Ruijie | Reyee

DATASHEET

RG-EW6000GX

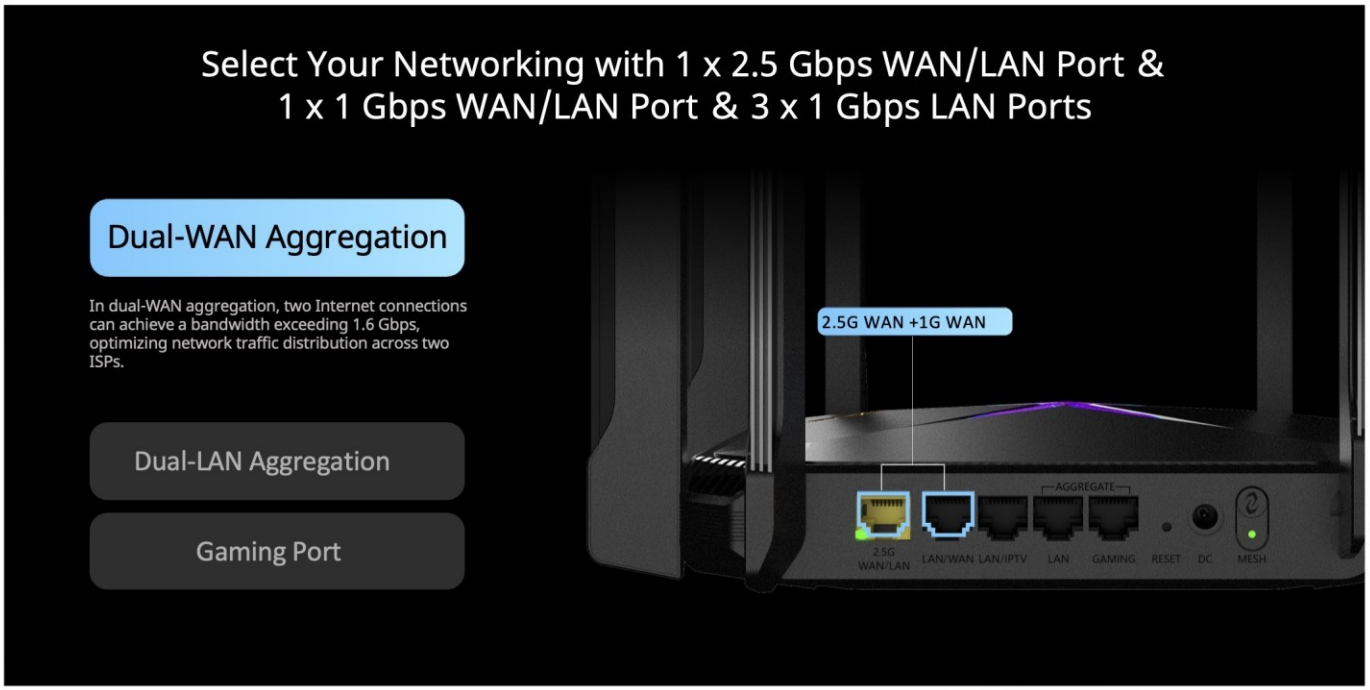
AX6000 Wi-Fi 6 Mesh Router with 2.5G Port

Highlights

- Ultra-high-speed with Wi-Fi 6 standard (160MHz)
- Quad-core enterprise level chipset
- Max clients up to 384
- Gaming port
- Strong signals received
- Cloud-based Management

Date: 2026.9.8

Highlight Features



Highlight Features

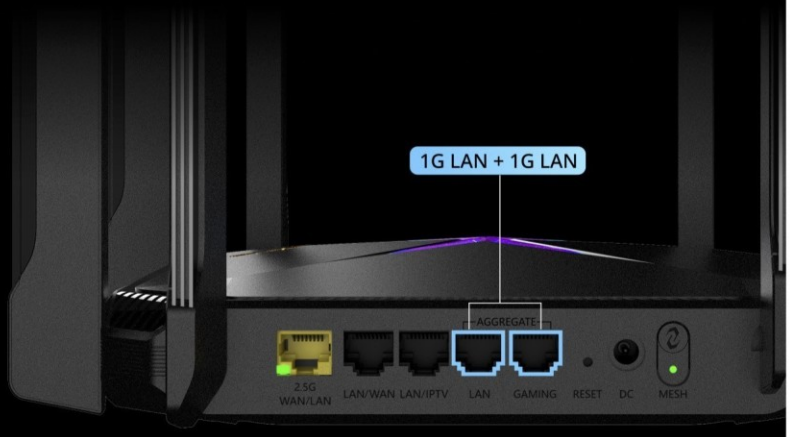
Select Your Networking with 1 x 2.5 Gbps WAN/LAN Port & 1 x 1 Gbps WAN/LAN Port & 3 x 1 Gbps LAN Ports

