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> ioGiant AC1200 4G Router User Manual

IOGIANT AC1200 4G Router

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USER MANUAL

Model: AC1200 4G Router

1. Introduction

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your ioGiant AC1200 4G Router. Please read this manual carefully before using the device to ensure optimal performance and a stable internet connection.





Figure 1: ioGiant AC1200 4G Router. This image shows the front of the router with its two external antennas and LED indicators.

2. Package Contents

Verify that all items are present in your package:

- 1 x AC1200 4G Router
- 2 x Detachable External Advanced 4G LTE Antennas
- 1 x Power Adapter (UK Plug)
- 1 x RJ45 Ethernet Patch Network Cable (5 Feet)
- 1 x Quick Installation Guide
- 1 x Nano SIM Card Adapter
- 1 x Micro SIM Card Adapter

3. Setup Guide

3.1 Hardware Installation

1. **Attach the Antennas:** Screw the two detachable external 4G LTE antennas firmly into the connectors on the back of the router. Ensure they are securely tightened for optimal signal reception.



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Figure 2: Attaching the external antennas to the router's rear ports.

- 2. Insert the SIM Card:** Before inserting, ensure the PIN code of your 4G SIM card is disabled. Use the provided Nano or Micro SIM card adapter if your SIM card is smaller than the standard size. Insert the SIM card into the designated SIM card slot on the router until it clicks into place.

SIM Card Plug & Play

Compatible with Almost All Operators, Unlocked



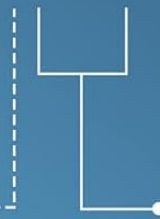
Figure 3: Illustration of SIM card insertion into the router's slot. The router supports various SIM card sizes with included adapters.

3. **Connect Power:** Connect the included power adapter to the router's power port and then plug it into a wall outlet. The router will power on automatically.
4. **(Optional) Connect Ethernet Devices:** If you wish to connect wired devices, use the provided RJ45 Ethernet cable to connect your computer, game console, or other network devices to the LAN port on the back of the router.

2 X Fast Ethernet Ports



Works as Common Router
when 4G is not Available



Connects 2 Wired Devices


Figure 4: Rear panel of the router displaying the power input, reset button, WAN/LAN port, and LAN port.

3.2 Initial Configuration

1. **Connect to Wi-Fi:** On your computer or mobile device, search for available Wi-Fi networks. Select the network name (SSID) printed on the label at the bottom of your router (e.g., "ioGiant_XXXXXX") and enter the default Wi-Fi password (Key) also found on the label.
2. **Access Web Management Interface:** Open a web browser and enter the default IP address (usually 192.168.1.1 or 192.168.0.1) into the address bar. Log in using the default username and password (typically "admin" for both, check the router label or quick installation guide).
3. **Configure APN Settings:** The router should automatically identify APN information for most operators. However, if you

experience no internet access, you may need to manually configure the APN settings.

- Verify the APN information with your mobile carrier.
- Log into the router's web interface and navigate to the network settings to enter the APN information manually.




Universal Compatibility

Works with almost all operators including Vodafone, Three UK, EE, O2, Smarty, Giffgaff, Tesco Mobile, BT Mobile, Sky Mobile, Virgin Mobile, Lebara Mobile, Talkmobile, Lycamobile, Vectone Mobile, iD Mobile. Comes with SIM card adapters and works with SIM card sizes of Nano, Micro, Mini. Note: Before getting a new SIM card, please check which network is stronger in your place. If the mobile network is poor, the router may not deliver good speed.

Figure 5: The router is compatible with most UK mobile operators, including Vodafone, Three, EE, O2, Smarty, and others.

4. **IPv4/IPv6 Compatibility:** Ensure that all your connected devices are compatible with IPv6 if your carrier provides an automatic update from IPv4 to IPv6. If not, configure the router to use only IPv4.



Important Notice

1. During the initial setup, to ensure that your SIM card functions properly in the 4G router, it is recommended to log in to the 4G router's web interface and follow the on-screen instructions to unlock the SIM card by entering the SIM card's PIN code (if any).
2. If you still have no Internet access, please verify the APN info via the WEB Management Interface of this router.
 - The router will identify APN info automatically and use them for dial-up. However, your carrier may change their APN without any notice, which results that the APN info is not identified.
 - If APN info is not identified, you need to check the APN info with your carrier and log into the WEB Management Interface to enter the APN info manually.
 - Check with your carrier whether there is an automatic update from IPv4 to IPv6. If yes, make sure that all your connected devices are compatible with IPv6, otherwise, please create a new APN info and configure only IPv4 is applied.

Figure 6: Important notice detailing steps for SIM card PIN, APN configuration, and IPv4/IPv6 compatibility checks.

4. Operating Instructions

4.1 Wi-Fi Connectivity

The ioGiant AC1200 4G Router creates a dual-band Wi-Fi network, offering speeds of 867Mbps on the 5GHz band and 300Mbps on the 2.4GHz band. This allows for flexible connectivity for various devices.

