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› Deal4GO RT3070L 150Mbps Wireless USB WiFi Adapter User Manual

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Model: RT3070L

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Deal4GO RT3070L 150Mbps Wireless USB WiFi Adapter. This device is designed to provide wireless network connectivity to your computer, supporting IEEE 802.11 b/g/n standards with data rates up to 150Mbps on the 2.4GHz frequency band. Please read this manual thoroughly before using the product to ensure proper setup and functionality.



Figure 1.1: Deal4GO RT3070L Wireless USB WiFi Adapter and its components.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x RT3070L WLAN Adapter

- 1x 5dBi Antenna
- 1x 1-meter Mini USB Cable





Figure 2.1: Contents of the Deal4GO RT3070L package, including the main adapter unit, detachable antenna, and a mini USB cable for connection.

3. FEATURES

- **Wireless Standard:** IEEE 802.11 b/g/n
- **Data Rate:** Up to 150Mbps (2.4GHz)
- **Chipset:** Ralink RT3070
- **Antenna:** Detachable 5dBi antenna for enhanced signal reception
- **Interface:** Micro USB 2.0/1.1, Type A
- **LED Indicator:** Blue LED for status indication
- **Power Amplifier:** Built-in internal power amplifier
- **Compatibility:** Supports 2.4GHz wireless networks only. Not compatible with 5GHz networks.

4. SYSTEM REQUIREMENTS

Before installing the adapter, ensure your system meets the following requirements:

- An available USB 2.0 or 1.1 port.
- One of the following operating systems:
 - Windows CE 5.0/CE 6.0/7/8/8.1/10/11 (32/64-bit)
 - Kali Linux (including Ubuntu, Aircrack-ng)
 - Archlinux Manjaro 16.10
 - Linux 2.6.X and later
 - CentOS

5. SETUP AND INSTALLATION

Follow these steps to install your Deal4GO RT3070L Wireless USB WiFi Adapter:

5.1. Hardware Connection

1. **Attach the Antenna:** Carefully screw the provided 5dBi antenna onto the U.FL IPEX / IPX connector on the adapter. Ensure it is securely fastened but do not overtighten.



Figure 5.1: The RT3070L adapter with its antenna connected and the USB cable plugged in.

2. **Connect to Computer:** Plug the mini USB cable into the Micro USB 2.0 port on the adapter. Then, connect the other end of the USB cable to an available USB port on your computer.



Figure 5.2: The RT3070L adapter connected to a computer via USB, ready for driver installation.

3. **Power Indicator:** Once connected, the blue LED indicator light on the adapter should illuminate, indicating that the device is receiving power.

5.2. Driver Installation (Windows)

For Windows operating systems, drivers may be automatically installed. If not, follow these steps:

1. **Automatic Installation:** In most cases, Windows will detect the new hardware and attempt to install the necessary drivers automatically. Wait for this process to complete.
2. **Manual Installation:** If automatic installation fails or a driver disc is provided (not included in this package, typically drivers are online), you will need to download the appropriate Ralink RT3070 driver from the chipset manufacturer's website or a trusted driver repository.
3. **Run Driver Installer:** Locate the downloaded driver file (usually an .exe) and run it. Follow the on-screen prompts to complete the installation.
4. **Verify Installation:** After installation, go to Device Manager (right-click "This PC" > "Manage" > "Device Manager") and check under "Network adapters" for the Ralink RT3070 or similar entry.

5.3. Driver Installation (Linux - Kali, Ubuntu, Archlinux, CentOS)

For Linux distributions, driver installation typically involves command-line operations. The Ralink RT3070 chipset is generally well-supported.

1. **Check for Kernel Module:** Open a terminal and run `lsmod | grep rt3070sta` to see if the module is already loaded.
2. **Install Build Essentials:** You may need to install build tools: `sudo apt update && sudo apt install build-essential linux-headers-$(uname -r)` (for Debian/Ubuntu-based systems).
3. **Download Drivers:** Obtain the official Ralink RT3070 Linux drivers from MediaTek's website (Ralink is now part of MediaTek) or a distribution-specific repository.
4. **Compile and Install:**
 - Extract the driver archive: `tar -xf DRIVER_FILENAME.tar.gz`
 - Navigate into the extracted directory: `cd DRIVER_DIRECTORY`
 - Edit the Makefile if necessary (e.g., to enable WPA_SUPPLICANT).
 - Compile: `make`
 - Install: `sudo make install`
 - Load the module: `sudo modprobe rt3070sta`
5. **Network Configuration:** Configure your network manager to use the new wireless adapter. The device name might be `wlan0`, `wlan1`, or similar.

