Ruijie | Reyee

DATASHEET

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.

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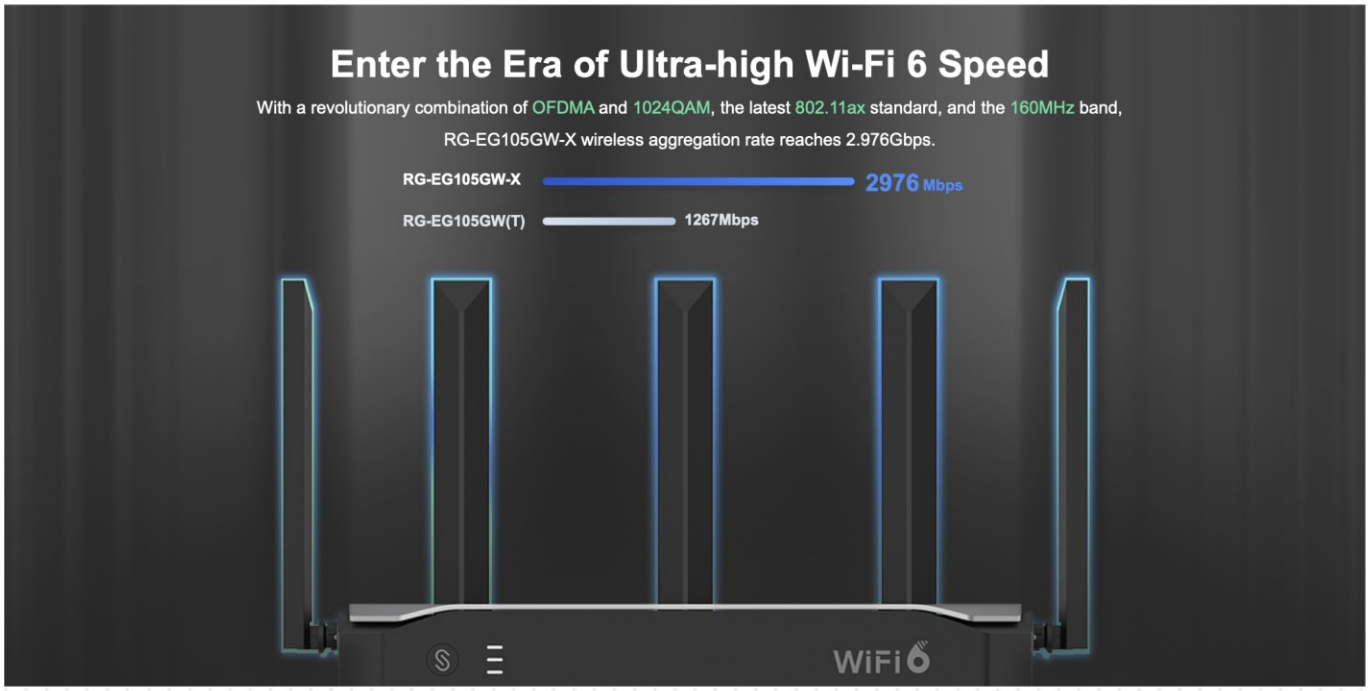
Highlight Features



