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› GL.iNet GL-AR300M16 Portable Mini Travel Wireless Pocket Router Instruction Manual

GL.iNet GL-AR300M16

GL.iNet GL-AR300M16 Portable Mini Travel Wireless Pocket Router Instruction Manual

Model: GL-AR300M16

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your GL.iNet GL-AR300M16 Portable Mini Travel Wireless Pocket Router. Please read this manual thoroughly before using the device to ensure proper functionality and optimal performance.



Figure 1: GL.iNet GL-AR300M16 Portable Mini Travel Wireless Pocket Router. This image shows the compact, dark gray router from an angled perspective, highlighting its small size and minimalist design.

2. PRODUCT OVERVIEW

2.1 Package Contents

- GL-AR300M16 mini router
- USB Cable
- Ethernet Cable
- User Manual

2.2 Device Layout and Dimensions



Figure 2: Device Layout and Dimensions. This image illustrates the router's ports (WAN, LAN, Power, USB 2.0), buttons (Repair/Restore, Mode Switch), and indicator lights (Wireless, Configurable, Power). The dimensions are shown as 58mm (2.28") x 58mm (2.28") x 25mm (0.98"), with a weight of 40g (1.41oz).

Portable and Flexible

Travel-sized and Compact Design Fits in with Any Pockets



Figure 3: USB and Micro USB Ports. A close-up view showing the USB port for tethering and 3G/4G USB modems, and the Micro USB port for power (5V/1A DC adapters, laptop USB, or power banks).

3. SETUP

3.1 Initial Power On

Connect the router to a power source using the provided USB cable. The power source can be a laptop USB port, a power bank, or a 5V/2A DC adapter (sold separately). The indicator lights on the router will illuminate upon successful power-on.

3.2 Accessing the Admin Panel

To configure your router, access the web-based admin panel. Connect your device (computer or smartphone) to the router's Wi-Fi network (SSID and password are on the bottom label of the router). Then, open a web browser and navigate to 192.168.8.1.

Video 1: How to Access Admin Panel. This video provides a step-by-step guide on how to log into the GL.iNet router's administration interface via a web browser.

3.3 Connecting to the Internet

The GL-AR300M16 offers multiple methods to connect to the internet:

- **Cable:** Connect an Ethernet cable from your modem/router to the GL-AR300M16's WAN port.
- **Repeater:** Extend an existing Wi-Fi signal. This is useful in hotels or public networks.
- **USB Modem:** Connect a 3G/4G USB modem to the router's USB port.
- **Tethering:** Connect your smartphone via USB to share its mobile data connection.

