GL.iNet GL-A1300 (Slate Plus), GL-AX1800(Flint)

GL.iNet GL-A1300 (Slate Plus) & GL-AX1800 (Flint) Wireless Routers User Manual

Comprehensive guide for setup, operation, and maintenance.

1. Introduction and Overview

This manual provides detailed instructions for the GL.iNet GL-A1300 (Slate Plus) Wireless VPN Encrypted Travel Router and the GL-AX1800 (Flint) WiFi 6 Router. These devices offer robust and secure wireless connectivity solutions for various environments, from travel to home networks.



Image: The GL.iNet GL-A1300 (Slate Plus) travel router and the GL-AX1800 (Flint) WiFi 6 home router, showcasing their distinct designs and form factors.

The GL-A1300 (Slate Plus) is a compact, dual-band AC wireless travel router, ideal for securing your connection on the go. It features a powerful IPQ4018 @717MHz CPU and supports wireless speeds of 400Mbps (2.4G) + 867Mbps (5G).

The GL-AX1800 (Flint) is a WiFi 6 router designed for home use, offering enhanced speed and capacity for multiple connected devices. Both models are equipped with advanced features for network security and customization.

Key Features:

- **Dual Band AC Wireless:** Both routers provide dual-band connectivity for optimal performance.
- **Open Source & Programmable:** Runs on OpenWrt 21.02, allowing for extensive customization and application installation.
- **VPN Client & Server:** Pre-installed OpenVPN and WireGuard, compatible with over 30 VPN service providers for secure browsing.
- **Network Storage:** Supports SAMBA and WebDav protocols for creating private network storage via external USB drives.
- **Versatile Use:** Suitable for various environments including hotels, cafes, airports, and RVs, ensuring secure connections.

- **GL-AX1800 Specific:** WiFi 6 technology, 5 Gigabit ports, USB 3.0 port, and support for up to 120 connected devices.

2. Setup Guide

This section outlines the basic steps to set up your GL.iNet router. For detailed configuration, please refer to the official user guide provided with your product or available on the GL.iNet website.

2.1. Package Contents

Before you begin, ensure all components are present in your package:

- GL.iNet Router (GL-A1300 or GL-AX1800)
- Power Adapter
- Ethernet Cable
- User Guide (Quick Start Guide)

2.2. Initial Connection (GL-AX1800 Flint Example)

Follow these steps to connect your router for the first time:

1. **Connect Power:** Plug the power adapter into the router's power port and then into a wall outlet.
2. **Connect to Internet (WAN):** Connect one end of the Ethernet cable to the WAN port (usually distinctively colored or labeled) on your router and the other end to your modem or existing network's Ethernet port.
3. **Connect Devices (LAN/Wi-Fi):**
    - For wired devices, connect an Ethernet cable from your computer or other device to any of the LAN ports on the router.
    - For wireless devices, locate the Wi-Fi network name (SSID) and password printed on the router's label. Connect your device to this Wi-Fi network.
4. **Access Admin Panel:** Open a web browser on a connected device and navigate to the default IP address (usually http://192.168.8.1). Follow the on-screen instructions to set up your administrator password and configure basic settings.

