



RG-EW1800GX PRO

1800M Wi-Fi 6 Dual-band Gigabit Mesh*

Router Datasheet

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Product Overview



RG-EW1800GX PRO (FRONT)



RG-EW1800GX PRO (REAR)

Product Overview

Ruijie Reyee RG-EW1800GX PRO is a Gigabit dual-band Wi-Fi 6 wireless router designed for use in large flat space, villas, small shops, SOHO, and other scenarios. It is designed to meet the needs of high quality next-generation Wi-Fi services. In addition, this router is equipped with four independent power amplifiers for intensifying signal strength. The signals from this router can cover a doubled distance compared with those from previous routers. RG-EW1800GX PRO provides one 10/100/1000Mbps WAN ports and four 10/100/1000Mbps LAN ports, with the maximum access bandwidth of 1000Mbps. The router supports the new-generation Wi-Fi 6 standard both at 2.4 GHz and 5 GHz. The maximum wireless rate is 600Mbps at 2.4 GHz, 1200Mbps at 5 GHz, and reach 1800Mbps in concurrent rate. The recommended access number of wireless terminals is up to 48, which is 50% more than the number supported by Wi-Fi 5.

Ruijie Reyee Mesh technology enables quickly connect multiple routers without cable or configurations. In this way, Wi-Fi signals can cover the entire large flat floors, complex units, duplexes, and villas. In addition, support hybrid mesh networking with whole EW Series Mesh Routers Family. The RF adjustment algorithm applied to millions of Ruijie enterprise-grade access points (APs) can provide seamless roaming among devices. Users can move around the Wi-Fi coverage area without service interruption.

RG-EW1800GX PRO supports various local and remote management platform, such as eWeb, Ruijie Cloud App. This wireless router also provides multiple popular functions, including the Parental Control Mode, Health Mode, Xpress Mode, and exclusive designed for Smart Kit System, meeting the needs of all lifestyle scenarios.

Product Features

An Unprecedented Wireless Experience in Wi-Fi 6

The state-of-the-art Wi-Fi 6 standard is supported at both 2.4 GHz and 5 GHz. With the advanced 1024-quadrature amplitude modulation (QAM) technology of Wi-Fi 6 for extremely faster wireless connection, the wireless speed is 1.5X faster than Wi-Fi 5 routers.

Born for the Multi-user

The router supports orthogonal frequency division multiple access (OFDMA) technology, under the 802.11ax Wi-Fi standard, which divides each channel into small sub-channels, allowing signals from multiple devices to be bundled together and transmitted simultaneously, reducing latency for a smoother Wi-Fi experience.

With MU-MIMO technology, the router enables multiple users to share one channel at the same time, but provides greater network capacity and efficiency in traffic-dense environments.

Penetrating Walls Easily via Stronger Signal

RG-EW1800GX PRO, at each of 2.4 GHz and 5 GHz, is equipped with two independent high-performance signal amplifiers (FEM) and Beamforming. The signal coverage performance increases by 50%. Especially, the Internet experience at 5 GHz will not be affected even across the walls.

Product Features

One-Click Reyee Mesh for Seamless Roaming and Easy Wi-Fi Extension

Reyee Mesh is a networking technology self-developed by Ruijie for multiple wireless routers' connection, which supports both wired connection and One-Click wireless pairing mode. You can click the Reyee Mesh button to complete the multiple devices pairing process with zero configuration. Reyee Mesh supports the wired bridge mode, wireless bridge mode, and hybrid bridge mode.

Terminals such as mobile phones can automatically switch and seamlessly roam between the connected routers in the same mesh network. Keep your network uninterrupted While walking around different areas.

Parental Control Helps to Care Your Childs

Users can control the Internet access authority of the specified terminal and set timing / web-block-list to limit the online duration of the specified terminal.

Accelerated Gaming in Xpress Mode

The wireless "racing mode" enhances the anti-interference capability of the router. The router is equipped with a quick network optimization module. You can tap it to improve the efficiency of the wireless channel in interference environments. This way, the game delay is shortened, allowing you to react more quickly in mobile games.

Technical Specifications

Model	RG-EW1800GX PRO
Wireless Parameters	<p>2.4 GHz, 2×2, maximum rate of 600Mbps</p> <p>5 GHz, 2×2, maximum rate of 1200Mbps</p> <hr/> <p>4 external non-detachable omnidirectional antennas</p> <hr/> <p>802.11a/b/g/n/ac/ax and DL/UL MU-MIMO</p> <hr/> <p>Independent 2.4 GHz and 5 GHz modules and dual-band mode</p> <hr/> <p>Wi-Fi channel: 2.4GHz :2.4G~2.4835GHz 5GHz: 5.150~5.250GHz, 5.250~5.350H, 5.470~5.725GH, 5.725~5.850GHz</p> <hr/> <p>Beamforming, OFDMA, and BSS color technologies</p>
Ports	<p>One 10/100/1000M WAN port (Auto MDI/MDIX)</p> <hr/> <p>Four 10/100/1000M LAN ports (Auto MDI/MDIX)</p> <hr/> <p>One Reyee Mesh LED indicator and one system LED indicator</p> <hr/> <p>One Reyee Mesh button (front) and one system reset button (rear)</p> <hr/> <p>One power port</p>

Technical Specifications

Model	RG-EW1800GX PRO
Physical	Dimensions (W × D × H): 180 mm × 180 mm × 30 mm (excluding antennas)
	Weight: 1.125 kg (including packages)
Power Supply	Power specifications: DC 12 V, 1.5 A
	Maximum power: < 18 W
Certification	CE
Operating Environment	Operating temperature: −10°C to +45°C
	Storage temperature: −40°C to +70°C
	Operating humidity: 5% to 95% (non-condensing)
	Storage humidity: 5% to 95% (non-condensing)

Software Specifications

Model	RG-EW1800GX PRO
Main features	PPPoE, DHCP, static IP address for network connection Acquisition of PPPoE accounts from old routers Dual-band mode Priority to 5G Wireless Transmission Power adjustment Automatic channel adjustment Guest Wi-Fi Rate limiting for terminal IP addresses Static DHCP address Virtual server DDNS DMZ UPnP
Network security	WPA-PSK/WPA2-PSK encryption SSID hiding Wi-Fi squatter prevention (Blacklist) Network access control IP & MAC Binding Firewall

Software Specifications

Model	RG-NBS3200-24SFP/8GT4XS
Advanced features	<p>Reyee Mesh: Supported by EW Series Routers.</p> <p>Enables Mix & Match, Self-Healing, etc</p> <p>Wireless roaming;</p> <p>Hardware NAT;</p> <p>One-click network optimization;</p> <p>Issue diagnosis;</p> <p>Remote maintenance on the cloud;</p> <p>Auto and manual software upgrade on the cloud;</p> <p>Silent upgrade of cloud software</p>
Management modes	<p>Local web pages</p> <p>Ruijie Cloud App: iOS edition and Android edition</p>

Ordering Information

Model	Description	Remarks
RG-EW1800GX PRO	1800M Wi-Fi 6 Dual-band Gigabit Mesh* Router : enterprise-grade chip solution; Gigabit broadband access; Dual-core four-thread CPU; Support for hardware NAT; Concurrent access up to 48 (recommended) terminals Wireless access: dual-band 1800Mbps, Wired access: 5 Gigabit ports, including 1 WAN port and 4 LAN ports; Support for 802.11ax protocol; Exclusive Reyee Mesh technology for multi-device; Support Seamless roaming of Wi-Fi signals 2+2 independent high-performance signal amplifiers(FEM); Management via the Ruijie Cloud App on mobile phones	Mandatory



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