Dual-WAN Aggregation

Dual-LAN Aggregation

Dual-LAN aggregation allows wired devices to achieve speeds exceeding 1.6 Gbps, significantly supporting high-speed LAN transmission. The RG-EW6000GX is a good helper for vloggers, video creators, video studios.

Gaming Port



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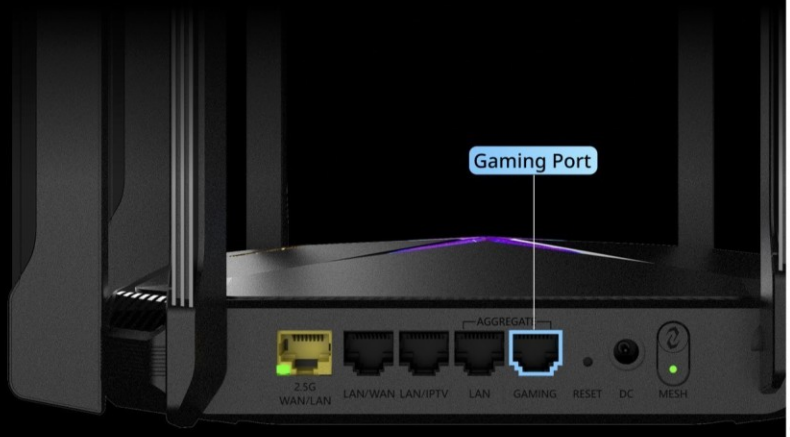
Dual-WAN Aggregation

Dual-LAN Aggregation

Gaming Port

Enable Game Turbo by connecting your computer to the gaming port—prioritizing gaming and critical apps for smooth POS, conferencing, and live streaming. Discover even more features!



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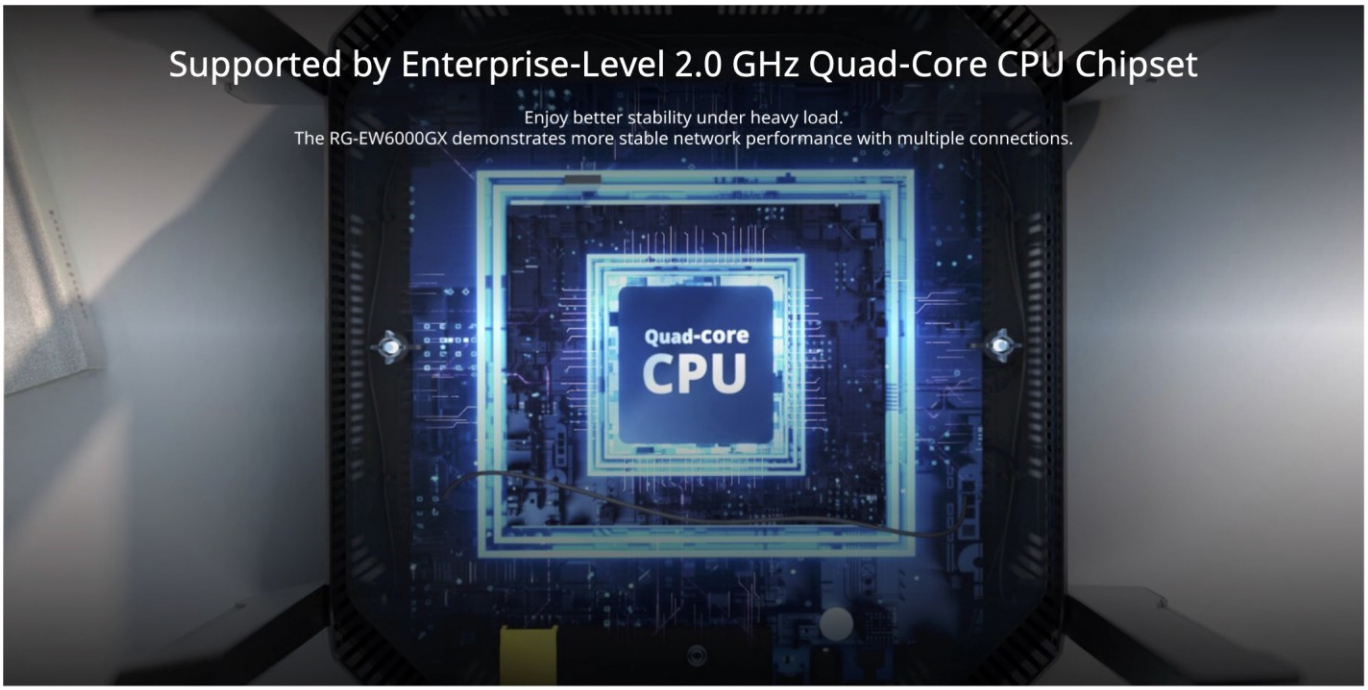

