

ZTE MC7010

ZTE MC7010 5G Outdoor Router User Manual

Model: MC7010

1. INTRODUCTION AND OVERVIEW

The ZTE MC7010 is a high-performance 5G outdoor router designed to provide robust cellular reception for your home or property. By being mounted outdoors, it minimizes signal loss often caused by concrete walls or windows, ensuring a stable and interference-free mobile connection throughout your premises. This device is weather-resistant and supports both 5G and LTE networks, offering high-speed data transfer capabilities for demanding applications like online gaming and 4K streaming.

Please note that the MC7010 is an outdoor modem and does not include built-in Wi-Fi functionality. It is designed to connect to an indoor Wi-Fi router or access point to distribute the internet connection within your home.

2. PRODUCT FEATURES

- Weather-resistant design for outdoor installation.
- Enhanced mobile reception by avoiding signal attenuation from building materials.
- Flexible mounting options (wall, balcony, roof).
- Supports 5G connectivity with download speeds up to 3.45 Gbit/s and upload speeds up to 900 Mbit/s.
- Supports LTE (Cat. 22) with download speeds up to 2.4 Gbit/s and upload speeds up to 225 Mbit/s.
- Features Speed Bridge Mode, DHCP, DMZ, and Port Forwarding.
- Includes Power over Ethernet (PoE) adapter for simplified installation.
- LED indicators for Signal, Network, LAN, and Power status.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- ZTE MC7010 5G Outdoor Router
- PoE (Power over Ethernet) Adapter
- Ethernet Cable (approximately 10 meters, designed for waterproof connection)
- Wall Mount Bracket
- Mounting Hardware (screws, wall plugs, metal strap)

4. SETUP AND INSTALLATION

Follow these steps for a successful installation of your ZTE MC7010 router:

1. **Unpack the Product:** Carefully remove all components from the packaging.
2. **Insert SIM Card:** Locate the SIM card slot on the device. Insert your 5G compatible SIM card into the designated slot. Ensure it is correctly oriented and securely seated.
3. **Connect PoE Adapter:** Connect the PoE adapter to a power outlet.
4. **Connect Ethernet Cable:** Connect one end of the provided Ethernet cable to the PoE adapter's data/power output port. Connect the other end of the Ethernet cable to the ZTE MC7010 router. Ensure the waterproof cap is securely closed around the cable connection on the router to maintain weather resistance.
5. **Mount the Router:**
 - Choose an optimal outdoor location for mounting, such as a wall, balcony, or roof, where cellular signal strength is best.
 - Use the provided wall mount bracket and hardware to securely attach the router. The device can be oriented to optimize signal reception.
 - An app may be available to assist with antenna alignment for optimal signal strength.
6. **Connect to Indoor Network:** Connect the data output port of the PoE adapter to your indoor Wi-Fi router or network switch. This will distribute the internet connection to your devices.
7. **Initial Configuration:**
 - Connect a computer to your indoor Wi-Fi router (which is connected to the MC7010).
 - Open a web browser and navigate to the router's administration interface, typically <http://192.168.254.1>.
 - Log in using the default credentials (refer to the sticker on the device or the quick start guide for default username and password).
 - Configure the APN (Access Point Name) settings according to your mobile network provider's specifications.





Figure 1: Front view of the ZTE MC7010 5G Outdoor Router, showing the 5G logo and LED indicators for Signal, Network, LAN, and Power.



Figure 2: Bottom view of the ZTE MC7010, illustrating the Ethernet ports for connection and the SIM card slot protected by a cover.



