GL.iNet GL-RM1

GL.iNet Comet (GL-RM1) Remote KVM Over Internet Instruction Manual

Your comprehensive guide to setting up and operating the GL.iNet Comet (GL-RM1) Remote KVM device.

1. Introduction

The GL.iNet Comet (GL-RM1) is a remote KVM (Keyboard, Video, Mouse) device designed to provide seamless access and control over your computers from any location via the internet. This device is ideal for IT professionals, system administrators, and home users who require remote management capabilities, including BIOS-level access and operating system installation.

Key features include 4K@30Hz video resolution, low latency, remote audio output, instant file transfer, and integrated Tailscale support for secure connections. The Comet (GL-RM1) operates as a hardware-based solution, meaning no software installation is required on the controlled device.



Image 1.1: The GL.iNet Comet (GL-RM1) device showcasing its primary functions like plug-and-play installation, 4K remote display, instant file transfer, remote audio, low latency, and secure remote access.

2. Product Overview

2.1. What's in the Box

- GL-RM1 Unit

2.2. Device Ports and Indicators

The GL.iNet Comet (GL-RM1) features several ports for connectivity and a status indicator for operational feedback.



Image 2.1: A detailed view of the GL.iNet Comet (GL-RM1) device, highlighting its various input/output ports.

- **USB 2.0 Port:** For connecting a USB keyboard and mouse to the KVM.
- **HDMI IN Port:** Connects to the HDMI output of the computer you wish to control.
- **USB-Device (Type-C) Port:** Connects to a USB port on the computer you wish to control, providing keyboard and mouse emulation.
- **5V 2A Power (Type-C) Port:** For connecting the power adapter to the GL-RM1 unit.
- **Ethernet Port:** For network connectivity, enabling remote access over LAN or the internet.

3. Setup Instructions

3.1. Connecting the GL.iNet Comet (GL-RM1)

1. **Connect Video Input:** Use an HDMI cable to connect the HDMI output of your target computer (the device to be controlled) to the **HDMI IN** port on the GL.iNet Comet (GL-RM1).
2. **Connect USB Input:** Use a USB-C to USB-A cable (or appropriate adapter) to connect the**USB-Device (Type-C)** port on the GL.iNet Comet (GL-RM1) to a USB port on your target computer. This provides keyboard and mouse

control.

3. **Connect Network:** Connect an Ethernet cable from your network router or switch to the **Ethernet Port** on the GL.iNet Comet (GL-RM1).
4. **Connect Power:** Plug the provided 5V 2A power adapter into the **5V 2A Power (Type-C)** port on the GL.iNet Comet (GL-RM1) and then into a power outlet. The device will power on automatically.



Image 3.1: Visual guide for connecting the GL.iNet Comet (GL-RM1) to a computer and network.

3.2. Initial Access and Configuration

Once powered on and connected, the GL.iNet Comet (GL-RM1) can be accessed via a dedicated application (for Windows/Mac) or through a web browser. No software installation is required on the computer being controlled.

- **Local Network Access:** Discover the device's IP address on your local network and access its web interface via a browser.
- **Remote Access:** Utilize the GL.iNet app or configure Tailscale for secure remote access from outside your local network.

4. Operating Instructions

4.1. Remote KVM Control

Through the GL.iNet application or web interface, you gain full control over the connected computer, including keyboard, mouse, and video display. The device supports 4K@30Hz resolution with low latency, providing a desktop-like experience.



Image 4.1: The GL.iNet Comet (GL-RM1) supports up to 4K@30FPS resolution for clear remote display.

4.2. BIOS Access and OS Installation

The GL.iNet Comet (GL-RM1) allows you to access the target computer's BIOS interface remotely. This functionality is crucial for installing operating systems, configuring boot options, or performing low-level system diagnostics without physical presence.

4.3. Remote Power Control

To remotely power on, off, or reboot a computer, the GL.iNet Comet (GL-RM1) can be integrated with external accessories such as a Fingerbot or an ATX Power Control Board (GL-ATXPC). These accessories are sold separately.



Image 4.2: Examples of remote power control using a Fingerbot for external power buttons or an ATX Board for internal PC power management.
Note: Remote power control requires separate purchase of Fingerbot or ATX Board for use.

4.4. Instant File Transfer

The device facilitates direct file transfers between your controlling computer and the remote computer, streamlining workflows and eliminating the need for external storage or cloud services for simple data exchange.

4.5. Remote Audio Output

The GL.iNet Comet (GL-RM1) supports remote audio output, allowing you to hear audio from the controlled computer directly through your controlling device. This feature enhances the remote experience for tasks requiring sound feedback.

5. Maintenance

5.1. Firmware Updates

GL.iNet regularly releases firmware updates to improve performance, add features, and enhance security. It is

recommended to keep your GL.iNet Comet (GL-RM1) firmware up to date. Check the device's web interface or the official GL.iNet website for available updates and instructions on how to apply them.

5.2. Cleaning Instructions

To maintain optimal performance and longevity of your device, clean it periodically. Use a soft, dry cloth to wipe the exterior. Avoid using liquid cleaners or abrasive materials, as these can damage the device.

6. Troubleshooting

This section addresses common issues you might encounter with your GL.iNet Comet (GL-RM1).

6.1. No Video Display

- Ensure all HDMI cables are securely connected between the target computer and the GL-RM1.
- Verify the target computer is powered on and outputting video.
- Check the resolution settings on the target computer. While the GL-RM1 supports 4K@30Hz, ensure compatibility.

6.2. No Keyboard/Mouse Control

- Confirm the USB-Device (Type-C) cable is properly connected from the GL-RM1 to the target computer.
- Ensure the target computer's USB ports are functional.

6.3. Cannot Access Web Interface or Remote Connection Fails

- Verify the Ethernet cable is securely connected and the network is active.
- Check if the GL-RM1 has obtained an IP address on your network.
- If experiencing pairing difficulties, especially with Tailscale, you may need to adjust DNS settings. Refer to GL.iNet's online support resources or community forums for specific instructions.
- If using Firefox and encountering issues with video stream recovery after navigating back or reloading, consider using a Chromium-based browser (e.g., Chrome, Edge, Brave) as they tend to handle WebRTC video streams more consistently with this device.

6.4. Device Overheating

The GL.iNet Comet (GL-RM1) has an aluminum body that can get warm during operation, which is normal. Ensure the device is placed in a well-ventilated area and not covered to allow for proper heat dissipation.

7. Specifications

Feature	Detail
Product Dimensions	3.15 x 2.36 x 0.69 inches
Item Weight	3 ounces
Hardware Interface	Ethernet, HDMI, USB 2.0, USB Type C
Special Features	4K@30Hz Tailscale Support, H.264 Hardware Encoding, Gigabit Ethernet
Compatible Devices	Computers (PCs, laptops, servers), keyboards, mice, displays

Feature	Detail
Color	Grey
Model Number	GL-RM1

8. Warranty and Support

8.1. Warranty Information

For detailed warranty information regarding your GL.iNet Comet (GL-RM1) device, please refer to the warranty card included with your product or visit the official GL.iNet website. Warranty terms and conditions may vary by region.

8.2. Technical Support

Should you require technical assistance or have questions not covered in this manual, please contact GL.iNet customer support through their official website or the contact information provided with your purchase. Online resources, FAQs, and community forums are also available for additional support.
Visit the GL.iNet Store on Amazon for more product information and support resources.

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

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