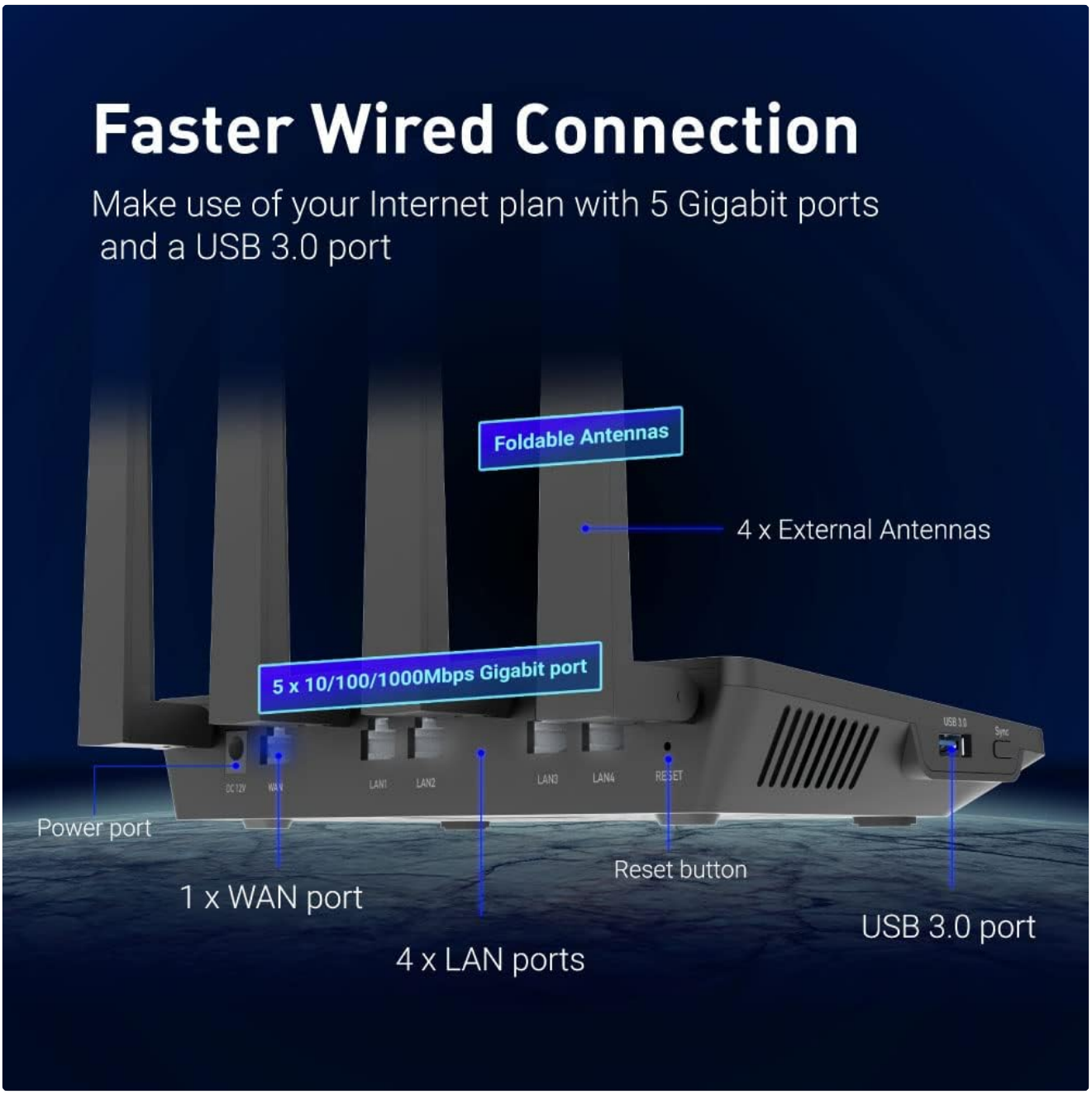


Image: Rear view of the GL.iNet GL-AX1800 (Flint) router, highlighting the power port, WAN port, four LAN ports, reset button, and USB 3.0 port. The foldable antennas are also visible.

3. Operating Instructions

This section covers the primary functionalities and advanced features of your GL.iNet router.

3.1. Admin Panel Overview (OpenWrt)

Both routers run on the OpenWrt 21.02 operating system, providing a highly customizable and user-friendly web interface. From the admin panel, you can manage network settings, security features, and install additional applications.

