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› WAVLINK USB to 2.5G Ethernet Adapter, 2-in-1 USB C/USB 3.0 Ethernet Adapter for Laptop Compatible with Thunderbolt 3/4, Ethernet to USB Adapter for MacBook Pro/Air, iPad Pro, Dell XPS, Surface Lapt

WAVLINK NWU330GCA

WAVLINK USB to 2.5G Ethernet Adapter

USER MANUAL

1. Product Overview

The WAVLINK USB to 2.5G Ethernet Adapter provides a high-speed wired network connection for your compatible devices. Featuring a versatile 2-in-1 design with both USB-C and USB 3.0 connectors, this adapter offers enhanced network performance up to 2500Mbps, significantly faster than traditional Gigabit Ethernet. Its robust aluminum construction and integrated ventilation ensure stable and reliable operation.



Image 1.1: The WAVLINK USB to 2.5G Ethernet Adapter, showcasing its compact design and dual connectivity options.

2. Key Features

- **2.5G SuperFast Ethernet Performance:** Supports network speeds up to 2500Mbps (2.5Gbps), offering double the performance of traditional Gigabit Ethernet adapters. It is also downward compatible with 10/100/1000Mbps networks.
- **One Adapter Two Use:** Features a hybrid 2-in-1 cable that converts from USB-C to USB-A, ensuring compatibility with most computers, laptops, and tablets equipped with either Type-C or USB 3.0 ports. (Note: Not for smartphones.)
- **Stylish USB Internet Converter:** Constructed with a premium anti-fingerprint aluminum shell and built-in ventilation holes to prevent overheating and prolong device lifespan. Lightweight and portable for home or office use.
- **Network Speed Indicators:** Equipped with two LED indicators for easy network speed verification. A flashing green LED indicates auto-recognition and transfer at 2.5 Gigabit speeds, while a blinking amber LED signifies auto-recognition and transfer at 10/100/1000Mbps speeds.

Home Office Stable Connection

Enjoy more stable and faster wired internet connection



Image 2.1: Detailed view of the adapter's components, including the USB 3.0 converter, USB-C connector, 2.5GbE port, and the green and amber activity LEDs.



Image 2.2: Features of the adapter's design, including its premium aluminum alloy for better heat conduction, ventilation holes for preventing overheating, and its compact, portable form factor.

3. Compatibility

The WAVLINK USB to 2.5G Ethernet Adapter is designed for broad compatibility with various operating systems and devices:

- **Operating Systems:**
 - Windows 11, 10, 8.x, and 7
 - macOS 10.7 and above (older versions may require a driver download and could have limited functionality)
 - Linux kernel 3.2 and above (basic support; driver installation or update to 5.x kernel may be required for full support)
 - Up-to-date Chrome OS systems
 - iPadOS

- **System Requirements:**

- USB-C (5Gbps), USB 3.0, and Thunderbolt 3 Systems are recommended for full performance.
- USB 2.0 ports will only support speeds up to 480Mbps.

- **Incompatible Devices:**

- ARM-based Windows RT and Windows Mobile
- Most Android devices and smartphones
- Not recommended for use with FreeBSD or pfSense.

Devices



Computer



Laptop



Tablet

Systems



Mac OS



Windows



Chrome OS



Linux



*** Not For Smartphones**

Universal Compatibility



Image 3.1: Visual representation of the adapter's universal compatibility with various devices like computers, laptops, and tablets, and operating systems including Mac OS, Windows, Chrome OS, and Linux.

