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› UGREEN USB to Ethernet Adapter 2.5Gb User Manual

UGREEN 25051

UGREEN USB to Ethernet Adapter 2.5Gb User Manual

Model: 25051

1. PRODUCT OVERVIEW

The UGREEN USB to Ethernet Adapter 2.5Gb is designed to provide high-speed wired network connectivity to devices lacking an Ethernet port or requiring an upgrade from 1Gbps to 2.5Gbps. This aluminum-cased dongle connects via USB 3.0 to your computer, offering a stable and fast internet connection for various applications, including large file transfers, streaming, and online gaming.



Figure 1.1: UGREEN USB to Ethernet Adapter 2.5Gb. This image shows the compact, grey aluminum adapter with a short USB-A cable and an RJ45 Ethernet port, highlighting its sleek design.

Key features include support for up to 2.5Gbps internet speed, an updated RTL8156BG chip for stable performance and low power consumption, and a durable aluminum alloy casing with a reinforced design. It is widely compatible with various operating systems and devices.

2. PRODUCT FEATURES

- **2.5Gbps High-Speed Connectivity:** Supports network speeds up to 2.5 Gigabits per second, enabling faster downloads, smoother streaming, and improved gaming experiences.
- **Advanced RTL8156BG Chip:** Equipped with a Realtek RTL8156BG chip, ensuring stable network performance, low power consumption, and efficient heat dissipation.
- **Seamless 1Gb to 2.5Gb Upgrade:** Allows immediate upgrade of existing 1Gb networks to 2.5Gb when paired with compatible routers, switches, or servers.

- **Durable Aluminum Design:** Features a high-quality aluminum alloy casing that is resistant to wear and tear, providing enhanced durability.
- **LED Indicator:** Integrated LED lights provide visual feedback on the transmission status, indicating signal and connection activity.
- **Wide Compatibility:** Functions as a robust communication bridge for laptops, desktops, and Ethernet networks, compatible with Windows, macOS, Linux, and ChromeOS.

