GL.iNet GL-AX1800

GL.iNet GL-AX1800 (Flint) WiFi 6 Router User Manual

Model: GL-AX1800 | Brand: GL.iNet

1. Product Overview

The GL.iNet GL-AX1800 (Flint) is a high-performance WiFi 6 router designed to provide fast, stable, and secure wireless internet connectivity for homes and offices. It supports dual-band gigabit wireless speeds, features multiple Ethernet ports, and offers advanced security and privacy options including OpenVPN, WireGuard, and AdGuard Home.



Figure 1: GL.iNet GL-AX1800 (Flint) WiFi 6 Router

Key features include:

- **WiFi 6 Standard with Low-Latency:** Achieves speeds up to 1.8 Gbps (600Mbps on 2.4GHz, 1200Mbps on 5GHz) for smoother 4K streaming, gaming, and video calls.
- **Faster OpenVPN & WireGuard:** Supports WireGuard VPN speeds up to 500 Mbps, providing enhanced control over bandwidth and privacy.
- **AdGuard Home & EAP Supported:** Integrated Internet filtering software for blocking ads and online trackers, with Web UI for easy management.
- **Connect up to 120 Devices:** Utilizes OFDMA technology to efficiently communicate with multiple devices simultaneously, increasing capacity and efficiency.
- **Multiple Gigabit Ethernet Ports:** Equipped with 5 x 1G Ethernet ports for reliable wired connections.

2. Initial Setup

Follow these steps to set up your GL.iNet GL-AX1800 (Flint) router:

1. **Connect Hardware:**
    - Connect the provided Power Adapter to the router's DC 12V port and plug it into a power outlet.
    - Connect your modem or existing router's LAN port to the GL-AX1800's WAN port using the provided Ethernet

Cable.

- For initial configuration, connect your computer to one of the GL-AX1800's LAN ports using an Ethernet cable, or connect wirelessly to the default Wi-Fi network (SSID: GL-AX1800-XXX, password on the router label).

2. **Access Admin Panel:**
   - Open a web browser on your connected device and navigate tohttp://192.168.8.1.
   - Follow the on-screen prompts to set up your new admin password and configure basic Wi-Fi settings (SSID and password).
3. **Update Firmware (Recommended):**
   - Once logged into the admin panel, navigate to the 'Upgrade' section.
   - Check for and install any available firmware updates to ensure optimal performance and security.

Your browser does not support the video tag.

Video 1: Introduction to GL-AX1800 (Flint) WiFi 6 Router. This video provides a visual guide to the initial setup and features of the router.

3. Ports and Indicators

The GL-AX1800 router features several ports and LED indicators for connectivity and status monitoring:

