

Datasheet (GL-RM10RC)

Comet 5G

5G RedCap KVM with Nearby Control



Comet 5G (GL-RM10RC) is a 5G RedCap-enabled remote KVM with integrated cellular connectivity, delivering full out-of-band device control even in locations without wired network access. This significantly enhances deployment flexibility for remote and distributed environment. To ensure a consistent network operation across varying network conditions, it supports 5G RedCap, Wi-Fi 6, and Ethernet failover.

A built-in touchscreen provides an intuitive interface for configuration and daily operation, simplifying device setup and remote management. When paired with extensions such as an ATX Board or a Fingerbot, Comet 5G gains physical access to the connected device's power controls, making it ideal for distributed management, field maintenance, and unattended deployment scenarios.

Highlights

Enhanced Wi-Fi 6 Connectivity with Multi-network Failover

Comet 5G supports Wi-Fi 6 (2.4GHz and 5GHz), providing high-speed, low-latency, and stable wireless connectivity for remote operation and data access. It enables flexible deployment without relying on wired networks, supporting seamless connectivity between the controlled system and the control equipment. With multi-network failover across cellular, Wi-Fi, and Ethernet connections, Comet 5G switches to the next available network if the active link is disabled, ensuring continuous remote KVM access and reliable operation even in challenging conditions.



Uninterrupted Connectivity via 5G RedCap

Comet 5G leverages advanced 5G RedCap technology to deliver fast, low-power cellular connectivity, reducing energy consumption while maintaining high data throughput. When 5G RedCap networks are unavailable, the module seamlessly falls back to global-band 4G LTE connectivity, ensuring broad compatibility across regions and carriers worldwide. This dual-mode capability makes Comet 5G ideal for remote deployment, freeing installations from reliance on fixed on-site networks.

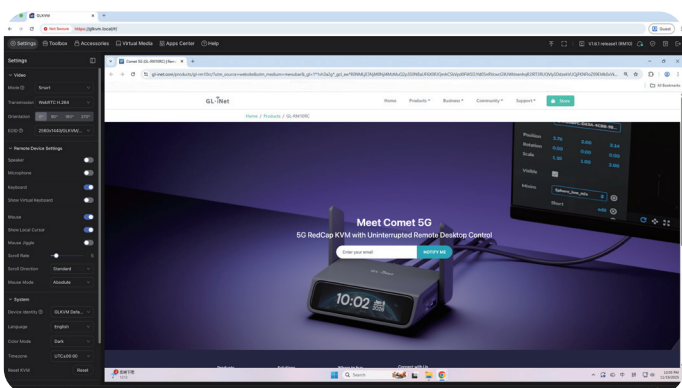


Self-Hosted Server and Deployment

Comet 5G enables flexible self-hosted deployment on mainstream operating systems, including Linux and Ubuntu, giving users full control over remote access and data privacy. The self-hosted system requires a cloud server with at least a dual-core CPU and 2GB of memory. With GL.iNet not collecting any personal information, this feature ensures both privacy and reliable operation.

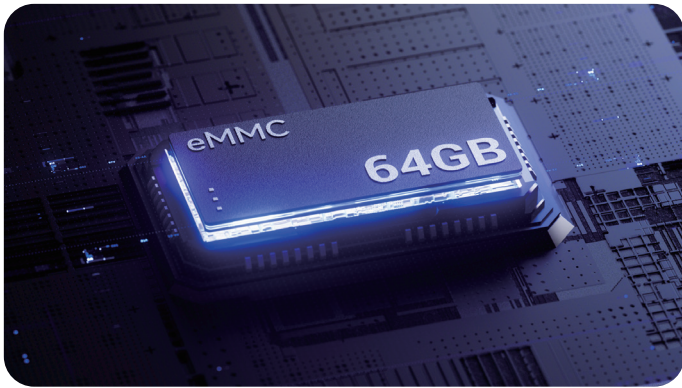
Sleek Design & Touchscreen Interface

Comet 5G features a dark gray body with smooth contours, rounded corners, and a textured matte finish that offers both durability and a premium feel. The 3.69-inch TFT touchscreen provides an intuitive interface for quick access to device functions, ensuring a seamless user experience.



Browser-Based Remote Control

Comet 5G allows users to access the KVM interface directly through a web browser, eliminating the need for client installation. This browser-based access uses secure HTTPS encryption with no self-signed certificate warnings, ensuring safe and effortless connectivity without software installation.