Methods to access the Internet

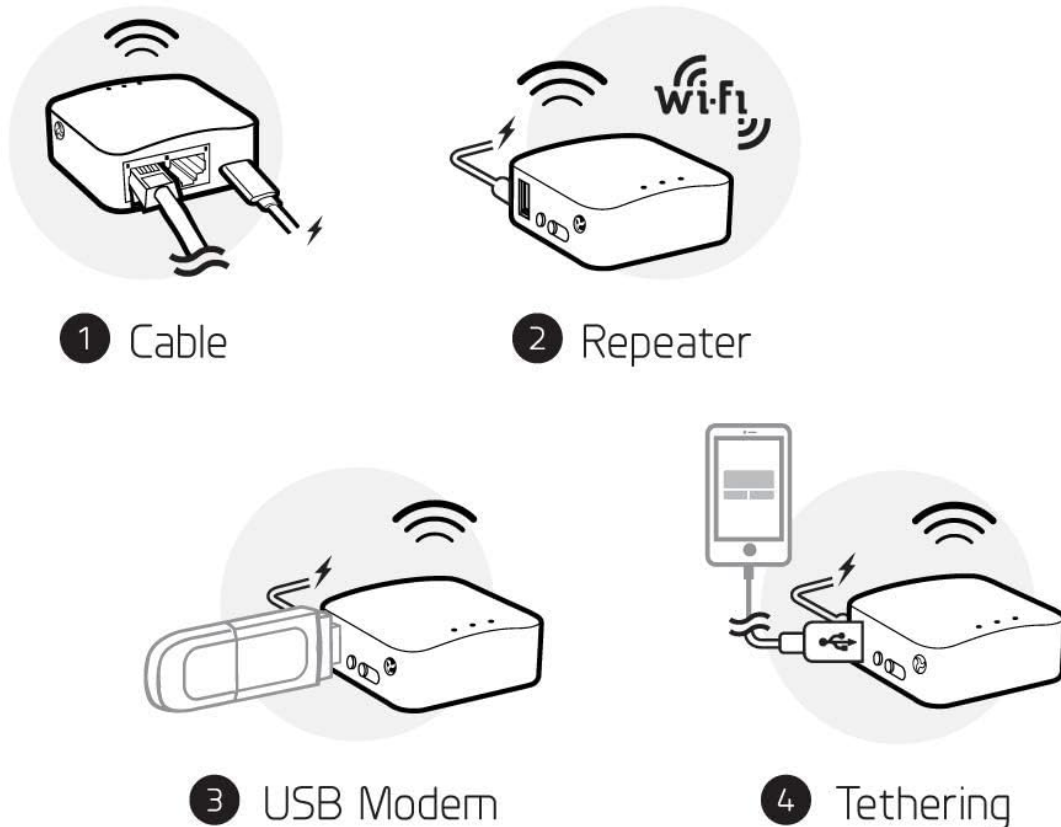


Figure 4: Methods to Access the Internet. This diagram visually explains four ways to connect the router to the internet: via Cable, as a Repeater, using a USB Modem, or through Phone Tethering.

3.3.1 Repeater Mode Setup

To use the router as a repeater, navigate to the 'Internet' section in the admin panel, select 'Repeater', and click 'Scan' to find available Wi-Fi networks. Select your desired network and enter the password if required. If a captive portal does not appear, you may need to temporarily disable 'DNS Rebinding Attack Protection' in 'More Settings > Custom DNS Server' to access the portal, then re-enable it.

Video 2: How to Connect Public/Hotel Wi-Fi through Repeater. This video demonstrates the process of connecting the GL.iNet router to a public or hotel Wi-Fi network using repeater mode, including steps for handling captive portals.

3.3.2 Tethering Setup

To use your smartphone's mobile data via tethering, connect your phone to the router using a USB cable. Ensure personal hotspot is enabled on your phone and 'Allow Others to Join' is active. Then, in the router's admin panel under 'Internet', select 'Tethering' and click 'Connect'.

Video 3: Instruction of setup Tethering. This video guides users through setting up USB tethering with their GL.iNet router, connecting a smartphone to share its internet connection.

4. OPERATING MODES

The GL-AR300M16 supports various operating modes to suit different networking needs:

- **Router Mode:** Creates a new private Wi-Fi network from a wired internet connection.
- **Repeater Mode:** Extends the range of an existing Wi-Fi network.
- **Access Point (AP) Mode:** Converts a wired network into a wireless access point.
- **Hotspot Mode:** Shares a 3G/4G USB modem or tethered phone's internet connection.