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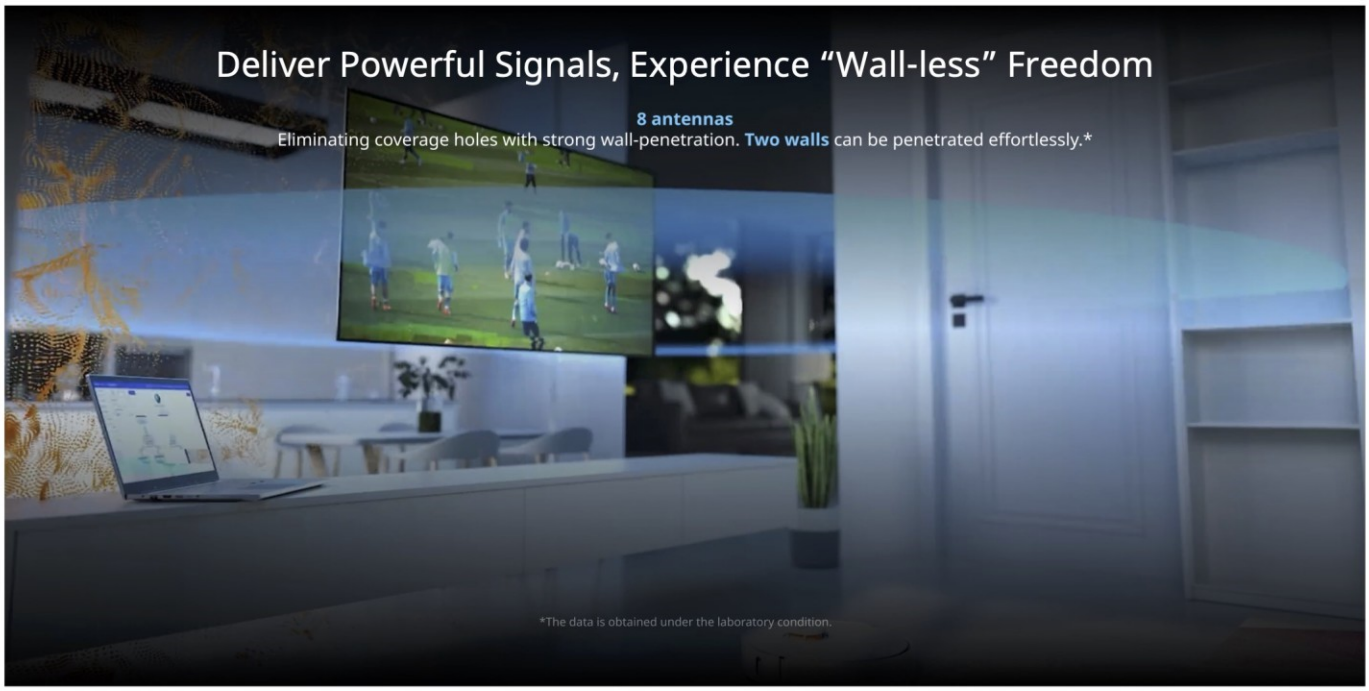

