Dionlink ES-4GRT-220105

Dionlink 4G LTE Modem Router 410-3 Instruction Manual

Model: ES-4GRT-220105 | Brand: Dionlink

1. Introduction

The Dionlink 4G LTE Modem Router 410-3 is designed to provide reliable internet access, especially in areas with limited or no broadband service. This user-friendly device converts a 4G LTE signal into a Wi-Fi network, supporting multiple devices simultaneously. It features a Qualcomm chipset for stable performance and high-gain antennas for improved signal coverage. This manual provides essential information for setting up, operating, and maintaining your router.

2. Product Overview

Key Features:

- **4G LTE Connectivity:** Supports downloads up to 150Mbps and uploads up to 50Mbps.
- **Wi-Fi Signal:** Provides 300Mbps Wi-Fi speed, supporting up to 32 devices.
- **Network Ports:** Includes 1 WAN port and 2 Ethernet (LAN) ports for wired connections.
- **Automatic Failover:** Automatically switches to the 4G network if the broadband connection is lost.
- **Qualcomm Chipset:** Equipped with an EC25-AFX Qualcomm chipset for stable and efficient operation.
- **High Gain Antennas:** Features 5dBi high-gain antennas for stronger signals and better coverage.
- **SIM Card Slot:** Designed for standard 4G SIM cards (2FF).

Components and Ports:

Familiarize yourself with the router's physical components and ports:

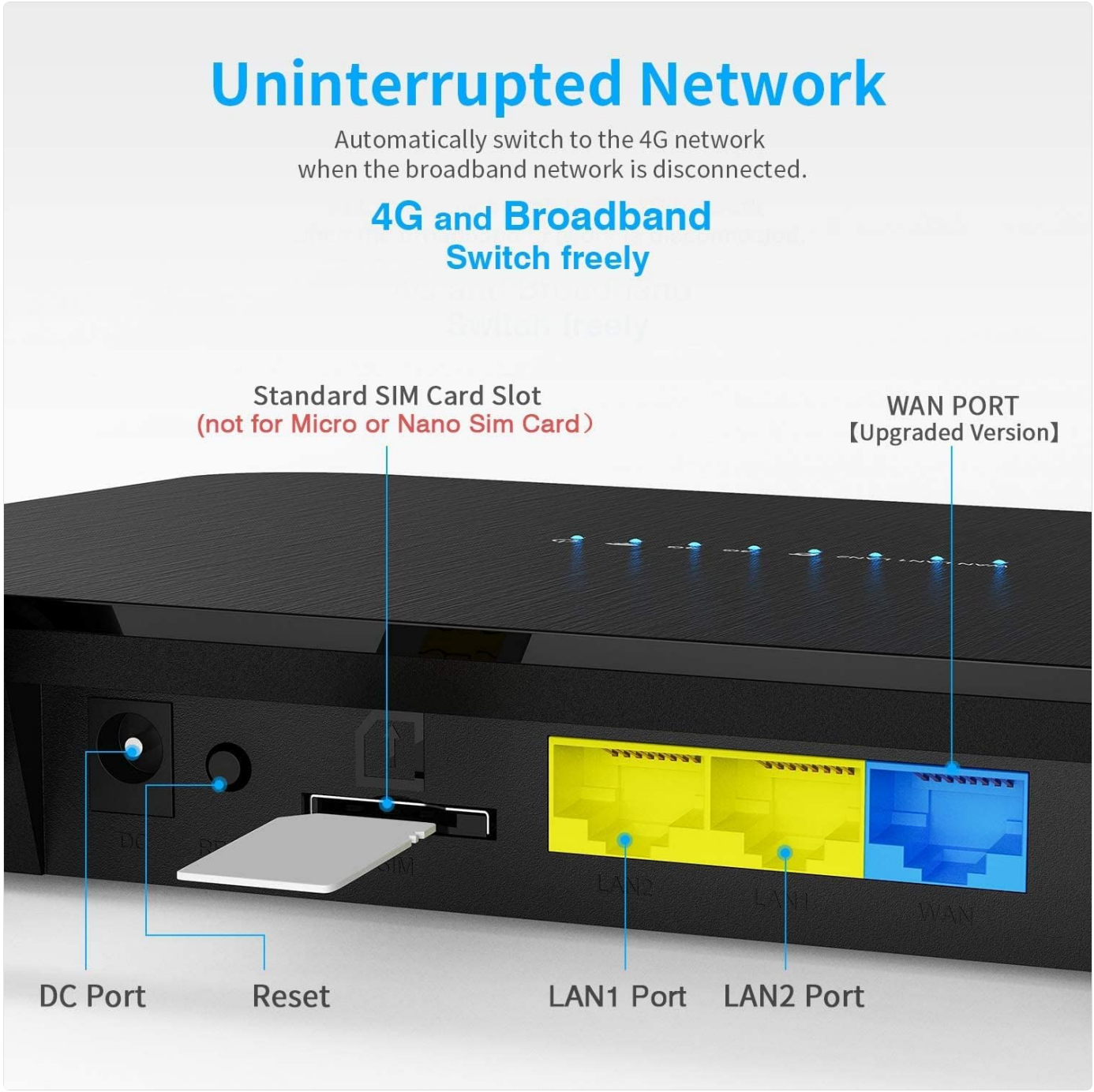


Figure 2.1: Rear View of Dionlink 4G LTE Modem Router

This image displays the rear panel of the router, highlighting the DC power port, reset button, standard SIM card slot, two LAN ports (LAN1, LAN2), and one WAN port. The SIM card slot is specifically noted as not being for Micro or Nano SIM cards.