Faster, Smoother, Lower Power

Top-Notch Chip RTL8156BG

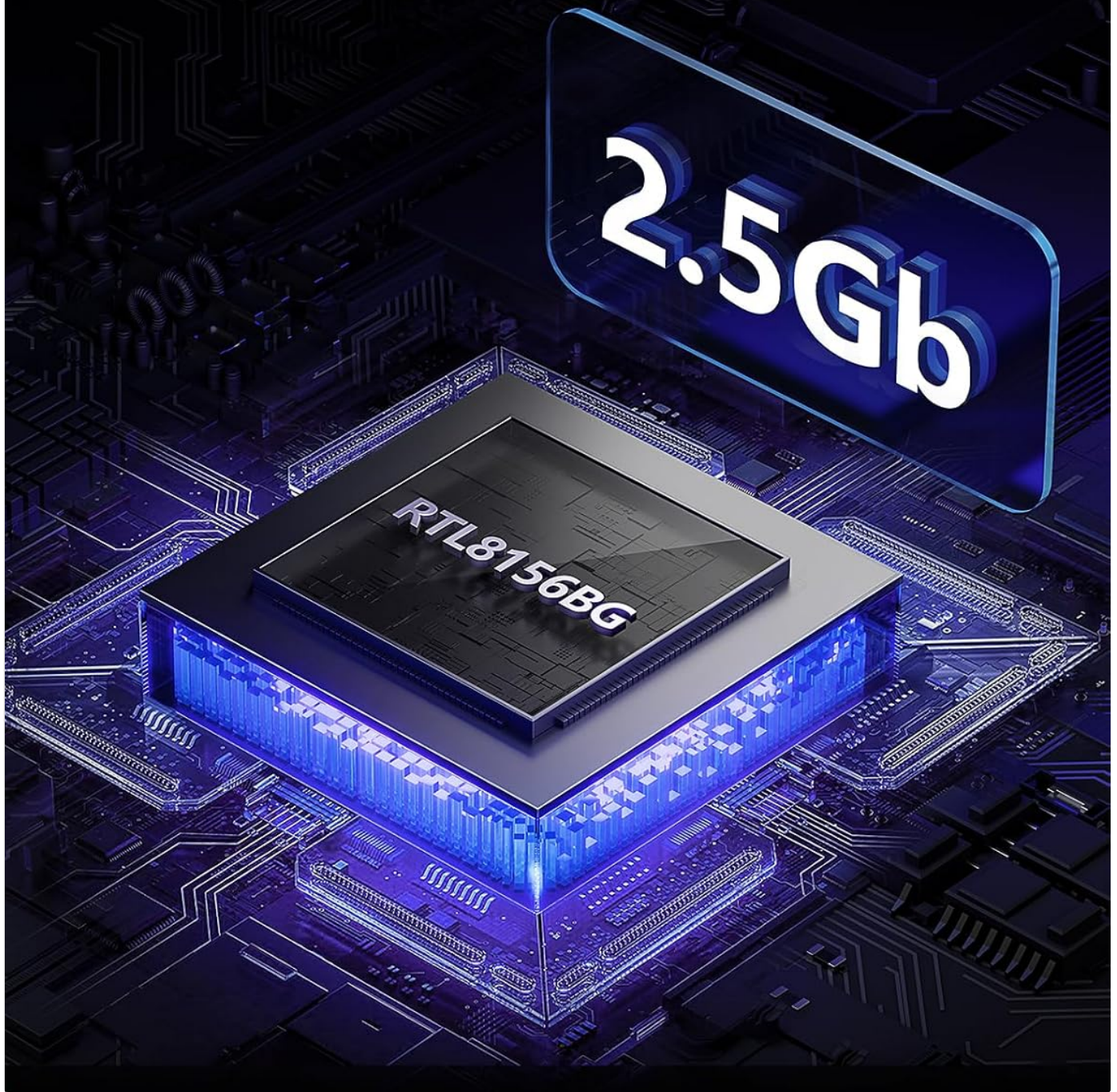


Figure 2.1: Internal view of the UGREEN adapter highlighting the RTL8156BG chip. This image illustrates the advanced chip responsible for the adapter's fast and stable performance.

Down to the Last Detail



Figure 2.2: Close-up of the UGREEN adapter showing the LED indicator and reinforced design. This image details the small LED lights that indicate network activity and the robust construction of the adapter's ports.

3. SETUP GUIDE

3.1 System Requirements

- Operating System: Windows (10/8.1/8/7/XP), macOS (10.6 and above), Linux, ChromeOS.
- Available USB 3.0 Type-A port.
- Ethernet cable (Cat5e or Cat6 recommended for 2.5Gbps speeds).
- 2.5Gbps capable router, Ethernet switch, or server for optimal performance.