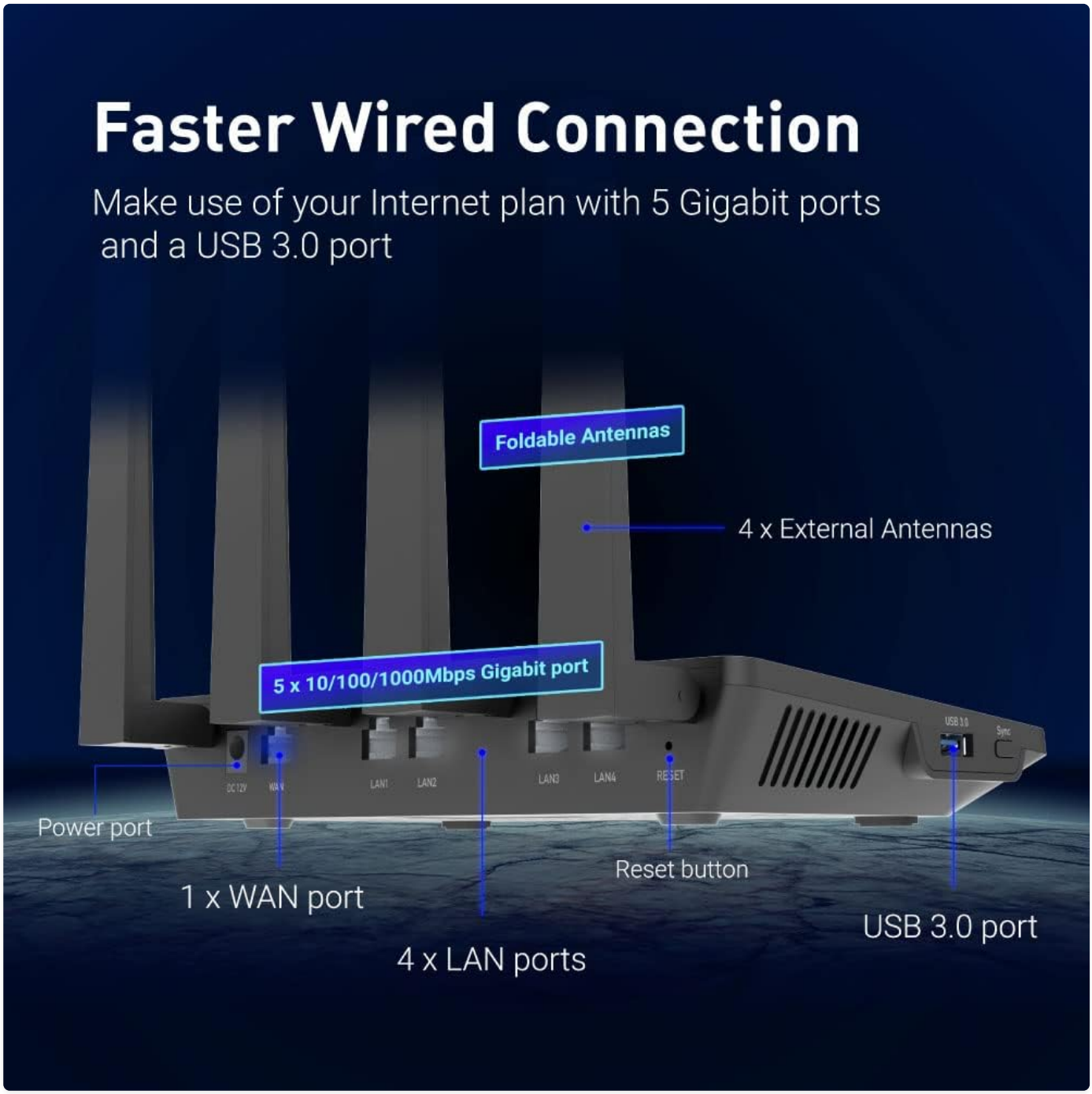


Figure 2: Rear view of the GL-AX1800 (Flint) showing ports and buttons.

- **DC 12V Power Port:** Connects to the included 12V DC power adapter.
- **WAN Port (Blue):** Connects to your modem or main internet source. This port can also function as a LAN port when the router is used in repeater mode.
- **LAN Ports (LAN1-LAN4):** Four Gigabit Ethernet ports for connecting wired devices such as computers, gaming consoles, or network-attached storage (NAS).
- **Reset Button:** Used to reset the router to factory default settings. Press and hold for 5-10 seconds while powered on.
- **USB 3.0 Port:** For connecting external storage devices (e.g., USB drives, external hard drives) to share files across the network.
- **Sync Button:** A multi-function button, often used for WPS (Wi-Fi Protected Setup) or other quick actions depending on firmware configuration.
- **LED Indicator:** A single LED light on the top surface indicates the router's status (e.g., booting, internet connection, VPN status).

4. Advanced Features

The GL-AX1800 (Flint) router is equipped with several advanced features to enhance your networking experience:

4.1. Wi-Fi 6 (802.11ax) Technology

Wi-Fi 6 is the next generation of Wi-Fi technology, offering significant improvements over previous standards. The GL-AX1800 leverages Wi-Fi 6 to provide:

- **Higher Speeds:** Up to 1.8 Gbps combined wireless speed across 2.4GHz and 5GHz bands.
- **Increased Capacity:** Efficiently handles more connected devices simultaneously without performance degradation.
- **Lower Latency:** Reduces delays for smoother gaming and video conferencing.
- **Improved Battery Life for Devices:** Target Wake Time (TWT) technology allows devices to negotiate when and how often they will wake up to send or receive data, increasing sleep time and battery life.



Figure 3: Wi-Fi 6 capabilities showing 5GHz (Max. 1200 Mbps) and 2.4GHz (Max. 600 Mbps) speeds.

