GL.iNet GL-AR300M16-Ext

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

Model: GL-AR300M16-Ext

1. Introduction

The GL.iNet GL-AR300M16-Ext is a compact and versatile portable mini travel wireless pocket router designed for secure and flexible internet access. It comes with OpenWrt pre-installed, offering extensive customization options. This router supports various internet access methods including wired, wireless repeater, USB modem, and tethering. It also features pre-installed OpenVPN and WireGuard VPN client/server capabilities for enhanced security and privacy.



Front view of the GL.iNet GL-AR300M16-Ext router, showcasing its compact design and dual external antennas.

2. Setup

2.1. Initial Power-On and Connection

To begin, connect the GL-AR300M16-Ext router to a power source using the provided USB cable. The router can be powered by any laptop USB port, power bank, or a 5V/2A DC adapter (sold separately). Once powered on, the indicator lights on the router will illuminate.



Detailed diagram illustrating the router's compact dimensions (58x58x25mm) and labeling its components: External Antennas, Power port, Ethernet Ports (WAN, LAN), USB 2.0, Repair/Restore Button, Mode Switch, and indicator lights (Wireless, Configurable, Power).

2.2. Connecting to Wi-Fi and Admin Panel

Locate the SSID (Wi-Fi network name) and default password (Key) printed on the bottom label of your router. Connect your device (laptop, smartphone, tablet) to this Wi-Fi network. Once connected, open a web browser and navigate to the default IP address **192.168.8.1** to access the router's admin panel. You will be prompted to set a new password for the admin panel during the first setup.

2.3. Tethering Setup

The GL-AR300M16-Ext supports tethering, allowing you to share your phone's mobile data connection through the router. Follow these steps:

1. Connect your phone to the router via a USB cable.

2. On your phone, go to **Settings** > **Personal Hotspot** and enable "Allow Others to Join".
3. Go back to the router's admin panel (192.168.8.1) in your browser.
4. Under the **Tethering** section, click "Connect".

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This video provides a step-by-step guide on how to set up tethering using your GL.iNet router, including connecting power, finding the SSID, logging into the admin panel, connecting your phone via USB, enabling personal hotspot, and connecting the tethering device.