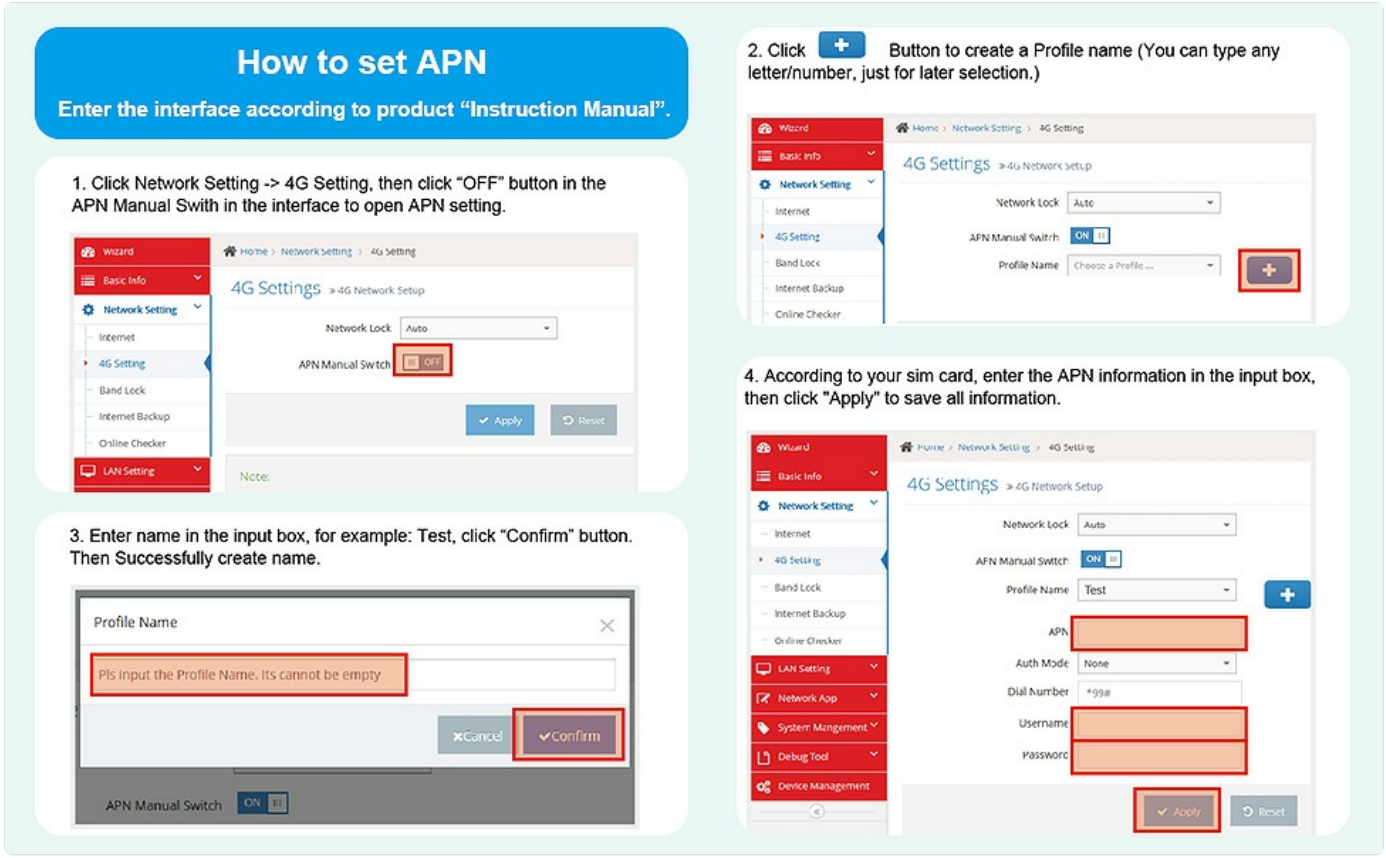


Figure 2.2: Dionlink 4G LTE Router Feature Overview

This image provides a visual summary of the router's capabilities, including 4G LTE, 300Mbps WiFi, Plug and Play SIM, support for 32 devices, WLAN creation, and uninterrupted network functionality.



Figure 2.3: Qualcomm Chipset and Speed Capabilities

A close-up of the powerful Qualcomm MDM9607 Chip, illustrating download speeds up to 150 Mbps and upload speeds up to 50 Mbps.