Quickly Create an Internet Access Anywhere

Use as a Router, Repeater, Access Point or Wi-Fi Hotspot

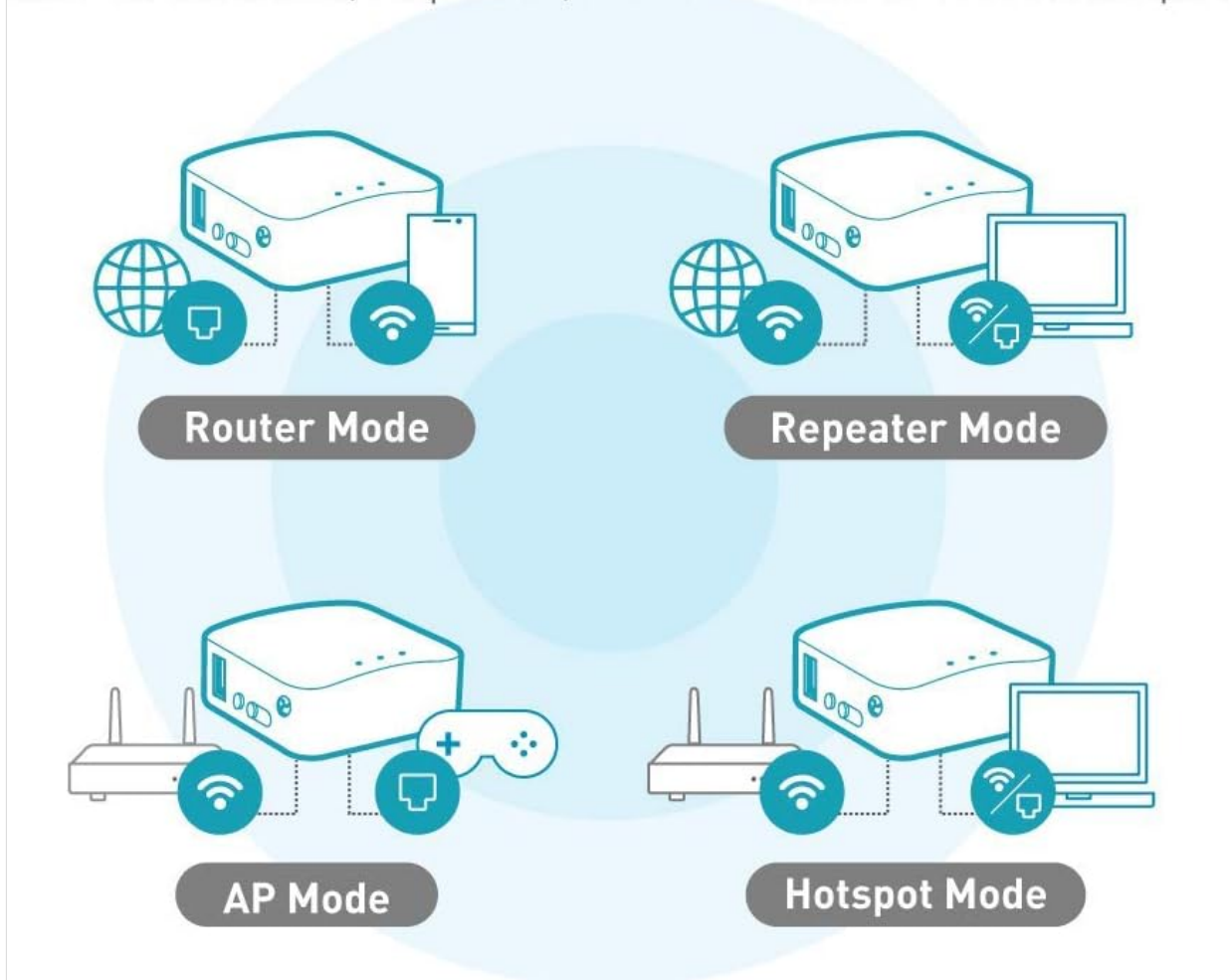


Figure 5: Quickly Create an Internet Access Anywhere. This diagram illustrates the four primary operating modes: Router Mode, Repeater Mode, AP Mode, and Hotspot Mode, showing how the device can be used in various scenarios.

5. ADVANCED FEATURES

5.1 VPN Client & Server

The router comes with OpenVPN and Wireguard VPN client and server pre-installed, offering compatibility with over 30 VPN service providers. This feature enhances network security and privacy.