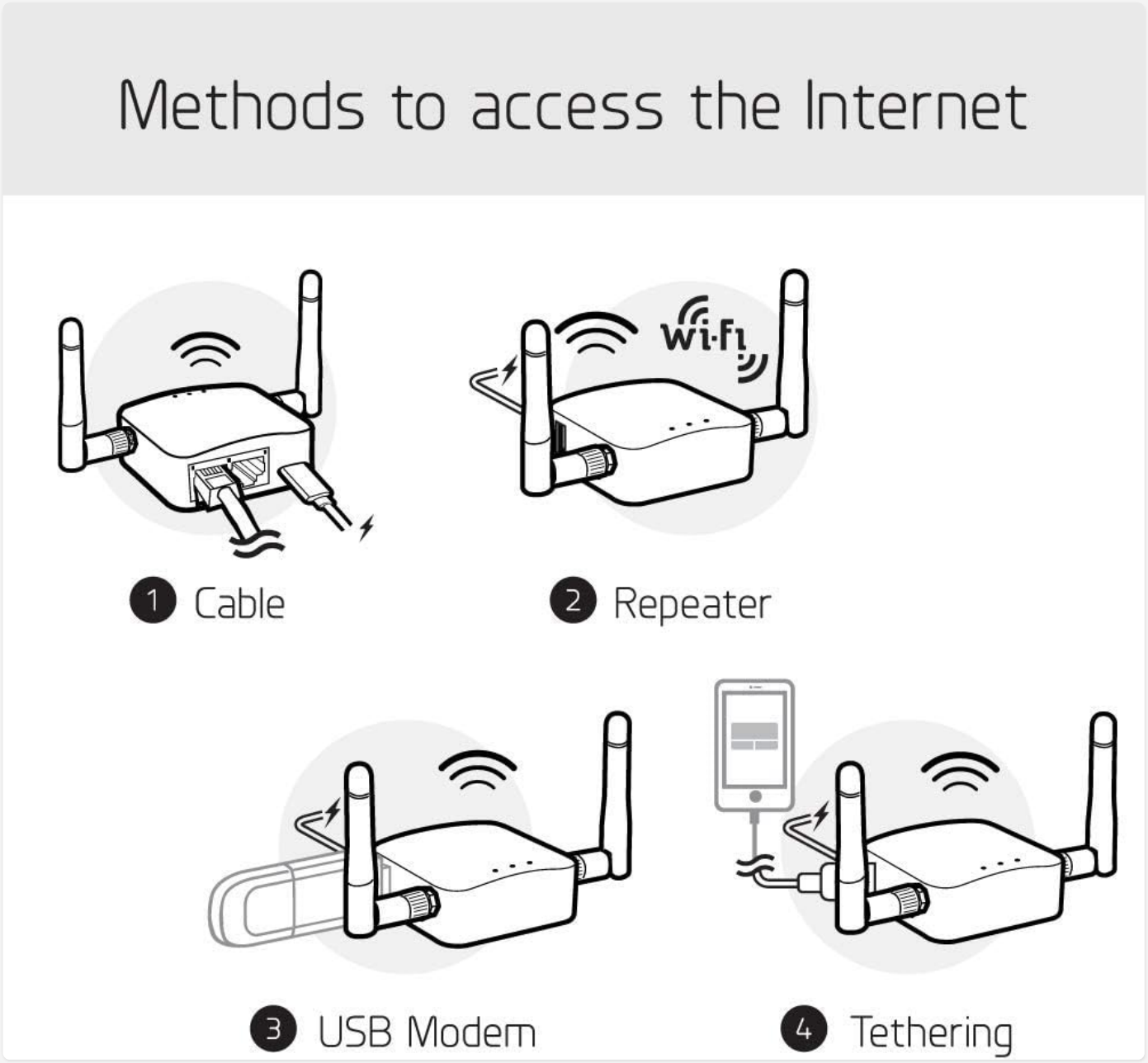
Image highlighting the USB port for tethering and 3G/4G USB modem compatibility, and the Micro USB port for power, indicating it can be powered by a laptop, power bank, or 5V/1A DC adapter.

3. Operating

3.1. Internet Access Methods

The GL-AR300M16-Ext router supports multiple ways to connect to the internet:

- **Cable:** Connect an Ethernet cable from your modem or main router to the WAN port of the GL-AR300M16-Ext.
- **Repeater:** Extend an existing Wi-Fi signal by connecting the router in repeater mode.
- **USB Modem:** Use a compatible 3G/4G USB modem for internet access.
- **Tethering:** Share your smartphone's internet connection via USB.



Visual guide demonstrating various internet access methods: 1) Cable connection, 2) Repeater mode for Wi-Fi extension, 3) USB Modem connection, and 4) Tethering via USB.

3.2. Router Modes

The GL-AR300M16-Ext can operate in several modes to suit your networking needs:

- **Router Mode:** Creates a new private network from a wired internet source.
- **Repeater Mode:** Extends the range of an existing Wi-Fi network.
- **Access Point (AP) Mode:** Converts a wired connection into a Wi-Fi hotspot.
- **Wi-Fi Hotspot Mode:** Shares a single internet connection with multiple devices.



Illustrations depicting the router's versatility, allowing it to function as a Router, Repeater, Access Point (AP), or Wi-Fi Hotspot to create an internet access anywhere.