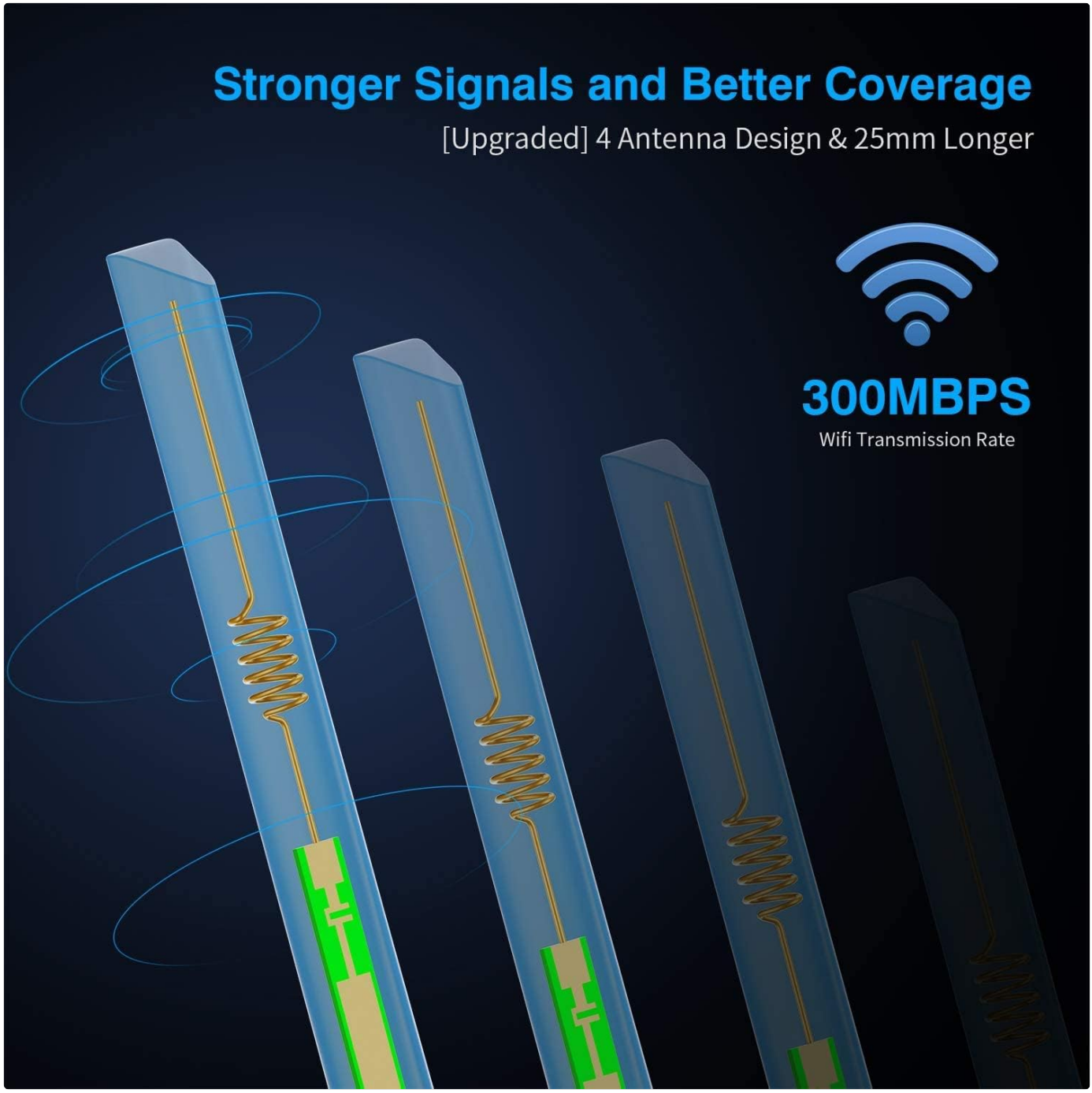


Figure 2.4: High Gain Antennas and Wi-Fi Transmission Rate
This image highlights the router's four upgraded 5dBi high-gain antennas, which are 25mm longer for stronger signals and better coverage, supporting a 300Mbps Wi-Fi transmission rate.

3. Setup

Follow these steps to set up your Dionlink 4G LTE Modem Router:

1. **Insert SIM Card:** Ensure the router is powered off. Locate the standard SIM card slot on the rear panel. Gently insert your standard 4G SIM card into the slot until it clicks into place. (Note: Micro or Nano SIM cards are not supported directly; use an adapter if necessary).
2. **Connect Power:** Plug the power adapter into the DC port on the router and then into a power outlet. The router will power on automatically.
3. **Power On:** Wait for the indicator lights on the router to stabilize. The 4G signal indicator should turn solid, indicating a successful connection to the cellular network.

4. **Connect to Wi-Fi:** On your computer or mobile device, search for available Wi-Fi networks. Select the network name (SSID) found on the label at the bottom of your router. Enter the default Wi-Fi password (WIFI KEY) provided on the same label.
5. **Wired Connection (Optional):** For a wired connection, connect an Ethernet cable from one of the LAN ports on the router to your computer or other network device.



Figure 3.1: SIM Card Insertion

This image shows the router with its top cover removed, revealing the internal components and highlighting the standard SIM card slot for easy insertion.