- **2.4GHz Band:** Ideal for wider coverage and connecting older devices or those that do not require high bandwidth, such as smart home devices.
- **5GHz Band:** Provides faster speeds and lower latency, suitable for online gaming, HD video streaming, and other bandwidth-intensive applications.

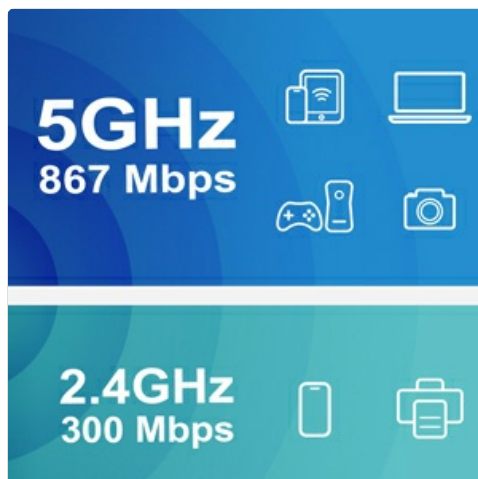


Figure 7: Breakdown of 5GHz (867 Mbps) and 2.4GHz (300 Mbps) Wi-Fi bands and their typical device compatibility.

4.2 4G LTE Network Sharing

The router allows you to share your 4G LTE network with up to 64 Wi-Fi devices simultaneously, providing download speeds of up to 150 Mbps. It supports various LTE-FDD, LTE-TDD, WCDMA, and GSM network types.

Share 4G LTE Network to WiFi

Strong 4G Connection for Faster WiFi



Figure 8: Visual representation of the router sharing a 4G LTE network, showing 4G LTE speeds and dual-band Wi-Fi distribution.

High Capacity

Simultaneously Share WiFi to **64** Devices



Figure 9: The router supports high capacity, allowing simultaneous Wi-Fi connectivity for up to 64 devices.

4.3 Security Features

The ioGiant AC1200 4G Router supports WPA2-PSK encryption to secure your Wi-Fi network and protect your data from unauthorized access. It is recommended to change the default Wi-Fi password to a strong, unique password for enhanced security.

Secure Your WiFi

Support WPA2-PSK Encryption



Figure 10: The router supports WPA2-PSK encryption to secure your wireless network.

4.4 Usage Scenarios

This router is ideal for various situations where traditional broadband is unavailable or inconvenient:

- **Remote Areas:** Provides internet access in locations without ADSL or fiber optic infrastructure, such as rural homes or holiday residences.
- **Mobile Connectivity:** Perfect for caravans, temporary offices, business meetings, or any scenario requiring portable Wi-Fi.



Figure 11: Suitable for remote homes.



Figure 12: Ideal for mobile use in caravans.

5. Maintenance

- **Cleaning:** Regularly wipe the router with a soft, dry cloth to remove dust. Do not use liquid cleaners or aerosols.
- **Antenna Care:** Ensure antennas are always securely attached and positioned for optimal signal. Avoid bending or forcing them.
- **Firmware Updates:** Periodically check the manufacturer's website or the router's web management interface for available firmware updates. Keeping the firmware updated ensures optimal performance, security, and compatibility.

6. Troubleshooting

- **No Internet Connection:**
 - Ensure your SIM card's PIN code is disabled.
 - Verify the APN settings in the router's web interface match your carrier's settings.
 - Check if your devices are compatible with IPv6 if your carrier has updated to it; otherwise, configure the router for IPv4 only.
 - Confirm that the 4G signal strength is adequate in your location.
- **Weak Wi-Fi Signal or Slow Speeds:**
 - Reposition the router to a central location, away from obstructions and other electronic devices that may cause interference.
 - Adjust the external antennas for better reception.
 - Consider using an external antenna system if you are in an area with consistently poor mobile signal (requires compatible SMA connectors).
- **Cannot Access Web Management Interface:**
 - Ensure your device is connected to the router's Wi-Fi or via an Ethernet cable.
 - Double-check the IP address entered in the browser.
 - Try clearing your browser's cache or using a different browser.
 - If all else fails, perform a factory reset (refer to the Quick Installation Guide for instructions), but note this will erase all custom settings.

7. Specifications

Feature	Detail
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Feature	Detail
Product Dimensions	18.5 x 5.5 x 12.6 cm; 260 g
Model Name	AC1200 4G Router
Brand	IOGIANT
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Wireless Standard	802.11n, 802.11ac, 802.11g
Max Wi-Fi Devices	Up to 64 devices
Max 4G LTE Download Speed	150 Mbps
Connectivity Technology	Wi-Fi, Ethernet
Included Components	Router, 2 Antennas, Power Adapter, Ethernet Cable, Quick Guide, SIM Adapters

8. Warranty and Support

For warranty information and technical support, please contact ioGiant Technology LLC directly. Refer to the contact details provided in your product packaging or visit the official ioGiant website.

You can also visit the official ioGiant store on Amazon for more product information and support resources: [ioGiant Amazon Store](#)