3.3. Connecting to Public/Hotel Wi-Fi through Repeater

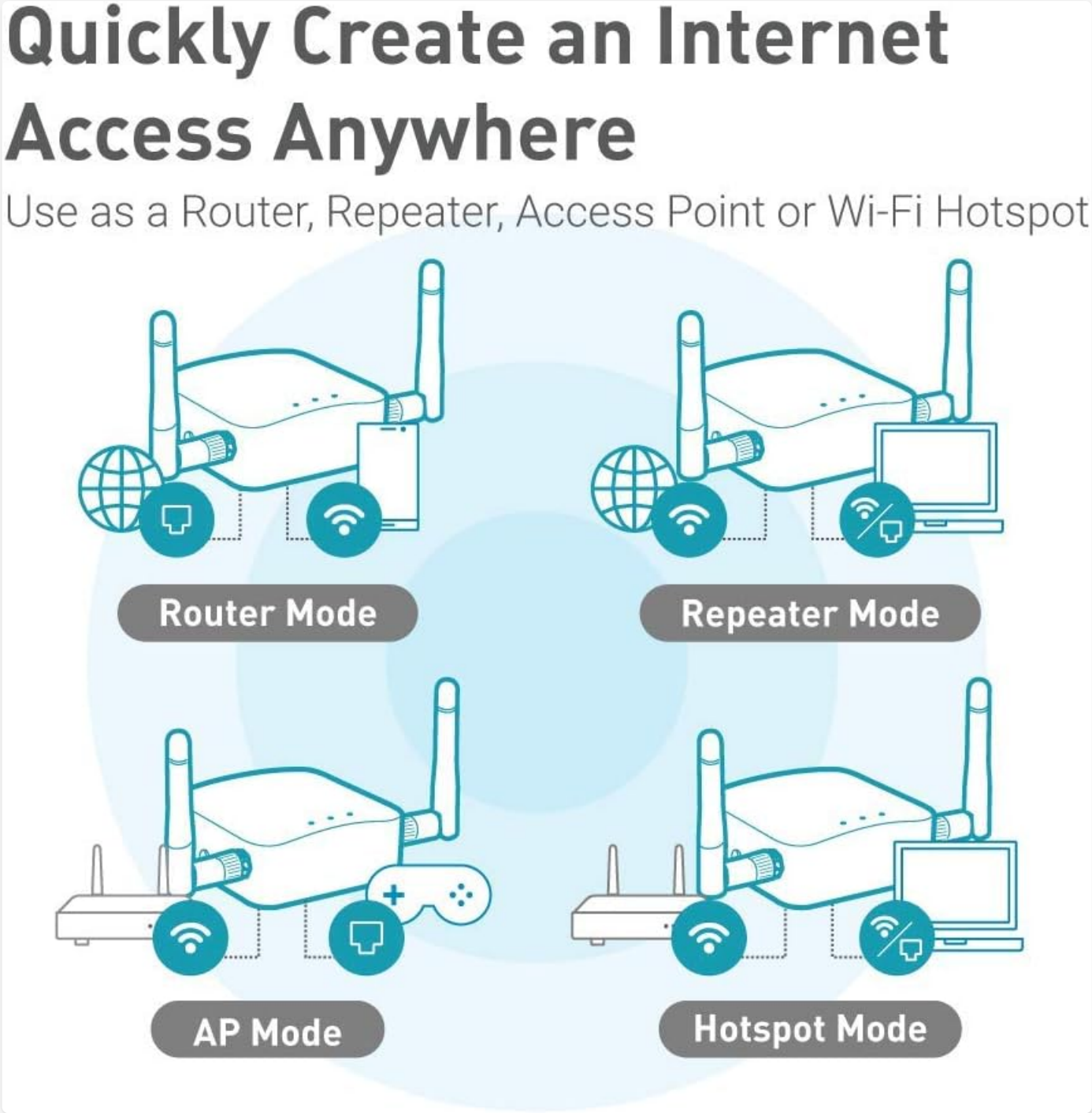
When connecting to public or hotel Wi-Fi networks that use a captive portal (web page for access), you may need to adjust settings. The router can connect to these networks in repeater mode.

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This video demonstrates how to connect your GL.iNet router to public or hotel Wi-Fi networks using repeater mode, including scanning for networks, joining, and handling captive portals by adjusting DNS settings.