Highlight Features

Highlight Features

New Efficient Way of Application/Bandwidth Management

Application Based Bandwidth Policy

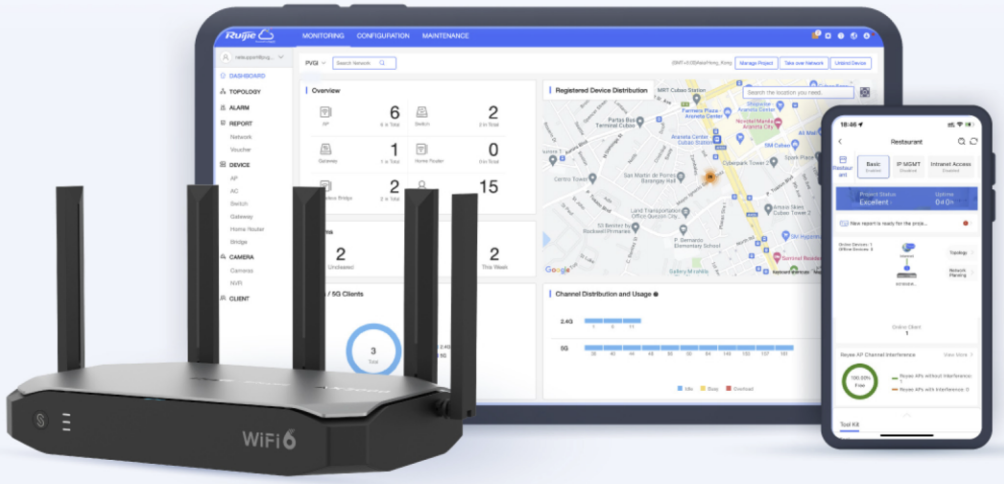
zoom	Video Conference	High-priority 20 Mbps
YouTube	HD Video	5 Mbps
	Social Media	5 Mbps

User Based Bandwidth Policy

User Group	Management	50 Mbps
User Group	Finance	High-priority 30 Mbps
User Group	Other staff	100 Mbps

Cloud, Make Your Business Easy

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



Hardware Specifications

Model	RG-EG105GW-X
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.) (excluding the antennas and foot pads)
Shipping weight	1.71 kg (3.77 lbs)
Weight	1.2 kg (2.65 lbs.) (without packaging materials)
System Specifications	
CPU	Dual-core processor, 1.3 GHz clock frequency
Flash memory	128 MB SPI NAND Flash
RAM	512 MB DDR3
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

Hardware Specifications

Model	RG-EG105GW-X
USB port	1 x USB 3.0 port
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)
Surge protection	Service port: ±2 kV for common mode Power connector: ±4 kV for common mode and ±2 kV for differential mode
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 4 spatial streams • 2.4 GHz: 2 x 2, MIMO • 5 GHz: 2 x 2, MIMO

Hardware Specifications

Model	RG-EG105GW-X
Operating band	IEEE 802.11b/g/n/ax, 2.400 GHz to 2.4835 GHz IEEE 802.11a/n/ac/ax, 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to 5.850 GHz Note: Available bands vary with countries and regions. To use the preceding frequency bands, ensure that your country or region supports these frequency bands.
2.4 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11b/g/n) Wi-Fi 6 (IEEE 802.11ax)
5 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11a/n) Wi-Fi 5 (IEEE 802.11ac) Wi-Fi 6 (IEEE 802.11ax)
Coverage range	145 ㎡ (1560.77 square ft.) Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.
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

Hardware Specifications

Model	RG-EG105GW-X
Maximum transmit power (2.4 GHz)	Combined power: 29 dBm (single-stream power: 26 dBm) Note: The transmit power varies according to regulations in different countries and regions.
Maximum transmit power	Frequency bands and maximum Effective Isotropic Radiated Power (EIRP): Note: Country specific restrictions apply. European Union & United Kingdom: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm United States: 2400–2483.5 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm 5150–5250 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm 5250–5350 MHz, max output power < 24 dBm & EIRP ≤ 30 dBm 5470–5725 MHz, max output power < 24 dBm & EIRP ≤ 30 dBm 5725–5850 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm

Hardware Specifications

Model	RG-EG105GW-X
	Myanmar: 2400–2483.5 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 30 dBm Thailand: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5825 MHz, EIRP ≤ 30 dBm Indonesia: 2400–2483.5 MHz, EIRP ≤ 27 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 23 dBm Egypt: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm Vietnam: 2400–2483.5 MHz, EIRP ≤ 23 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5850 MHz, EIRP ≤ 30 dBm

Hardware Specifications

Model	RG-EG105GW-X
Maximum transmit power (5 GHz)	Combined power: 30.7 dBm (single-stream power: 26 dBm) Note: The transmit power varies according to regulations in different countries and regions.
Maximum wireless data rate	2974 Mbps
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