4. Setup Instructions

Follow these steps to set up your WAVLINK USB to 2.5G Ethernet Adapter:

1. **Prepare Your Network:** Ensure your broadband supports 2.5G or above for optimal performance. For 2.5G speeds, a direct connection to a 2.5G-compatible modem is ideal.
2. **Select the Right Cable:** Use a Cat 6a or Cat 7 network cable for 2.5G speeds. Cat5e, Cat6, or Cat6e cables only support up to 1000Mbps.
3. **Connect the Ethernet Cable:** Insert one end of your Ethernet cable into the RJ45 port of the WAVLINK adapter.
4. **Connect to Your Device:** Plug the USB-C or USB 3.0 connector of the adapter into an available port on your computer, laptop, or tablet. For full performance, connect to a USB 3.0 or higher port (preferably USB 3.1 Gen 2).
5. **Driver Installation (if needed):** For most modern operating systems (Windows 10/11, up-to-date macOS, Chrome OS, and Linux kernel 5.x+), the adapter is plug-and-play and drivers will install automatically. For older OS versions or specific kernel versions, a driver download and installation may be required. Drivers can be found at wavlink.com/driver.

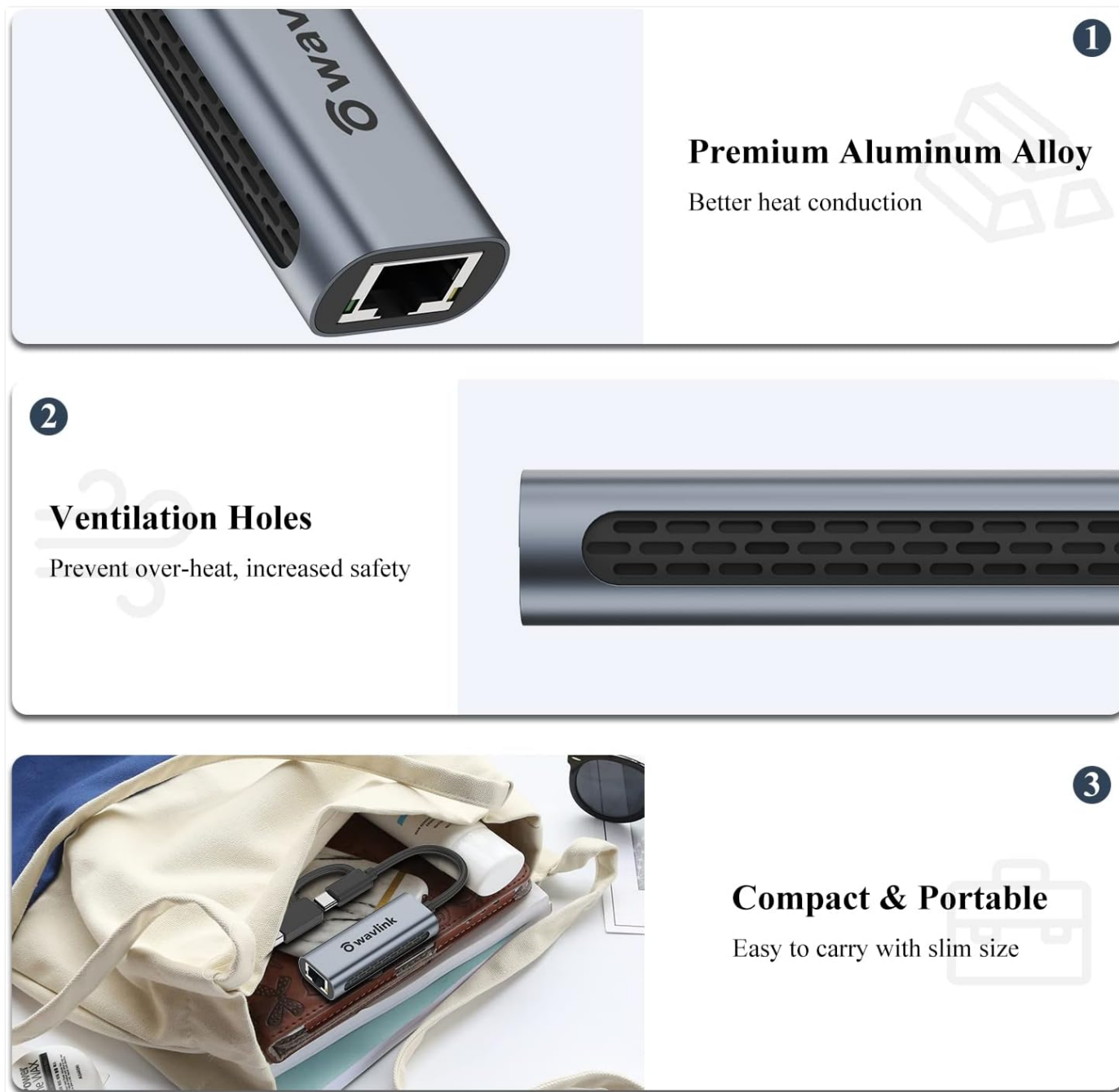


Image 4.1: The adapter's versatility, showing how it can be used with both USB-C and USB-A ports on different devices to establish a wired network connection.

Your browser does not support the video tag.

Video 4.1: An introduction to the product's functions, demonstrating its plug-and-play capability and how it provides a stable, high-speed

wired connection for activities like gaming and streaming.

5. Operating the Adapter

Once connected, the adapter operates automatically. The integrated LED indicators provide visual feedback on the network status:

- **Flashing Green LED:** Indicates that the adapter is auto-recognizing and transferring data at 2.5 Gigabit speeds.
- **Blinking Amber LED:** Indicates that the adapter is auto-recognizing and transferring data at 10/100/1000Mbps speeds.



Image 5.1: The WAVLINK adapter in use, providing a stable wired connection for a laptop in a home office environment.

6. Maintenance

To ensure the longevity and optimal performance of your WAVLINK USB to 2.5G Ethernet Adapter, consider the following maintenance tips:

- **Keep Ventilated:** The adapter features built-in ventilation holes. Ensure these are not obstructed to allow for proper heat dissipation and maintain a cool operating environment.
- **Handle with Care:** Avoid dropping or subjecting the adapter to strong impacts, which could damage internal