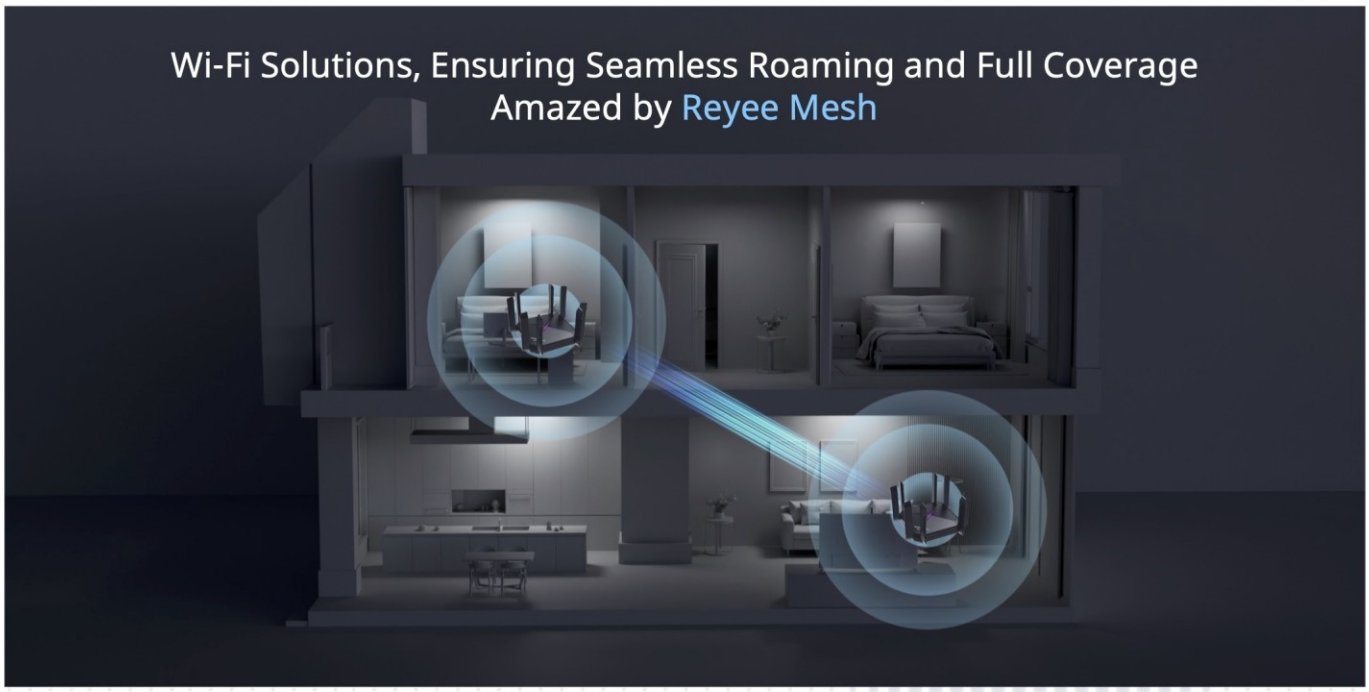

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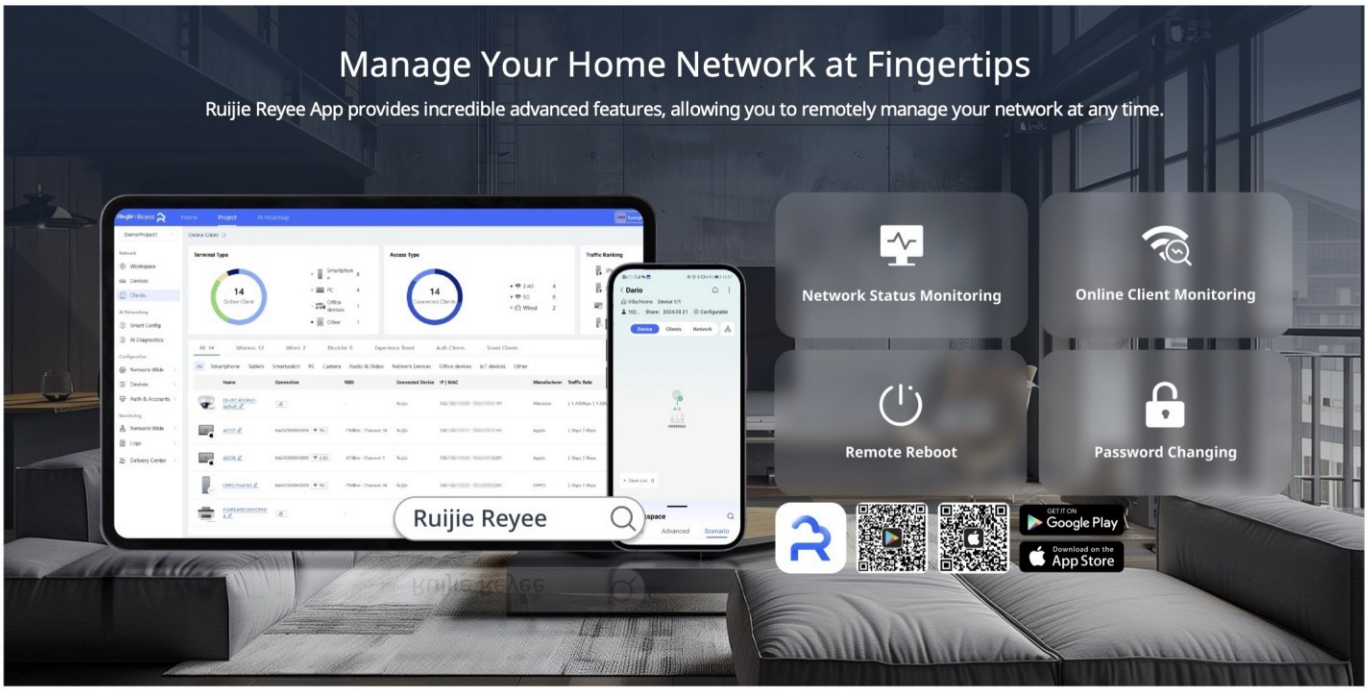