Software Specifications

Model	RG-EG105GW-X
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
Delivery through Ruijie Cloud portal page	No
802.1X authentication	Yes
MAC address-based authentication	Yes
PPPoE server	Yes

Software Specifications

Model	RG-EG105GW-X
Number of accounts supported by the PPPoE server	100
Number of concurrent clients supported by the PPPoE server	35
RADIUS flow control authorization	No
PAP	Yes
RADIUS authentication	Yes
RADIUS client	Yes
RADIUS accounting based on time or traffic	Yes
RADIUS flow control authorization	No
RADIUS proxy server	Yes
RADIUS traffic quota authorization	Yes
RADIUS user group authorization	Yes
Third-party authentication	No
System Performance Capacity	
Maximum number of concurrent sessions	30000
Recommended number of concurrent clients	160
Throughput	1200 Mbps

Software Specifications

Model	RG-EG105GW-X
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
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 Static IPv6 address Dynamic IP address

Software Specifications

Model	RG-EG105GW-X
	Dynamic IPv6 address PPPoE
Local upgrade	Yes
Log upload	Yes
Online upgrade	Yes
Restoring factory defaults	Yes
System language	Yes
Gateway Features	
WAN failover	Yes
Application priority	Yes
Application recognition	Yes
Behavior management	Yes
QoS	Yes
Time-based blocking policy **IP address-based blocking policy**	Yes
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

Software Specifications

Model	RG-EG105GW-X
Ethernet Switching	
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
IP Routing	
Application-based routing	Yes
Bandwidth aggregation	Yes
BGP	No
BGP4	No
BGP4+	No

Software Specifications

Model	RG-EG105GW-X
ECMP	No
IPv4 static route	Yes
IPv6 PBR	Yes
IPv6 static route	Yes
IS-ISv4	No
IS-ISv6	No
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
IP Service	
3322.org	Yes
ALG	Yes
ARP binding	Yes
Maximum number of ARP entries	1024

Software Specifications

Model	RG-EG105GW-X
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
IPv6	Yes
IPv6 ping	Yes
Number of port mapping entries	256
Port mapping	Yes

Software Specifications

Model	RG-EG105GW-X
DDNS	Yes
Ruijie DDNS	Yes
Alibaba Cloud DDNS	Yes
UPnP	Yes
SD-WAN	
SD-WAN	Yes
SD-WAN performance	300 Mbps
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)	⩾ 80%
Reliability	
Stacking	No
VRRP	No

Software Specifications

Model	RG-EG105GW-X
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
MPLS	
MPLS L2VPN	No
VPN	
IPsec VPN	Yes
IPsec VPN bandwidth	100 Mbps
Maximum number of branches in IPsec VPN networking	32
L2TP VPN	Yes

Software Specifications

Model	RG-EG105GW-X
L2TP VPN bandwidth	400 Mbps
Maximum number of branches in L2TP VPN networking	32
OpenVPN	Yes
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	

Software Specifications

Model	RG-EG105GW-X
Network detection switching time	⩽ 10s
Network Management and Monitoring	
Web management	Yes
Ruijie Cloud management	Yes
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

Software Specifications

Model	RG-EG105GW-X
SON	Yes
SSH	No
Telnet	No
Web login information	Default IP Address: 192.168.110.1 Default password: admin
Maximum number of managed devices (router mode)	AP and NBS series: 150 ES series: 128 Note: The maximum number of managed devices varies with each device series.
Security	
ACL	Yes
Extended ACL	No
IPv6 ACL	Yes
DHCP snooping	No
Malformed packet attack defense	Yes
Fragmentation attack defense	Yes
Teardrop attack defense	Yes
LAND attack defense	Yes
SYN flood attack defense	Yes
Smurf attack defense	Yes
IP attack defense	Yes

Software Specifications

Model	RG-EG105GW-X
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

Package Contents

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

Ruijie | Reyee

Redefine your easy network

Ruijie Networks Co., Ltd.

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