

TP-Link Archer MR600

TP-Link Archer MR600 4G+ LTE Router User Manual

Model: Archer MR600

1. INTRODUCTION

The TP-Link Archer MR600 is a 4G+ LTE router designed to provide high-speed internet connectivity using a SIM card. It supports Cat6 LTE for download speeds up to 300 Mbps and features AC1200 dual-band Wi-Fi (300Mbps on 2.4GHz and 867Mbps on 5GHz). This router is ideal for homes and offices where a fixed line internet connection is unavailable or as a reliable backup solution. It includes advanced features like MU-MIMO technology for efficient multi-device connections and OneMesh support for creating a unified Wi-Fi network.

Package Contents

- Archer MR600 Router
- Power Adapter
- RJ45 Ethernet Cable
- Quick Installation Guide

2. SETUP

2.1 SIM Card Installation

Before powering on the router, insert your Micro SIM card into the designated slot. Ensure the SIM card is correctly oriented as shown in the diagram below. The router is compatible with standard 4G FDD-LTE and TDD-LTE operators.

Router 4G+ con velocità fino a 300Mbps

Inserisci una SIM Card e connetti la tua casa



Alloggio per **SIM Card**

Compatibile con i principali operatori telefonici nel mondo (Standard 4G FDD-LTE e TDD-LTE).

Figure 2.1: Rear view of the Archer MR600 router showing the Micro SIM card slot. Insert the SIM card into the slot until it clicks into place.

2.2 Power On

Connect the provided power adapter to the router's power port and then plug it into a wall outlet. The router will automatically power on. Wait for the LED indicators to stabilize, typically indicating a successful connection to the 4G network.

2.3 Initial Configuration

The Archer MR600 is designed for Plug&Play operation. Once the SIM card is inserted and the router is powered on, it should automatically connect to the internet. If a PIN is required for your SIM card, you will need to unlock it through the router's web management interface or the TP-Link Tether app.

To access the web management interface:

1. Connect your computer to the router via an Ethernet cable or Wi-Fi. The default Wi-Fi name (SSID) and password are printed on the label at the bottom of the router.
2. Open a web browser and enter <http://tplinkmodem.net> or <http://192.168.1.1> in the address bar.

3. Log in using the default username and password (usually 'admin' for both).
4. Follow the on-screen Quick Setup instructions to configure your internet connection and Wi-Fi settings.

Alternatively, download the **TP-Link Tether app** on your smartphone for easy setup and management.

3. OPERATING

3.1 Wi-Fi Connectivity

The Archer MR600 provides dual-band AC1200 Wi-Fi, offering speeds up to 300Mbps on the 2.4GHz band and 867Mbps on the 5GHz band. This allows for flexible connections for various devices, from basic browsing to high-bandwidth activities like streaming and gaming.

The router also incorporates **MU-MIMO Technology**, which enables it to communicate with multiple devices simultaneously. This significantly improves Wi-Fi efficiency and speed, especially in environments with many connected devices, reducing latency and optimizing performance.

Wi-Fi Dual Band AC1200 con Tecnologia MU-MIMO

Connessioni Wi-Fi simultanee ad alta velocità



2.4GHz
fino a 300Mbps

5GHz
fino a 867Mbps

MU-MIMO
Rete più veloce con
connessioni simultanee
per più dispositivi



Figure 3.1: Diagram showing the dual-band Wi-Fi capabilities (2.4GHz and 5GHz) and the benefit of MU-MIMO for simultaneous connections to multiple devices.

3.2 Wired Connections

The router is equipped with four Gigabit Ethernet ports: three LAN ports and one configurable LAN/WAN port. These ports provide ultra-fast wired connections for devices that require maximum stability and speed, such as desktop PCs, gaming consoles, and Smart TVs.

The LAN/WAN port can be used for two purposes:

- As an additional LAN port for wired devices.
- To connect to an existing fixed-line modem/router, serving as a backup internet connection in case the 4G network is unavailable.

Connettività Gigabit

Collega alla rete i tuoi dispositivi cablati



Figure 3.2: Rear panel of the Archer MR600, highlighting the power button, LAN ports, LAN/WAN port, WPS button, Reset button, Wi-Fi On/Off button, and Micro SIM card slot.

3.3 OneMesh Functionality

The Archer MR600 supports TP-Link OneMesh technology. When paired with compatible TP-Link OneMesh extenders, it creates a unified Wi-Fi network throughout your home or office. This eliminates Wi-Fi dead zones and ensures seamless roaming as you move between rooms, maintaining a single network name and password.