Hardware Specifications

Model	RG-EW6000GX
Product Information	
Warranty	3 years
Wi-Fi Radio	
Operating band	IEEE 802.11b/g/n/ax，2.400GHz~2.4835GHz； IEEE 802.11a/n/ac/ax，5.150GHz～5.350GHz； IEEE 802.11a/n/ac/ax，5.470GHz～5.725GHz； IEEE 802.11a/n/ac/ax，5.725GHz～5.850GHz；
FEM	iPA
Max. Wi-Fi Speed	2.4 GHz, 1147 Mbps 5 GHz, 4804 Mbps
Maximum transmit power	2.4 GHz: 802.11b: 23 dBm 802.11g: 6 Mbps 23 dBm; 54 Mbps 20 dBm 802.11n: MCS0 23 dBm; MCS7 19 dBm 802.11ac: MCS0 23 dBm; MCS7 19 dBm; MCS8 18.5 dBm; MCS9 18.5 dBm 802.11ax: MCS0 23 dBm; MCS7 19 dBm; MCS11 16.5 dBm 5 GHz: 802.11a: 6 Mbps 23 dBm; 54 Mbps 19 dBm 802.11n: MCS0 23 dBm; MCS7 19 dBm 802.11ac: MCS0 23 dBm; MCS9 17 dBm (20 Mbps/40 Mbps/80

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	Mbps) 802.11ax: MCS0 23 dBm; MCS9 17dBm (20 Mbps/40 Mbps/80 Mbps); MCS9 16 dBm (160 Mbps); MCS11 16 dBm (20 Mbps/40 Mbps/80 Mbps); MCS11 15 dBm (160 Mbps) Note: The transmit power varies according to regulations in different countries and regions.
Maximum transmit power(EIRP)	Frequency bands using and the max 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 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:

Hardware Specifications

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	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 5725-5825 MHz, EIRP ≤ 30 dBm
MIMO	2.4 GHz, 4 x 4 5 GHz, 4 x 4
Wi-Fi standard	Wi-Fi 6 (IEEE 802.11ax)
Highest QAM order	1024
2.4 GHz channel width	Auto/20/40 MHz
Dimensions and Weight	
Product dimensions (W x D x H)	200 mm x 200 mm x 43.8 mm (7.87 in. x 7.87 in. x 1.72 in.) (excluding antennas)
Weight	0.95 kg (2.09 lbs) (without packaging materials) 1.68 kg (3.7 lbs) (with packaging materials)

Hardware Specifications

Model	RG-EW6000GX
Port Specifications	
LEDs	4 x system status LEDs 1 x Mesh LED
LAN ports	4 x 10/100/1000BASE-T ports
Number of LAN/WAN ports	1 x 10/100/1000BASE-T port 1 x 10/100/1000/2500BASE-T port
WAN ports	1 x 10/100/1000/2500BASE-T port
Antenna	
Antenna	8 x external omnidirectional antennas
Antenna gain (2.4 GHz)	4.5 dBi
Antenna gain (5 GHz)	5.5 dBi
Power Supply and Consumption	
Power supply	DC 12 V 2.5 A
Certification and Regulatory Compliance	
Certification	CE, CB
System Specifications	
RAM	512 MB
Environment and Reliability	
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)