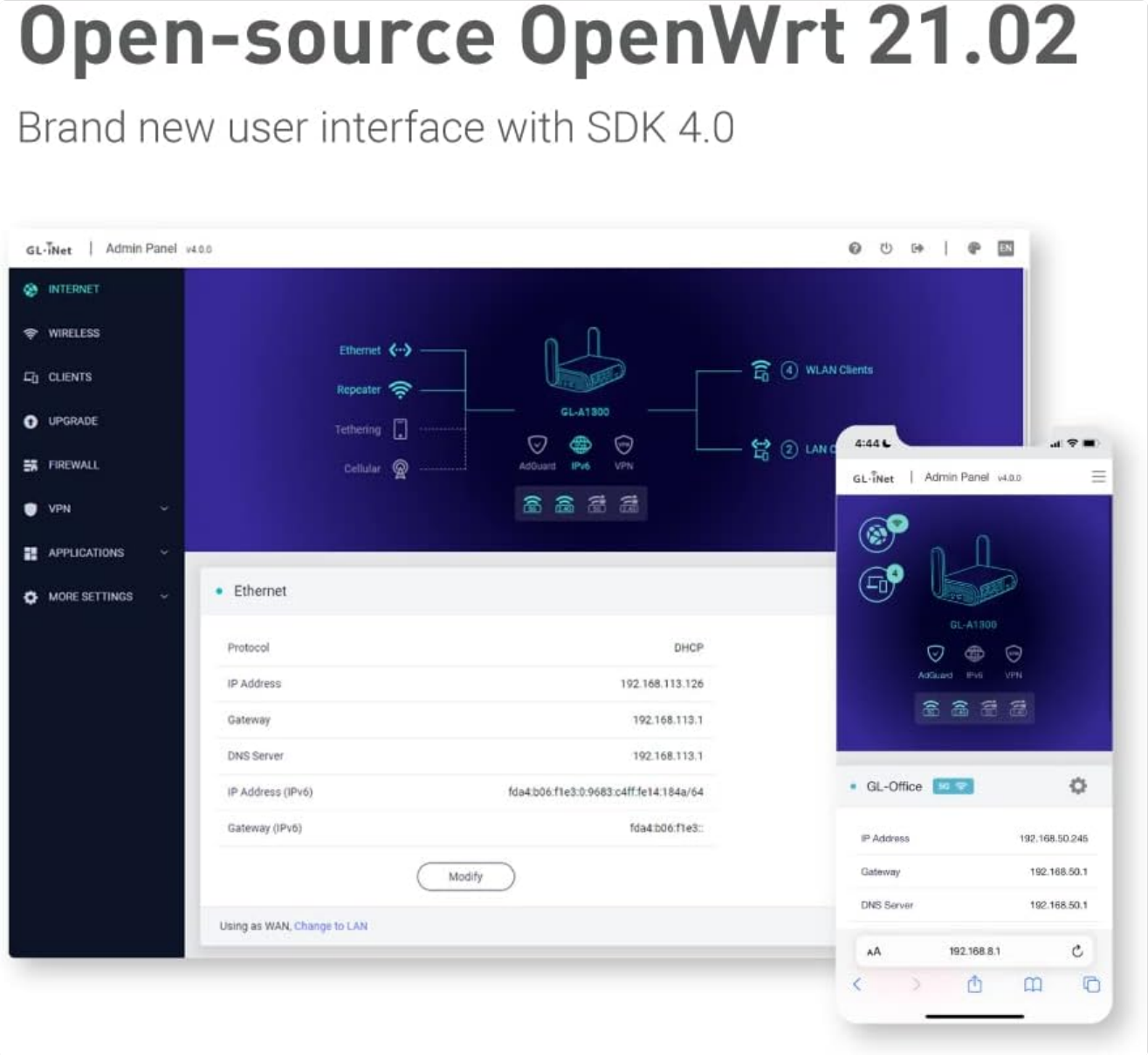


Image: Screenshot of the GL.iNet router's OpenWrt 21.02 admin panel interface, showing network status and configuration options on both desktop and mobile views.

3.2. VPN Client and Server

Your GL.iNet router comes with OpenVPN and WireGuard pre-installed, offering robust VPN capabilities. This allows you to encrypt your internet traffic and bypass geo-restrictions.

- **VPN Client:** Connect your entire network to a VPN service provider. The router supports over 30 providers.
- **VPN Server:** Access your home network securely from anywhere using the router as a VPN server.

The GL-A1300 (Slate Plus) achieves a maximum VPN speed of 28 Mbps (OpenVPN) and 190 Mbps (WireGuard). The GL-AX1800 (Flint) offers even higher speeds, with up to 112 Mbps for OpenVPN and 500 Mbps for WireGuard.



Image: Diagram illustrating the maximum VPN speeds for WireGuard (190 Mbps) and OpenVPN (28 Mbps) via Ethernet on the GL-A1300 Slate Plus, along with logos of supported VPN protocols like OpenVPN, WireGuard, Cloudflare, and IPv6.



Image: Graphic displaying the maximum VPN speeds for the GL-AX1800 Flint router: 112 Mbps for OpenVPN and 500 Mbps for WireGuard, emphasizing compatibility with over 30 VPN service providers.

3.3. Network Storage (SAMBA & WebDav)

Both routers support network storage functionality. By plugging an external USB hard drive or USB stick into the router's USB port, you can create a private network storage accessible via SAMBA and WebDav protocols. This allows you to store and share documents, media, and other files across your network.



Image: A GL.iNet router connected to an external hard drive via its USB port, illustrating the network storage feature that supports SAMBA and WebDav protocols for sharing files.

3.4. Travel and Portable Use (GL-A1300 Slate Plus)

The GL-A1300 (Slate Plus) is specifically designed for travel. Its compact form factor allows for easy portability, ensuring you can maintain a secure and private network wherever you go, whether in a hotel, cafe, airport, or RV.



Image: A person placing the compact GL.iNet GL-A1300 (Slate Plus) router into a pocket, demonstrating its portability for travel.

3.5. Wi-Fi 6 Connectivity (GL-AX1800 Flint)

The GL-AX1800 (Flint) leverages Wi-Fi 6 technology to provide faster speeds, lower latency, and increased capacity for your home network. It works seamlessly with all your existing Wi-Fi devices and can support up to 120 connected wireless devices simultaneously.