Universal Compatibility for USB-A

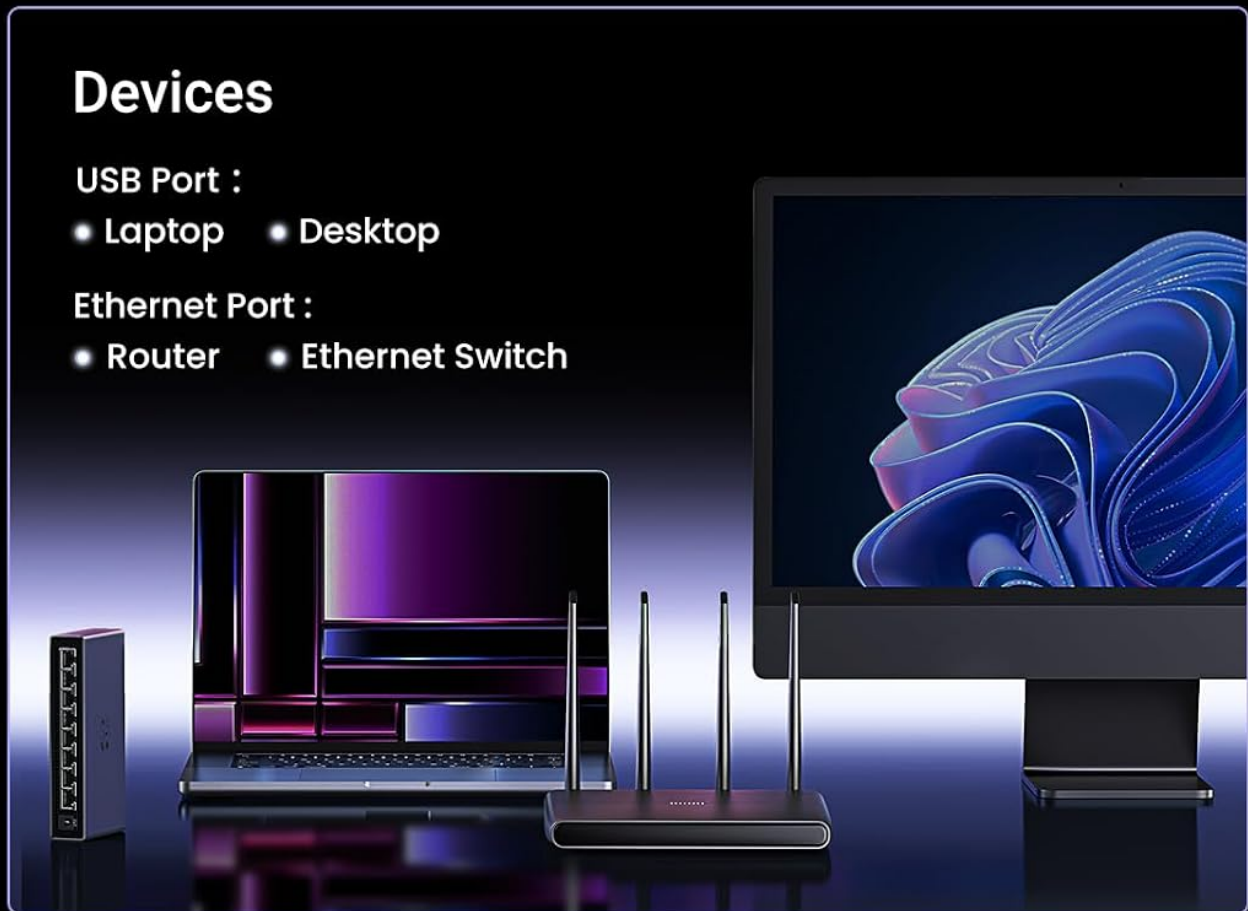
Devices

USB Port :

- Laptop
- Desktop

Ethernet Port :

- Router
- Ethernet Switch



Systems



Windows



mac OS

Figure 3.1: Diagram illustrating the universal compatibility of the UGREEN adapter with various devices and operating systems. This image shows the adapter connecting to laptops and desktops, compatible with Windows and macOS.

3.2 Installation Steps

1. **Connect the Adapter:** Insert the USB-A connector of the UGREEN adapter into an available USB 3.0 port on your

laptop or desktop computer.

2. **Connect Ethernet Cable:** Plug one end of an Ethernet cable (RJ45) into the Ethernet port of the UGREEN adapter and the other end into your router, modem, or network switch.
3. **Driver Installation (if necessary):**
 - For most modern operating systems (Windows 10/11, macOS, Linux, ChromeOS), the adapter is plug-and-play and drivers will install automatically.
 - If automatic installation does not occur, or for older operating systems, you may need to manually install drivers. Drivers can typically be found on the UGREEN official website or the Realtek website (search for RTL8156BG drivers).
4. **Verify Connection:** Once connected, the LED indicators on the adapter should light up, indicating a successful network connection. Check your computer's network settings to confirm the active Ethernet connection.

Immediately Upgrade 1Gb to 2.5Gb

Please ensure your router, ethernet switch,
or server support 2.5Gb ethernet.



Figure 3.2: The UGREEN adapter connected to a laptop, illustrating the upgrade from 1Gbps to 2.5Gbps. This image shows the adapter plugged into a laptop's USB port, with a visual representation of data flow at 2.5Gbps.

4. OPERATING INSTRUCTIONS

The UGREEN USB to Ethernet Adapter operates automatically once connected and drivers are installed. It provides a

stable wired network connection, bypassing Wi-Fi limitations and offering higher speeds.