Hardware Specifications

Model	RG-EW6000GX
Storage temperature	-40 °C to +70 °C (-40 °F to 158 °F)

Software Specifications

Model	RG-EW6000GX
Basic Configurations	
LED management	Yes
Internet access mode	PPPoE, DHCP, Static IP, L2TP, WISP
Preconfiguration	Yes
Reset and keep configurations	Yes
Restoring factory defaults	Yes
Configuration backup	Yes
Local upgrade	Yes
Online upgrade	Yes
Scheduled upgrade	No
Disabling the physical Reset button	Yes
Connectivity detection configuration	Yes
AP mode	Yes
IP Service	
Port mapping	Yes
ARP binding	Yes
Number of ARP binding entries	64
DDNS	Yes
No-IP DNS	Yes
Ruijie DDNS	Yes
NAT-DMZ	Yes

Software Specifications

Model	RG-EW6000GX
Number of port mapping entries	50
UPnP	Yes
IPv6	Yes
Ethernet Switching	
WAN port aggregation	Yes
LAN port aggregation	Yes
Specifying the VLAN tag	Yes
Behavior Management	
Parental control	Yes
Client access control (based on MAC addresses)	Yes
Client access control (based on time)	Yes
Maximum number of controlled clients	32
Maximum number of parental control policies	32
Selecting clients from the client list to block their access to the Internet	Yes
Specifying MAC addresses of controlled clients	Yes
Ethernet Interface	

Software Specifications

Model	RG-EW6000GX
MAC address cloning	Yes
VLAN-based IPTV	Yes
Flow Control	
Flow control based on number of users	Yes
Standalone/Shared mode	Yes
Interface flow control	Yes
Security	
Encryption mode	WPA-PSK, WPA2-PSK, WPA/WPA2-PSK, WPA3-SAE, WPA2-PSK/WPA3-SAE
WLAN	
1024-QAM	Yes
OFDMA	Yes (DL OFDMA)
MLO	No
DFS	Yes
802.11k/v roaming	Yes
Wi-Fi blocklist capacity	64
SSID hiding	Yes
Beamforming	Yes
Rate Limiting	
Client-based rate limiting	Yes

Software Specifications

Model	RG-EW6000GX
Wireless Configuration	
Guest Wi-Fi	Yes
SIM Card Management	
Batch import of APN configurations	No
Number of APN configurations for batch import	No
Multicast	
IGMP proxy	Yes
IGMP snooping	Yes Note: Not supported by wired connections when IPTV is turned on
Network Management and Monitoring	
Line detection	Yes
Arabic	Yes
Chinese (Hong Kong Traditional)	Yes
Chinese (Simplified)	Yes
English	Yes
Indonesian	Yes
Italian	Yes
Russian	Yes
Spanish (Latin America)	Yes
Thai	Yes

Software Specifications

Model	RG-EW6000GX
Turkish	Yes
Vietnamese	Yes
Ruijie Cloud management	Yes
Scheduled device restart	Yes
eWeb login password length	8 to 63 characters
Wired repeater mode	Yes
Wireless repeater mode	Yes
WISP mode	Yes
User agreement signing	Yes
Reyee Mesh 3.0	
Reyee Mesh 3.0	Yes
Automatic switching between wired and wireless repeater mode	Yes
Recommended hop count	2
Maximum number of clients	192
Maximum number of devices	32
IPTV/VLAN	
Multiple IPTV ports	Yes
System Performance Capacity	
Recommended number of concurrent clients	16 (2.4 GHz) 64 (5 GHz)

Software Specifications

Model	RG-EW6000GX
IPTV/IGMP client capacity	5
IPTV/IGMP multicast capacity	5
IPTV/IGMP wired forwarding performance	25 Mbps
Recommended camera limit	6 (2.4 GHz) 16 (5 GHz)
VPN	
Number of concurrent tunnels supported by the OpenVPN server	8
Certificate authentication	Yes
OpenVPN bandwidth	13 Mbps
OpenVPN client	Yes
OpenVPN server	Yes
Server domain name configuration	Yes
Username and password authentication	Yes
Number of concurrent tunnels supported by the PPTP VPN server	30
PPTP VPN client	Yes
PPTP VPN server	Yes

Package Contents

Model	RG-EW6000GX
Accessories	
Ethernet cable	1
Power adapter	1
Device	
Device	1
Manual	
User Manual	1
Warranty Card	1

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Redefine your easy network

Ruijie Networks Co., Ltd.

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