components.

- **Clean Gently:** If necessary, wipe the exterior of the adapter with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Store Properly:** When not in use, store the adapter in a cool, dry place away from direct sunlight and extreme temperatures.

7. Troubleshooting

If you encounter issues with your WAVLINK USB to 2.5G Ethernet Adapter, refer to the following common troubleshooting steps:

- **No Network Connection:**

- Ensure the adapter is securely plugged into both your device's USB port and the Ethernet cable.
- Verify that your network cable is properly connected to your router or modem and that the network is active.
- Check the LED indicators on the adapter. If they are off, try a different USB port or device.

- **Slow Network Speed:**

- Confirm you are using a USB 3.0 or higher port on your device. USB 2.0 ports will limit speeds.
- Ensure your network cable is Cat 6a or Cat 7 for 2.5G speeds. Older cables (Cat5e/Cat6) will limit speed to 1000Mbps.
- Verify that your modem, router, and switch (if applicable) support 2.5G Ethernet. Many only support up to 1000Mbps.
- Check your computer's network settings and ensure no restrictions are applied by your modem or router.

- **Driver Issues:**

- If the adapter is not recognized or not functioning correctly, especially on older operating systems, you may need to manually install the driver. Visit wavlink.com/driver to download the latest Realtek RTL8156B driver.
- For Linux users, updating to a 5.x kernel or installing the specific driver may be necessary for full support.

- **Overheating:**

- Ensure the ventilation holes on the adapter are clear and not blocked by other objects or surfaces.
- Operate the adapter in a well-ventilated area.



Image 7.1: Essential requirements for achieving 2.5G high-speed network performance, detailing broadband, modem, network cable (Cat 6a/7), and USB port specifications.

8. Specifications

Model Number	NWU330GCA
Item Weight	2.08 ounces
Package Dimensions	6.14 x 3.27 x 0.75 inches
Manufacturer	WAVLINK
Date First Available	July 28, 2023

9. Warranty and Support

WAVLINK provides a 5-year worry-free warranty for this product, along with life-long friendly customer service and technical support.

For technical assistance or customer service, please contact:

- **Phone:** +1 8889730883 (UTC-5) Mon - Fri 9AM - 6PM
- **Email:** Contact@wavlink.com

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