Supporto OneMesh per reti Wi-Fi unificate senza interruzioni

Abbina a Archer MR600 un extender TP-Link dotato di tecnologia OneMesh e porta il segnale in ogni stanza



Roaming senza
interruzioni



Unico nome
di rete



Installazione
rapida



Gestione semplice
con app

Figure 3.3: Illustration of the OneMesh feature, demonstrating how the Archer MR600 can extend Wi-Fi coverage throughout a home when combined with a OneMesh extender.

4. MAINTENANCE

4.1 Antenna Management

The Archer MR600 features two removable external antennas. These antennas are crucial for optimal 4G signal reception. For best performance, ensure they are securely attached and oriented vertically. In areas with weak signal, you may consider replacing them with more powerful external antennas via the SMA ports.

Antenne LTE smontabili

Ricezione ottimale del segnale 4G



Figure 4.1: The Archer MR600 router with its two removable LTE antennas and a close-up of the SMA port for antenna connection.

4.2 Firmware Updates

Regularly check for and install firmware updates for your router. Firmware updates often include performance improvements, security patches, and new features. You can usually find firmware updates on the official TP-Link website or through the router's web management interface.

4.3 Cleaning

To maintain optimal performance, keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Avoid using liquid cleaners or abrasive materials.

5. TROUBLESHOOTING

5.1 No Internet Connection

- **Check SIM Card:** Ensure the SIM card is correctly inserted and activated with your mobile operator.

- **Unlock PIN:** If your SIM card has a PIN, access the router's web management interface or Tether app to unlock it.
- **Signal Strength:** Verify the 4G signal strength indicated by the router's LEDs. If the signal is weak, try repositioning the router or adjusting the antennas.
- **APN Settings:** For some mobile operators (e.g., CoopVoce), you might need to manually configure the Access Point Name (APN) settings in the router's web interface. Refer to your mobile operator's support for the correct APN details.
- **Reboot:** Power cycle the router by unplugging it for 10 seconds and then plugging it back in.

5.2 Slow Wi-Fi Speed

- **Router Placement:** Place the router in a central location, away from obstructions and devices that cause interference (e.g., microwaves, cordless phones).
- **Band Selection:** Connect devices that require higher speeds (e.g., streaming devices, gaming consoles) to the 5GHz Wi-Fi band, while other devices can use the 2.4GHz band.
- **Interference:** Check for Wi-Fi interference from neighboring networks using a Wi-Fi analyzer app and switch to a less congested channel.
- **Number of Devices:** While MU-MIMO helps, an excessive number of devices or high-bandwidth activities can still impact performance.

5.3 Router Freezes or Loses Connection

- **Reboot:** If the router freezes or loses connection, manually power it off and then on again.
- **Firmware Update:** Ensure your router's firmware is up to date. Outdated firmware can sometimes lead to instability.
- **Overheating:** Ensure the router is in a well-ventilated area to prevent overheating, which can cause performance issues.

5.4 Factory Reset

If you encounter persistent issues, you can perform a factory reset. With the router powered on, press and hold the **Reset** button (located on the rear panel) for approximately 10 seconds until the LEDs flash. The router will restart with factory default settings.

6. SPECIFICATIONS

Feature	Detail
Brand	TP-Link
Model Name	ARCHER MR600
Item Dimensions (LxWxH)	20.2L x 14.1W x 3.4H cm
Item Weight	250 grams
Wireless Communication Standard	802.11a, 802.11ac, 802.11b, 802.11g, 802.11n
Frequency Band Class	Dual Band (2.4GHz & 5GHz)

Data Transfer Rate	300 Megabits per second (4G+ LTE), AC1200 Wi-Fi (300Mbps 2.4GHz, 867Mbps 5GHz)
LAN Port Bandwidth	1000 Mbps (Gigabit)
Number of Ports	4 (3x LAN, 1x LAN/WAN)
Antenna Type	Fixed (2 external removable antennas)
Security Protocol	WPA2-PSK or WPA2-Enterprise
Router Firewall Security Level	High
Connectivity Protocol	Wi-Fi, Ethernet, Mobile Networks (4G)
Voltage	220 Volt

7. WARRANTY & SUPPORT

7.1 Product Warranty

The TP-Link Archer MR600 comes with a **3-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

7.2 Technical Support

For technical assistance, troubleshooting, or further inquiries, please contact TP-Link Technical Support:

- **Phone:** +39 02 92392214 (Operating hours: Mon-Thu 9:00-13:00, 14:00-18:00; Fri 9:00-13:00, 14:00-17:00 CET)
- **Website:** Visit the official TP-Link website for support resources, FAQs, and firmware downloads.

Please have your product model and serial number ready when contacting support.

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