4.2. VPN Client and Server

The router supports both VPN client and server functionalities, allowing you to secure your network traffic and access geo-restricted content:

- **WireGuard VPN:** Offers high-speed encryption with up to 500 Mbps, ideal for demanding applications.
- **OpenVPN:** A widely supported VPN protocol for secure connections.
- **VPN Policies:** Configure specific devices or domains to use or bypass the VPN tunnel.
- **Tor (The Onion Router):** Provides enhanced anonymity by routing traffic through a distributed network.



Figure 4: Overview of VPN speeds and supported services.

4.3. AdGuard Home

AdGuard Home is pre-installed on the GL-AX1800, providing network-wide ad and tracker blocking without needing client-side software on each device. This enhances browsing speed and privacy.

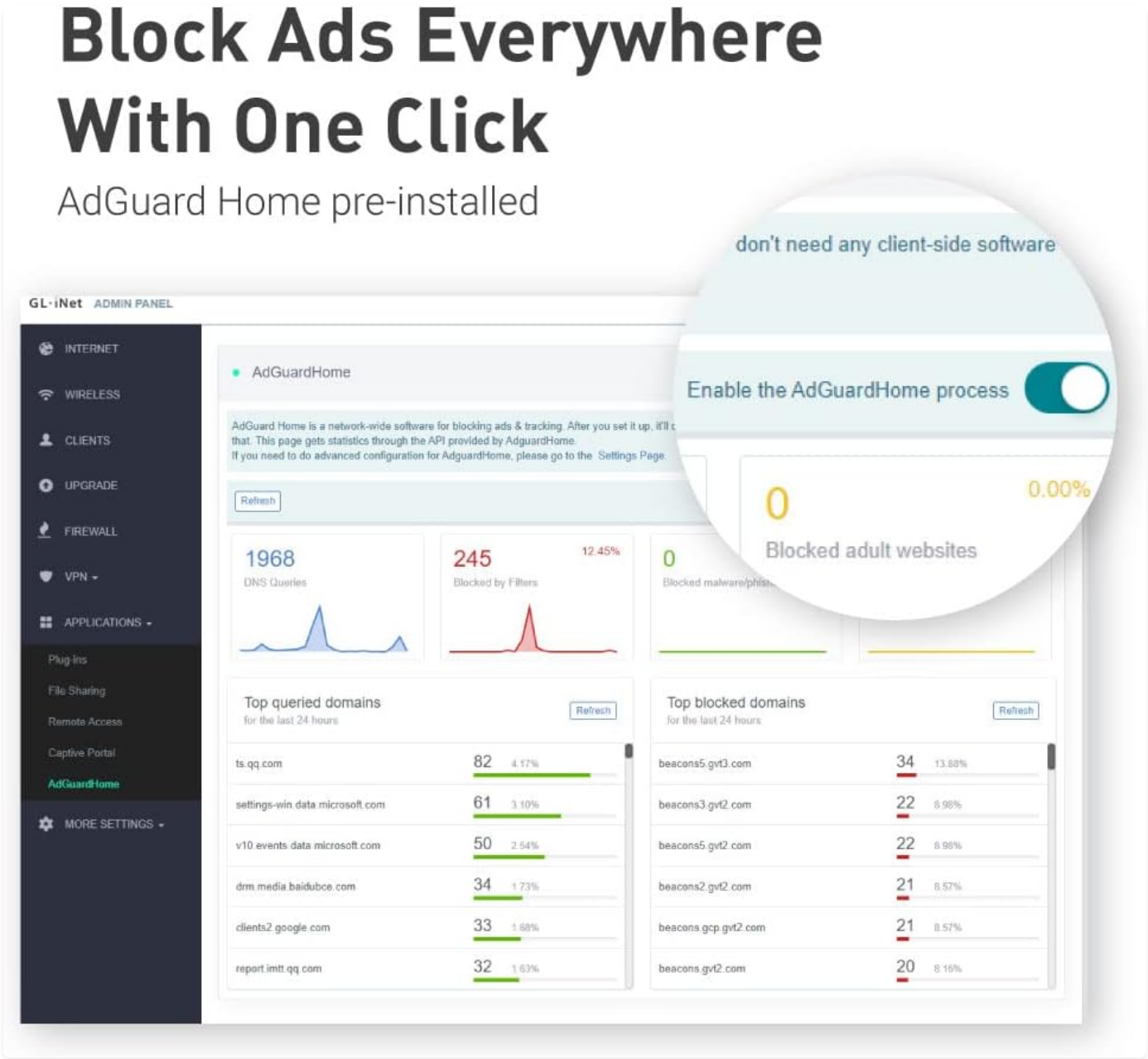


Figure 5: AdGuard Home interface for managing ad and tracker blocking.