3.4. VPN Client & Server

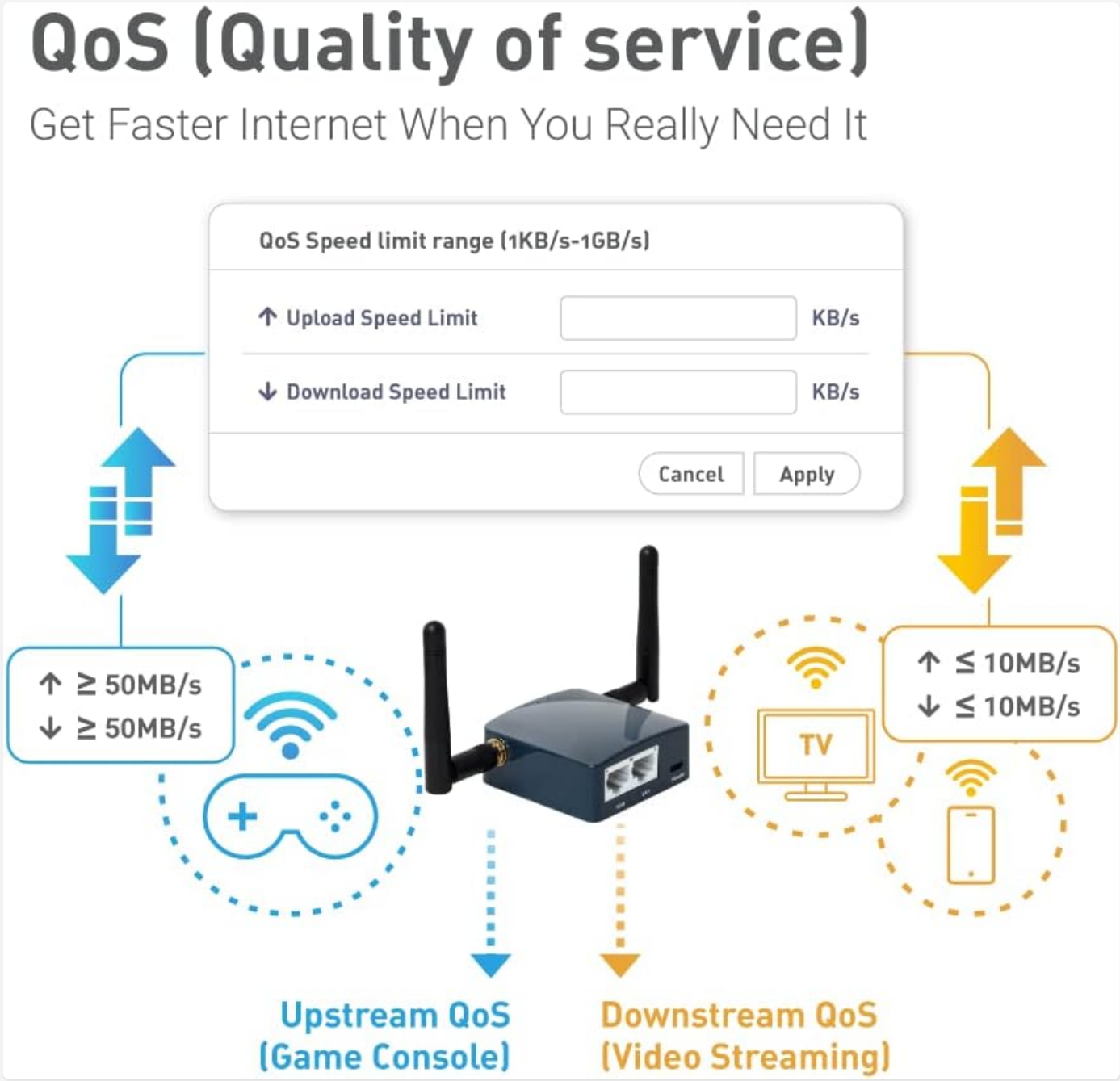
The GL-AR300M16-Ext comes with OpenVPN and WireGuard VPN client and server pre-installed. This allows you to encrypt your internet traffic and secure your connection, especially when using public Wi-Fi. It is compatible with over 30 VPN service providers.



