yes          |
| Application recognition              | Yes          |
| Behavior management                  | Yes          |
| QoS                                  | Yes          |
| Time-based blocking policy           | Yes          |
| IP address-based blocking policy     |              |

# Software Specifications

| Model                            | RG-EG105GW-X |
|----------------------------------|--------------|
| Website filtering: custom URL    | Yes          |
| Traffic audit                    | Yes          |
| URL audit log                    | Yes          |
| Audit log server                 | Yes          |
| Audit log storage                | No           |
| Uploading audit logs to a server | Yes          |
| Reliability                      |              |
| Stacking                         | No           |
| VRRP                             | No           |
| IP Routing                       |              |
| Application-based routing        | Yes          |
| Bandwidth aggregation            | Yes          |
| BGP                              | No           |
| BGP4                             | No           |
| BGP4+                            | No           |
| ECMP                             | No           |
| IPv4 static route                | Yes          |
| IPv6 PBR                         | Yes          |
| IPv6 static route                | Yes          |
| IS-ISv4                          | No           |
| IS-ISv6                          | No           |

## Software Specifications

| Model                                        | RG-EG105GW-X |
|----------------------------------------------|--------------|
| Load balancing based on flows                | Yes          |
| Load balancing based on source IP addresses  | Yes          |
| Load balancing based on the interface weight | Yes          |
| Route selection by link quality              | Yes          |
| OSPFv2                                       | No           |
| OSPFv3                                       | No           |
| RIP                                          | Yes          |
| RIPng                                        | Yes          |
| MPLS                                         |              |
| MPLS L2VPN                                   | No           |

## Package Contents

| Model         | RG-EG105GW-X          |
|---------------|-----------------------|
| Accessories   |                       |
| Power cord    | 1 x 1.5 m (59.06 in.) |
| Manual        |                       |
| User Manual   | 1                     |
| Warranty Card | 1                     |

**Ruijie** | ReYee

 **R**edefine **y**our **e**asy network



**Ruijie Networks Co., Ltd.**

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