4.4. MU-MIMO Technology

Multi-User, Multiple-Input, Multiple-Output (MU-MIMO) technology allows the router to communicate with multiple devices simultaneously, rather than sequentially. This improves network efficiency and throughput, especially in environments with many connected devices.



Figure 6: The router supports up to 120 connected wireless devices simultaneously.

5. Operating Modes

The GL-AX1800 (Flint) can operate in various modes to suit different networking needs:

- **Router Mode:** The standard operating mode where the device acts as the primary router for your network, providing internet access to all connected devices.
- **Repeater Mode:** Extends the range of an existing Wi-Fi network. In this mode, the router connects wirelessly to another Wi-Fi network and re-broadcasts it, improving coverage in dead zones. The WAN port can be reconfigured as an additional LAN port in this mode.
- **Access Point (AP) Mode:** Converts a wired network connection into a wireless one. Ideal for adding Wi-Fi capabilities to a wired-only network.
- **Bridge Mode:** Connects two separate networks, allowing devices on both networks to communicate.

6. Technical Specifications

Feature	Specification
Model Name	GL-AX1800
Brand	GL.iNet
Wireless Communication Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
2.4GHz Wi-Fi Speed	Up to 600Mbps
5GHz Wi-Fi Speed	Up to 1200Mbps
Ethernet Ports	5 x 1G (1 WAN, 4 LAN)
USB Port	1 x USB 3.0
VPN Support	OpenVPN, WireGuard (up to 500 Mbps)
Ad Blocking	AdGuard Home integrated
Security Protocols	WPA3
Dimensions	9.65 x 8.23 x 2.44 inches
Item Weight	15.8 ounces

7. What's in the Box

The GL.iNet GL-AX1800 (Flint) package includes:

- GL-AX1800 (Flint) router
- Power Adapter (US Plug)
- Ethernet Cable
- User Manual

8. Troubleshooting

Here are solutions to common issues you might encounter:

- **No Internet Connection:**

    - Ensure the WAN cable is securely connected to both the router and your modem/internet source.
    - Reboot your modem and then your GL-AX1800 router.
    - Check your internet service provider (ISP) status.
- **Slow Wi-Fi Speed:**
    - Ensure your devices support Wi-Fi 6 for optimal performance.
    - Try changing Wi-Fi channels in the admin panel to avoid interference.
    - Reduce the number of active devices or bandwidth-intensive activities.
    - Check the router's placement; ensure it's centrally located and free from obstructions.
- **VPN Not Connecting:**
    - Verify your VPN credentials and server settings in the router's admin panel.
    - Ensure your VPN service is active and not experiencing outages.
    - If using WireGuard, ensure the configuration file is correctly uploaded.
- **Cannot Access Admin Panel:**
    - Ensure your device is connected to the router's network (wired or wireless).
    - Try clearing your browser's cache or using a different browser.
    - If you forgot your password, you may need to perform a factory reset (see Ports and Indicators section for reset button location).

9. Maintenance

To ensure the longevity and optimal performance of your GL-AX1800 (Flint) router:

- **Regular Firmware Updates:** Check for and install firmware updates regularly via the admin panel. Updates often include performance improvements, security patches, and new features.
- **Proper Ventilation:** Ensure the router is placed in a well-ventilated area to prevent overheating. Avoid placing it in enclosed spaces or covering its vents.
- **Periodic Reboot:** A periodic reboot (e.g., once a month) can help clear temporary glitches and refresh network connections.
- **Cleanliness:** Keep the router free from dust and debris. Use a soft, dry cloth for cleaning.

10. Warranty and Support

The GL-AX1800 (Flint) router comes with a 2-year warranty. For technical assistance or further inquiries, please refer to the official GL.iNet support resources.

- **Official User Guide (PDF):** For detailed instructions and advanced configurations, you can download the official user guide here.
- **Technical Support:** GL.iNet offers technical support through their official website and community forums. Many users have reported positive experiences with their responsive and patient support agents.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question