4.1 Network Speed Optimization

- To achieve the full 2.5Gbps speed, ensure your network infrastructure (router, switch, Ethernet cables) also supports 2.5Gbps or higher. Using Cat5e or Cat6 Ethernet cables is recommended.
- Verify your internet service provider (ISP) plan supports speeds of 2.5Gbps or higher if you intend to utilize the adapter for internet access at these speeds.

Experience the Sheer Speed with NAS



Figure 4.1: User experiencing high-speed data transfer with the UGREEN adapter connected to a NAS (Network Attached Storage) device. This image demonstrates the adapter's capability for fast local network operations.

4.2 LED Indicator Status

- **Green LED:** Indicates a stable network connection.

- **Yellow/Orange LED (blinking):** Indicates data transmission activity.

5. MAINTENANCE

The UGREEN USB to Ethernet Adapter is designed for durability with its aluminum casing. Minimal maintenance is required.

- Keep the adapter clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the adapter to extreme temperatures or humidity.
- Do not attempt to disassemble the adapter, as this will void any warranty and may damage the device.
- Handle the USB and Ethernet connectors with care to prevent bending or damage to the pins.

Cool, Seamless Execution



Figure 5.1: Exploded view of the UGREEN adapter showing its internal components and aluminum alloy case designed for good heat dissipation. This image highlights the robust internal structure and cooling features.

6. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
No network connection / Adapter not recognized.	Loose connection. Missing or outdated drivers. Faulty USB port. Incompatible USB port (e.g., some USB 3 Gen 2 ports may have issues).	Ensure the USB and Ethernet cables are securely plugged in. Check Device Manager (Windows) or System Information (macOS) to see if the adapter is recognized. Install or update drivers from the UGREEN or Realtek website. Try a different USB port on your computer. If using a USB 3 Gen 2 port, try a USB 3 Gen 1 port if available. Restart your computer.
Slow network speed.	Network infrastructure (router, switch, cables) not 2.5Gbps capable. ISP speed limitations. Interference or network congestion.	Ensure all components in your network path (router, switch, cables) support 2.5Gbps. Use Cat5e or Cat6 cables. Verify your internet plan with your ISP. Test the adapter on a different network or with a direct connection to a 2.5Gbps capable device to isolate the issue.
LED indicators not lighting up.	No power to the adapter. No active network link.	Ensure the adapter is fully inserted into a working USB port. Check the Ethernet cable connection to both the adapter and the network device (router/switch). Verify the network device is powered on and functioning correctly.

7. SPECIFICATIONS

UGREEN USB to Ethernet Adapter 2.5Gb - Model 25051

Feature	Detail
Brand	UGREEN
Model Number	25051
Hardware Interface	USB 3.0 Type A, Ethernet (RJ45)
Data Transfer Rate	Up to 2.5 Gigabits Per Second
Data Link Protocol	IEEE 802.3
Compatible Operating Systems	Windows, macOS, Linux, ChromeOS
Compatible Devices	Laptops, Desktops
Chipset	Realtek RTL8156BG
Color	Grey
Product Dimensions	2.44 x 1.02 x 0.63 inches (6.2 x 2.6 x 1.6 cm)

Feature	Detail
Item Weight	2.12 ounces (60 grams)
Country of Origin	China

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Specific warranty details for the UGREEN USB to Ethernet Adapter 2.5Gb are typically provided with the product packaging or can be found on the official UGREEN website. Please refer to these sources for the most accurate and up-to-date warranty terms and conditions.

8.2 Customer Support

For technical assistance, troubleshooting, or product inquiries, please visit the official UGREEN support website. You can typically find FAQs, driver downloads, and contact information for customer service there.

Note: Always refer to the manufacturer's official resources for the latest information and support.

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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

Answered questions about this manual

Can the UGREEN 25051 USB to Ethernet Adapter be used with a PS5? I connected it to a USB 3.0 port because my LAN port is malfunctioning, but it was not recognized.

Based on the official manual for the UGREEN 25051 (USB to Ethernet Adapter 2.5Gb), the device is officially supported for Windows, macOS, Linux, and ChromeOS. It is primarily designed for laptops and desktops. Regarding your...

[Read full answer](#)