Infographic showcasing the router's pre-installed OpenVPN and WireGuard VPN client/server capabilities, compatible with over 30 VPN service providers like ExpressVPN, NordVPN, PureVPN, Surfshark, SpiderVPN, PIA, Azirevpn, and Mullvad.

3.5. Quality of Service (QoS)

The router supports Quality of Service (QoS) features, enabling you to prioritize network traffic for specific applications or devices. This ensures a smoother experience for critical tasks like online gaming (Upstream QoS) or video streaming (Downstream QoS) by managing upload and download speed limits.



Visual representation of the Quality of Service (QoS) feature, allowing users to set upload and download speed limits (1KB/s-1GB/s) for different activities like Upstream QoS for gaming and Downstream QoS for video streaming.

4. Maintenance

4.1. Firmware Upgrade

To ensure optimal performance and access to the latest features, it is recommended to regularly upgrade your router's firmware. If you are currently using firmware 3.x, make sure to upgrade to v4.3.7 before proceeding to the newest version.

4.2. General Care

Keep the router in a well-ventilated area to prevent overheating. Avoid exposing it to extreme temperatures, moisture, or direct sunlight. Clean the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.

5. Troubleshooting

5.1. Unable to Access Admin Panel

If you are unable to access the router's web admin panel at 192.168.8.1, consider the following solutions:

- **Check Connections:** Ensure your device is correctly connected to the router via Wi-Fi or Ethernet.
- **Verify SSID:** Confirm you are connected to the correct Wi-Fi network (SSID) as printed on the router's label.
- **Restart Router/Modem:** Power cycle both your router and the modem (if applicable) by unplugging them for 30 seconds and then plugging them back in.
- **Check Router IP Address:** On your computer, verify the IPv4 Default Gateway in your network connection details. It should be 192.168.8.1.
- **Use Incognito/Private Mode:** Open your browser in incognito or private browsing mode (e.g., Ctrl+Shift+N in Chrome) to avoid cache-related issues.
- **Disable DNS Rebinding Attack Protection:** In the router's admin panel (if accessible), navigate to **MORE SETTINGS** > **Custom DNS Server** and temporarily switch off "DNS Rebinding Attack Protection". Remember to re-enable it after accessing the portal.

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This video explains how to troubleshoot issues when accessing the GL.iNet router's admin panel, covering checking WAN/LAN connections, verifying SSID, restarting the modem, checking router IP address, and using incognito mode in browsers.

5.2. Connection Issues (Tethering)

If you experience problems with tethering, try the following methods:

- **Try a Different USB Cable:** A faulty USB cable can prevent a stable connection.
- **Restart Your Phone:** A simple restart can resolve temporary software glitches.
- **Try a Different Phone:** Test with another phone to determine if the issue is device-specific.
- **Toggle Personal Hotspot:** Go to your phone's Personal Hotspot settings and turn it off, then turn it back on again.

6. Specifications

Feature	Detail
Product Dimensions	2.28 x 2.28 x 0.98 inches
Item Weight	1.44 ounces
Item Model Number	GL-AR300M16-Ext
Brand	GL.iNet
Model Name	Shadow
Special Feature	Access Point Mode, Internet Security, Remote Access
Frequency Band Class	Single-Band
Wireless Communication Standard	2.4 GHz Radio Frequency
Compatible Devices	Laptop
Frequency	2.4 GHz
Recommended Uses	Travel, Security, Business, Monitoring

Connectivity Technology	Wi-Fi, USB, Ethernet

7. Warranty

The GL.iNet GL-AR300M16-Ext mini router comes with a**2-year Warranty** from the manufacturer.

8. Support

For further assistance, technical support, or to access official documentation and resources, please visit the GL.iNet official website or their Amazon store.

- GL.iNet Official Website: www.gl-inet.com
- GL.iNet Amazon Store: Visit Store

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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