64GB eMMC for Large Capacity & High-Speed Transfer

Comet 5G features onboard 64GB eMMC storage, offering ample storage space for greater convenience. Users can pre-store more system images, large backup files, or deployment packages, eliminating the need for frequent deletion and re-uploading. It also supports high-speed data transfer rates of up to 25 MB/s, allowing a 6GB OS image to be uploaded in approximately five minutes.*

**Results are based on internal lab tests. Real-world speeds may vary depending on network configuration.*

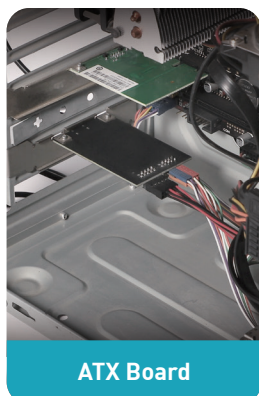
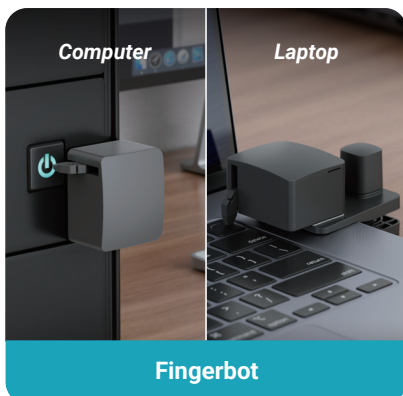
Local Access via AP Mode

Comet 5G features a "Nearby Control" function for quick local configuration and secure, wireless KVM access. By toggling AP mode within the Wi-Fi settings, the device broadcasts a dedicated local Service Set Identifier (SSID). This allows administrators to connect directly to the hardware for critical maintenance tasks such as system diagnostics, even in environments without network connectivity.

Note: Enabling the AP mode switches the Wi-Fi connection from "Station" to "Access Point". While active, the device will temporarily disconnect from its upstream Wi-Fi network. This local SSID functions strictly as a dedicated management bridge for device access and does not provide internet passthrough or routing capabilities for connected devices.

4K Display & Two-Way Audio

Comet 5G supports video output up to 4K@30FPS with HDMI out passthrough, allowing simultaneous local display and remote access without an external splitter. It also features two-way audio, enabling clear communication for video conferencing or remote technical instruction.



Accessory Integration for Remote Power Management

Comet 5G features a USB interface for connecting external devices such as an ATX board and a Fingerbot, enabling remote power control of the connected device.

**Optional accessories sold separately.*

Specifications

HARDWARE

CPU	Quad-core ARM Cortex-A53
Memory / Storage	DDR3L 1GB / 64GB eMMC
Cellular	Qualcomm X35 5G RedCap modem
Wi-Fi	802.11 b/g/n/ax, 1x1 286Mbps (2.4GHz) 802.11 a/n/ac/ax, 1x1 286Mbps (5GHz)
Internal Antenna	1 x Cellular Antenna
External Antenna	1 x Cellular Antenna, 1x 2.4GHz & 5GHz Antenna
Ethernet Speed	10/100/1000Mbps
Power Consumption	<8W
Dimension / Weight	128 x 93 x 33mm / 285g

SOFTWARE FEATURES

Operating System	Linux-6.1
Ethernet Dialing Mode	DHCP, Static IP
Repeater Mode	Scans and connects to SSID

System Function	<ul style="list-style-type: none"> Remote KVM Control Virtual Keyboard Clipboard Hotkeys Image Quality Adjustment Screen Rotation File Transfer Power Control Failover 2FA Tailscale Wi-Fi AP
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INTERFACE	
Ethernet Port	1 x 1Gbps
USB Port	1 x USB 2.0 Type-A (Host port for external devices, max. output: 0.5A) 1 x USB 2.0 Type-C (Device port for connection to host)
TFT LCD Touchscreen	3.69 inches
HDMI Port	1 x HDMI IN, 1 x HDMI OUT
SIM Card Slot	1 x Nano SIM Slot (12.3mm x 8.8mm, eSIM feature supported for MOQ orders)
Reset Button	1 x Reset Button (Long press ≥8s to restore factory settings)
Power Port	1 x USB Type-C (5V/3A, PD-compatible)

DATA RATES (MAX.)

5G SA Sub-6 GHz	223 Mbps (DL) / 123 Mbps (UL)
LTE	195 Mbps (DL) / 105 Mbps (UL)

FREQUENCY BANDS

5G NR	3GPP Release 17 RedCap, SA operation (Sub-6 GHz) n1 / n2 / n3 / n5 / n7 / n8 / n12 / n13 / n14 / n18 / n20 / n25 / n26 / n28 / n30 / n38 / n40 / n41 / n48 / n66 / n70 / n77 / n78 / n79
LTE-FDD	B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B13 / B14 / B17 / B18 / B19 / B20 / B25 / B26 / B28 / B30 / B66 / B70
LTE-TDD	B34 / B38 / B39 / B40 / B41 / B42 / B43 / B48

CERTIFICATION

- CE
- FCC
- IC
- RCM
- REACH
- RoHS
- HDMI
- ERP
- DOE&Nrcan
- WEEE
- California Proposition 65

ENVIRONMENT

Operating Temperature	0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	5% ~ 95%, non-condensing
Storage Humidity	5% ~ 95%, non-condensing

PACKAGE CONTENTS

- 1 x Comet 5G (GL-RM10RC)
- 1 x Power Adapter (5V/3A)
- 1 x USB Cable (Type-A to Type-C)
 - 1 x HDMI Cable
 - 1 x Ethernet Cable
 - 1 x User Manual
 - 1 x Warranty Card



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