6. OPERATING INSTRUCTIONS

Once the drivers are successfully installed, you can connect to a wireless network.

6.1. Connecting to a Wireless Network (Windows)

1. **Access Network Settings:** Click on the Wi-Fi icon in the system tray (bottom right corner of the screen).
2. **Select Network:** A list of available wireless networks will appear. Select your desired network (SSID).
3. **Connect:** Click "Connect" and enter the network security key (password) if prompted.

4. **Verify Connection:** The Wi-Fi icon should indicate a successful connection, and you should be able to access the internet.

6.2. Connecting to a Wireless Network (Linux)

Connection methods vary depending on your Linux distribution and desktop environment (e.g., GNOME, KDE, XFCE) or if you are using a command-line interface.

- **Graphical Interface:** Use your desktop environment's network manager (e.g., NetworkManager applet) to scan for networks, select yours, and enter the password.
- **Command Line (Example using wpa_supplicant and ip commands):**
 - a. Identify your wireless interface: `ip link show` (look for wlan0, wlan1, etc.)
 - b. Bring up the interface: `sudo ip link set wlan0 up` (replace wlan0 with your interface name)
 - c. Scan for networks: `sudo iw dev wlan0 scan | grep SSID`
 - d. Configure wpa_supplicant (create /etc/wpa_supplicant/wpa_supplicant.conf):

```
network={  ssid="YOUR_SSID"  psk="YOUR_PASSWORD"}
```

- e. Run wpa_supplicant: `sudo wpa_supplicant -B -i wlan0 -c /etc/wpa_supplicant/wpa_supplicant.conf`
- f. Obtain an IP address: `sudo dhclient wlan0`

7. MAINTENANCE

To ensure optimal performance and longevity of your WiFi adapter, consider the following maintenance tips:

- **Keep Clean:** Periodically clean the adapter with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- **Proper Handling:** Avoid dropping the adapter or subjecting it to strong impacts.
- **Environmental Conditions:** Operate the adapter within normal room temperatures and avoid extreme humidity or direct sunlight.
- **Antenna Care:** Ensure the antenna is not bent or damaged. A damaged antenna can significantly reduce wireless performance.
- **Driver Updates:** Check for updated drivers periodically from the chipset manufacturer (MediaTek/Ralink) or your operating system's update channels to ensure compatibility and performance improvements.

8. TROUBLESHOOTING

If you encounter issues with your WiFi adapter, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Adapter not detected / LED off	Loose USB connection, faulty USB port, no power.	• Ensure USB cable is securely connected. • Try a different USB port on your computer. • Test the adapter on another computer if possible.

Problem	Possible Cause	Solution
No wireless networks found	Drivers not installed, Wi-Fi disabled, out of range, 5GHz network.	• Verify driver installation (Section 5). • Ensure Wi-Fi is enabled in your operating system settings. • Move closer to the wireless router. • Confirm your network is 2.4GHz, as this adapter does not support 5GHz.
Cannot connect to network / Incorrect password	Incorrect security key, network interference.	• Double-check the Wi-Fi password. • Restart your wireless router. • Ensure your router's security settings are compatible (WPA2-PSK is common).
Slow connection speed	Interference, distance from router, outdated drivers.	• Move closer to the router or reposition the antenna. • Check for other devices causing interference (e.g., microwaves, cordless phones). • Update drivers to the latest version. • Ensure your router is configured for 802.11n if you expect 150Mbps speeds.

9. SPECIFICATIONS

Feature	Detail
Model Number	RT3070L
Chipset	Ralink RT3070
Wireless Standards	IEEE 802.11 b/g/n
Frequency Band	2.4GHz (Not compatible with 5GHz)
Data Transfer Rate	Up to 150Mbps
Antenna Type	Detachable 5dBi Antenna (1T1R)
Antenna Connector	U.FL IPEX / IPX Connector
Interface	Micro USB 2.0/1.1, Type A
LED Indicator	Blue
Supported Operating Systems	Windows CE 5.0/6.0/7/8/8.1/10/11 (32/64-bit), Kali Linux, Ubuntu, Archlinux Manjaro 16.10, Linux 2.6.X, CentOS
Product Dimensions	3.74 x 2.36 x 0.79 inches (Adapter unit without antenna)

Feature	Detail
Item Weight	4.2 ounces

10. WARRANTY AND SUPPORT

This product is manufactured by Generic (sold by Deal4Go). For warranty information and technical support, please refer to the seller's policies on the platform where the product was purchased or contact Deal4Go directly. Keep your purchase receipt as proof of purchase.

For driver downloads and further technical documentation related to the Ralink RT3070 chipset, please visit the MediaTek support website.

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Name

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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