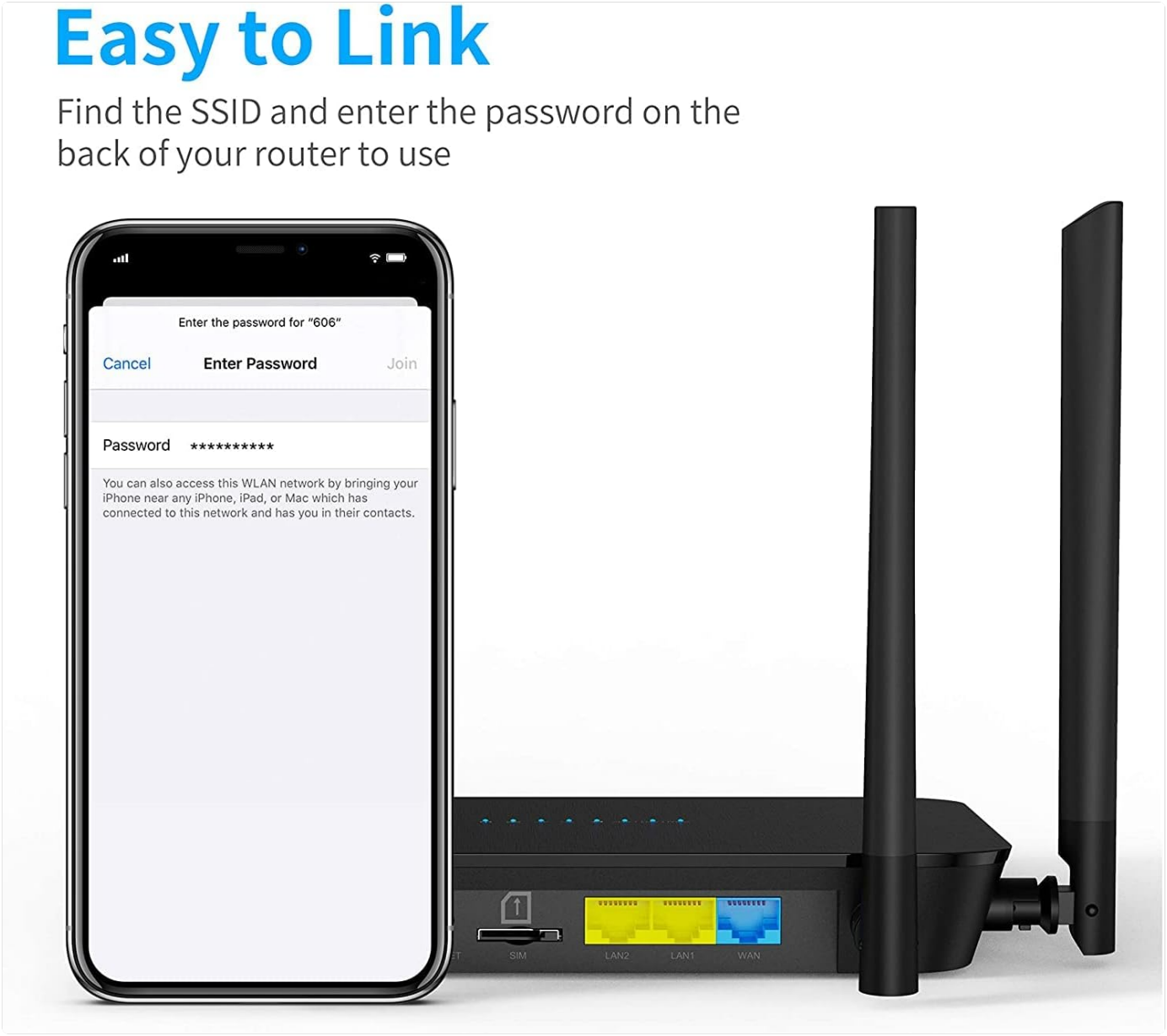


Figure 3.2: Connecting to Wi-Fi

A smartphone screen displaying the Wi-Fi network selection and password entry, with the router visible in the background, demonstrating the ease of connecting to the network.

Setup Video:

Video 3.1: Operating the Machine

This video demonstrates the basic steps to operate the router, including inserting the SIM card, plugging in the power supply, and connecting to the Wi-Fi network using a smartphone. It highlights the user-friendly setup process.