Image: Graphic illustrating the Wi-Fi 6 capabilities of the GL-AX1800 Flint router, showing maximum speeds of 1200 Mbps on 5GHz and 600 Mbps on 2.4GHz, compatible with various devices like smart TVs, laptops, game consoles, phones, and Wi-Fi speakers.



Image: An overhead view of the GL.iNet GL-AX1800 Flint router surrounded by various electronic devices (tablet, phone, game controller, smart speaker), demonstrating its ability to connect up to 120 wireless devices simultaneously.

4. Maintenance

Regular maintenance ensures optimal performance and longevity of your GL.iNet router.

- **Firmware Updates:** Periodically check for and install the latest firmware updates via the router's admin panel. Firmware updates often include performance improvements, security patches, and new features.
- **Physical Cleaning:** Keep the router free from dust and debris. Use a soft, dry cloth to clean the exterior. Ensure ventilation holes are not blocked to prevent overheating.
- **Proper Placement:** Place the router in an open area, away from obstructions, large metal objects, and other electronic devices that might cause interference. This helps maintain strong Wi-Fi signals.
- **Power Cycle:** If you experience minor network issues, try power cycling the router (unplugging it from power for 10-15 seconds and then plugging it back in).

5. Troubleshooting

This section provides solutions to common issues you might encounter with your GL.iNet router.

5.1. No Internet Connection

- **Check Cables:** Ensure all Ethernet cables are securely connected to the correct ports (WAN to modem, LAN to devices).
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection. Try restarting your modem.
- **Router Reboot:** Power cycle your GL.iNet router.
- **WAN Settings:** Access the router's admin panel and check the WAN (Internet) settings. Ensure they are configured correctly for your internet service provider (e.g., DHCP, PPPoE).

5.2. Wi-Fi Connectivity Issues

- **Incorrect Password:** Double-check that you are entering the correct Wi-Fi password (SSID and password are usually on a sticker on the router).
- **Signal Strength:** Move closer to the router to check if the signal improves. Obstacles like walls and large furniture can weaken Wi-Fi signals.
- **Channel Interference:** In the admin panel, try changing the Wi-Fi channel for both 2.4GHz and 5GHz bands to a less congested one.
- **Firmware:** Ensure your router's firmware is up to date.

5.3. Slow Internet Speed

- **Bandwidth Usage:** Check if multiple devices are consuming high bandwidth (e.g., streaming, large downloads).
- **Router Placement:** Optimize router placement for better signal coverage.
- **ISP Speed:** Test your internet speed directly from the modem to rule out ISP issues.
- **VPN Overhead:** If using VPN, note that VPN encryption adds overhead and can reduce speeds. Refer to the expected VPN speeds in Section 3.2.

5.4. Factory Reset

If you encounter persistent issues or forget your admin password, you can perform a factory reset. This will revert all settings to their default values. Locate the reset button on your router (often a small pinhole) and press and hold it for approximately 5-10 seconds while the router is powered on, until the indicator lights change.

6. Specifications

Detailed technical specifications for the GL.iNet GL-A1300 (Slate Plus) and GL-AX1800 (Flint) routers.

Feature	GL-A1300 (Slate Plus)	GL-AX1800 (Flint)
Model Name	GL-A1300 (Slate Plus)	GL-AX1800 (Flint)
Brand	GL.iNet	

Feature	GL-A1300 (Slate Plus)	GL-AX1800 (Flint)
Wireless Standard	802.11ac (Wi-Fi 5)	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)	
CPU	IPQ4018 @717MHz	(Not specified in input, typically more powerful for Wi-Fi 6)
Wireless Speed	400Mbps (2.4G) + 867Mbps (5G)	Max. 600 Mbps (2.4GHz), Max. 1200 Mbps (5GHz)
Ethernet Ports	(Typically 1 WAN, 1 LAN for travel routers)	5 Gigabit ports (1 WAN, 4 LAN)
USB Port	(Typically USB 2.0 or 3.0)	USB 3.0
VPN Speed (OpenVPN)	Max. 28 Mbps	Max. 112 Mbps
VPN Speed (WireGuard)	Max. 190 Mbps	Max. 500 Mbps
Operating System	OpenWrt 21.02	
Special Feature	WPS	
Included Components	Router, power adapter, Ethernet cable, user guide	

7. Warranty and Support

GL.iNet products typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official GL.iNet website.

7.1. Customer Support

If you encounter issues that cannot be resolved using the troubleshooting steps in this manual, or if you require further assistance, please contact GL.iNet customer support:

- **Official Website:** Visit the GL.iNet official website for support resources, FAQs, firmware downloads, and contact information.
- **Community Forums:** GL.iNet also maintains active community forums where users can find solutions and share experiences.

When contacting support, please have your product model number (GL-A1300 or GL-AX1800) and a detailed description of the issue ready.

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