Advanced Security

Keeps Your Network Safe with Advanced Security Encryption

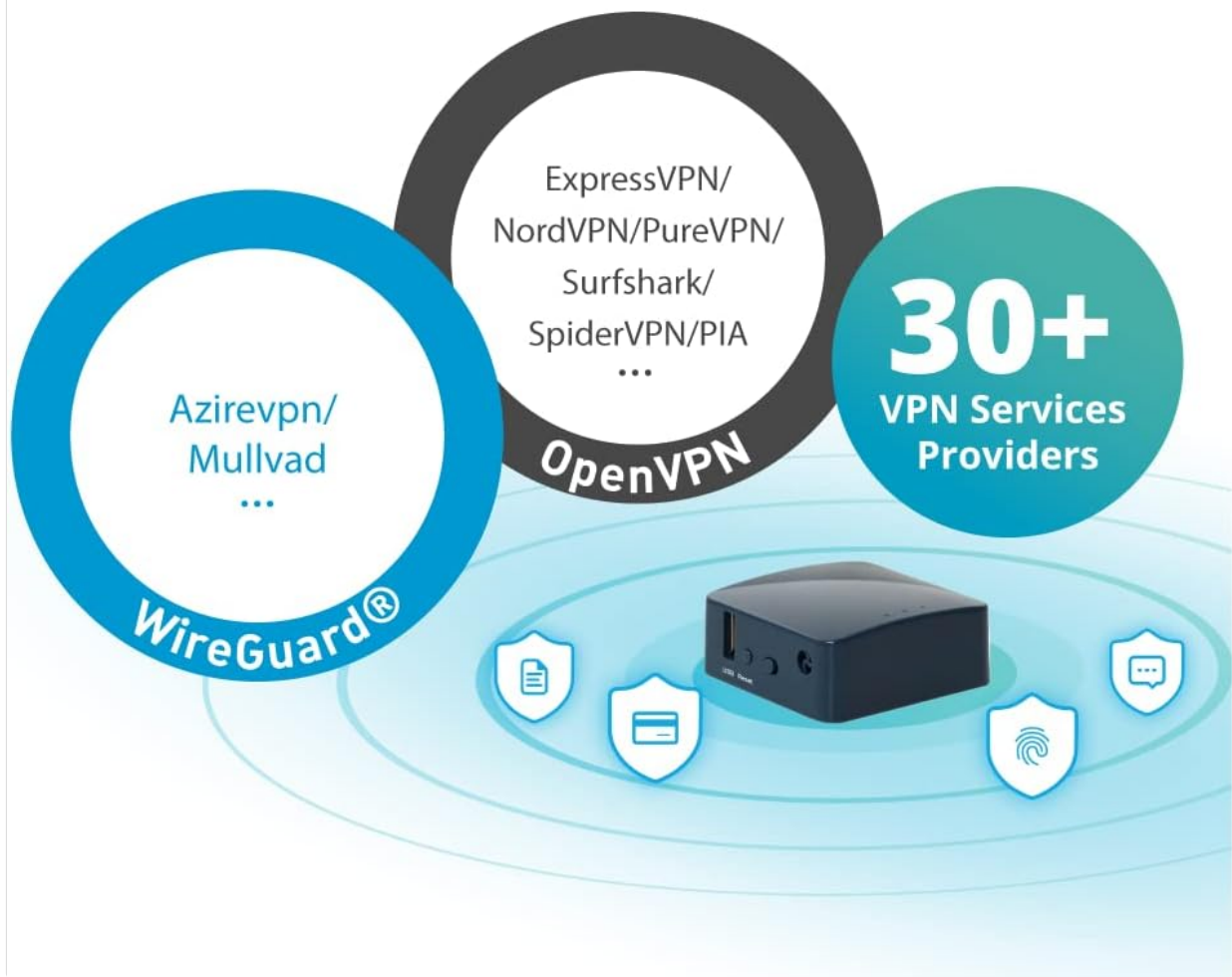


Figure 6: Advanced Security with VPN. This graphic highlights the router's support for WireGuard and OpenVPN, compatible with over 30 VPN service providers, ensuring network security.

5.2 Quality of Service (QoS)

Configure Quality of Service (QoS) settings to prioritize network traffic for specific applications or devices, ensuring faster internet speeds when needed most. This allows for managing upload and download speed limits.

QoS (Quality of service)