Video 3.2: H5577 Unlocked 4G LTE Modem Router with SIM Card Slot, 15

This short preview video illustrates the quick setup of an unlocked 4G LTE modem router, showing the insertion of a SIM card, power connection, and initial Wi-Fi setup. It emphasizes the ease of use for beginners.

4. Operating Instructions

Once set up, your Dionlink 4G LTE Modem Router provides seamless internet access. Here's how to maximize its use:

- **Connecting Multiple Devices:** The router supports up to 32 devices simultaneously. Connect smartphones, tablets, laptops, smart TVs, and other Wi-Fi-enabled devices using the Wi-Fi network name and password.
- **Wired Connections:** Use the Ethernet (LAN) ports to connect devices that require a stable wired connection, such as desktop

computers, gaming consoles, or network storage devices.

- **WAN Port Usage:** The WAN port can be used to connect to a traditional broadband modem, allowing the router to function as a standard Wi-Fi router. It also supports automatic failover to 4G LTE if the wired WAN connection is interrupted.
- **Optimal Placement:** For the best Wi-Fi coverage and signal strength, place the router in a central location within your home or office, away from obstructions and other electronic devices that may cause interference.



Figure 4.1: Surfing Anywhere Without Wire

This image illustrates the router's versatility, showing it providing wireless internet access in various environments such as homes, offices, parties, apartments, dormitories, hotels, and shops.



Figure 4.2: Ideal Usage Scenarios

This image highlights the router's suitability for homes with weak or no broadband service, as a primary or alternative internet connection, and for use in apartments, vacation homes, or during travel.

5. Maintenance

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

- **Keep it Clean:** Regularly dust the router to prevent accumulation in ventilation holes, which can lead to overheating.
- **Proper Ventilation:** Ensure the router is placed in a well-ventilated area to allow for proper heat dissipation. Avoid covering it or placing it in enclosed spaces.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates. Keeping your firmware up-to-date can improve performance, security, and add new features.
- **Restart Periodically:** A periodic restart (e.g., once a month) can help clear temporary glitches and refresh the network connection.

6. Troubleshooting

If you encounter issues with your router, try the following troubleshooting steps:

- **No Internet Connection:**
    - Check if the 4G signal indicator is solid. If not, ensure the SIM card is correctly inserted and you have an active data plan.
    - Verify that your cellular provider has coverage in your area.
    - If using a wired WAN connection, ensure the Ethernet cable is securely connected and your broadband modem is working correctly.
- **Weak Wi-Fi Signal:**

- Relocate the router to a more central position, away from walls, large metal objects, and other electronic devices.
- Ensure the external antennas are properly attached and oriented for optimal reception.

- **Cannot Connect to Wi-Fi:**
  - Double-check the Wi-Fi network name (SSID) and password.
  - Restart both your router and the device you are trying to connect.
- **Router Not Responding:**
  - Press the Reset button on the rear panel using a paperclip for 5-10 seconds to restore factory default settings. Note that this will erase all custom configurations.



Figure 6.1: How to Set APN

This image provides a step-by-step guide on how to configure APN settings through the router's web interface, which can be crucial for establishing a proper 4G connection.

7. Specifications

Model Name	ES-4GRT-220105
Brand	Dionlink
Connectivity Technology	LTE
Wireless Communication Standard	802.11n
Frequency Band Class	Dual-Band
Download Speed (Max)	150Mbps

Upload Speed (Max)	50Mbps
Wi-Fi Transmission Rate	300Mbps
Supported Devices	Up to 32
Ports	1x WAN, 2x Ethernet (LAN)
SIM Card Type	Standard 4G SIM (2FF)
Antennas	5dBi High Gain Antennas
Chipset	EC25-AFX Qualcomm Chipset
Color	BLACK
Item Weight	1.19 pounds
Package Dimensions	10.39 x 9.69 x 1.89 inches

8. Warranty and Support

For warranty information or technical support, please refer to the documentation included in your product packaging or contact Dionlink customer service directly. Keep your purchase receipt for warranty claims.

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