Get Faster Internet When You Really Need It

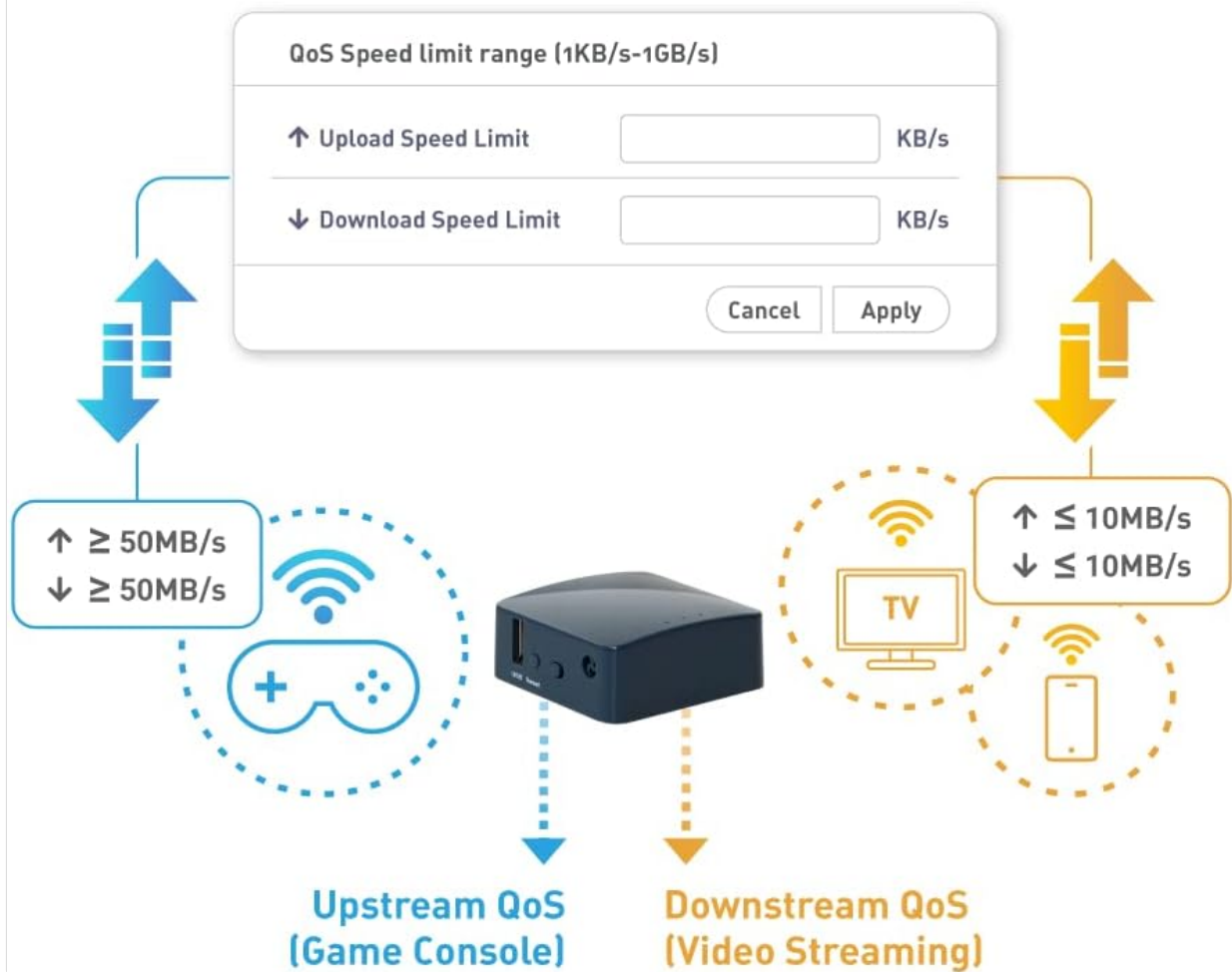


Figure 7: QoS (Quality of Service) Settings. This image illustrates how to set upload and download speed limits to prioritize network traffic, for example, for gaming (Upstream QoS) or video streaming (Downstream QoS).

6. MAINTENANCE

6.1 Firmware Updates

The GL-AR300M16 runs on OpenWrt, an open-source operating system. Regularly check for and install firmware updates via the admin panel to ensure optimal performance, security, and access to new features. Refer to the GL.iNet website for the latest firmware and update instructions.

6.2 Resetting the Router

To reset the router to its factory default settings, locate the 'Reset' button (refer to Figure 2). With the router powered on, press and hold the Reset button for approximately 5-10 seconds until the indicator lights change, then release. The router will restart with default settings.

7. TROUBLESHOOTING

7.1 Unable to Access Admin Panel

If you cannot access the admin panel at 192.168.8.1, ensure your device is connected to the router's Wi-Fi or

via an Ethernet cable. Try clearing your browser's cache or using an incognito/private browsing window. Verify your computer's IP settings to ensure it's receiving an IP address from the router (e.g., 192.168.8.x).

Video 4: How to Access Admin Panel. This video provides a step-by-step guide on how to log into the GL.iNet router's administration interface via a web browser, which can be helpful for troubleshooting access issues.

7.2 Connection Issues

If you experience intermittent or no internet connection, check the following:

- Ensure all cables (power, Ethernet) are securely connected.
- Restart your modem and the GL-AR300M16 router.
- Verify the internet source (e.g., hotel Wi-Fi, USB modem) is active and functioning independently.
- If using Repeater mode, ensure you have correctly entered the password for the upstream Wi-Fi network.
- If using Tethering, confirm your phone's personal hotspot is active and 'Allow Others to Join' is enabled.

8. SPECIFICATIONS

Product Dimensions	2.28 x 2.28 x 0.98 inches
Item Weight	1.44 ounces (approx. 40g)
Model Name	GL-AR300M16
Brand	GL.iNet
Special Feature	Access Point Mode, WPS
Frequency Band Class	Single-Band (2.4 GHz Radio Frequency)
Connectivity Technology	Ethernet, USB, Wi-Fi
RAM	128MB
NOR Flash	16MB
Ethernet Ports	Dual

9. WARRANTY AND SUPPORT

The GL.iNet GL-AR300M16 mini router includes a 2-year warranty. For technical support, troubleshooting assistance, or warranty claims, please visit the official GL.iNet website or contact their customer service directly. Contact information can typically be found on the product packaging or the official GL.iNet support page.



Figure 8: Product Packaging (Back). This image shows the back of the product box, detailing 'Easy Setup' steps and regulatory information. The UPC is 6971131382706.