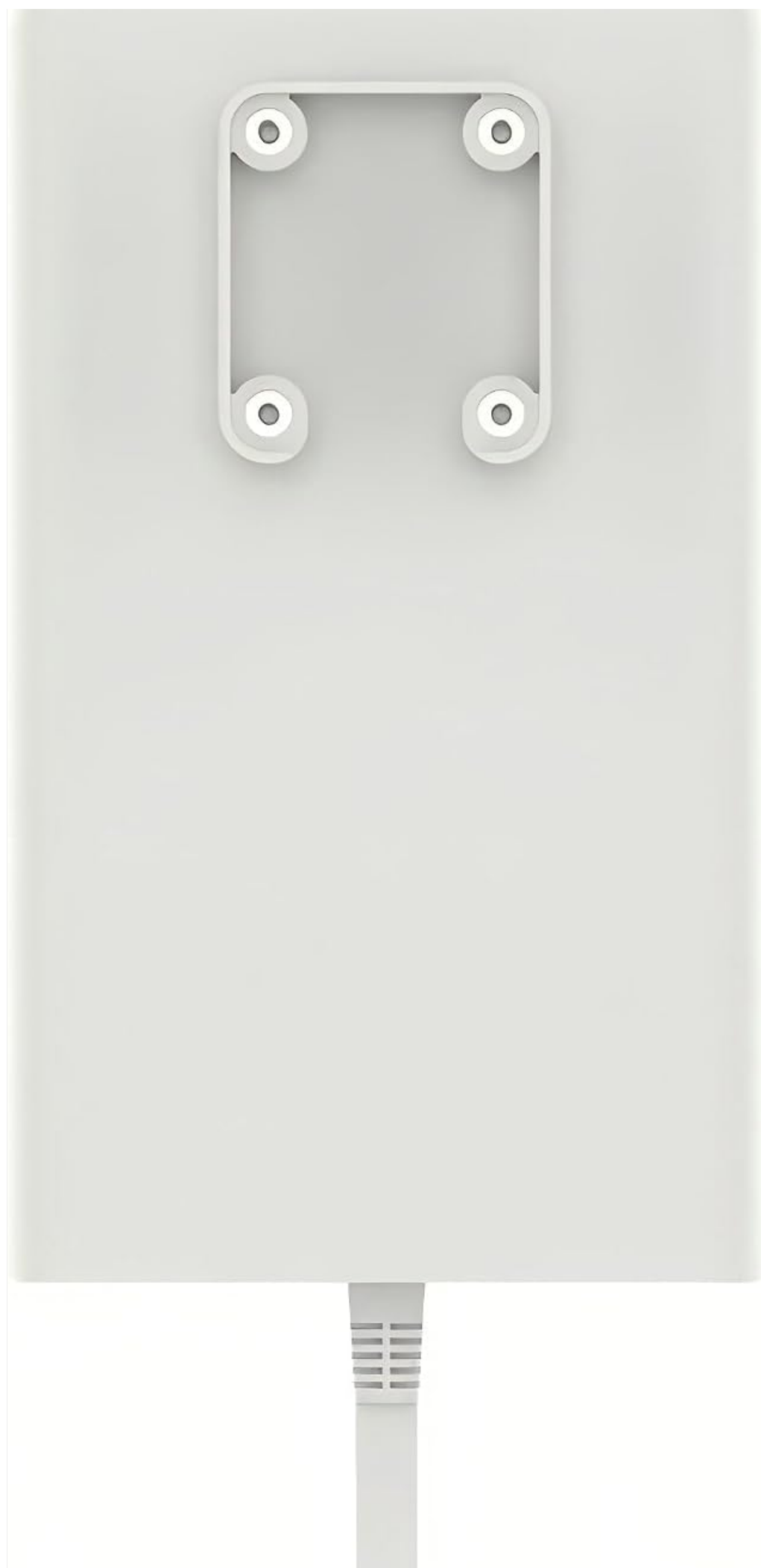




Figure 3: Rear view of the ZTE MC7010, showing the integrated mounting bracket for secure outdoor installation.

5. OPERATING INSTRUCTIONS

LED Indicators

The ZTE MC7010 features several LED indicators on its front panel to provide quick status updates:

- **Signal LED:** Indicates the strength of the cellular signal. More illuminated bars typically mean a stronger signal.
- **Network LED:** Shows the status of the cellular network connection (e.g., connected to 5G, LTE, or no service).
- **LAN LED:** Indicates activity on the LAN (Ethernet) port, signifying data transfer to your indoor network.
- **Power LED:** Confirms that the device is receiving power.

Advanced Settings (Web Interface)

Access the web administration interface at <http://192.168.254.1> to configure advanced settings:

- **Speed Bridge Mode:** Allows the device to operate as a simple bridge, passing network traffic directly.
- **DHCP:** Configure DHCP server settings for IP address assignment.
- **DMZ (Demilitarized Zone):** Set up a DMZ host for specific network applications.
- **Port Forwarding:** Configure rules to forward incoming network traffic to specific devices on your local network.
- **Service Watchdog:** A feature to monitor network services and automatically restart them if issues are detected.



Figure 4: The ZTE MC7010 router shown mounted on an exterior wall, demonstrating its intended outdoor installation.

6. MAINTENANCE

To ensure optimal performance and longevity of your ZTE MC7010 outdoor router, consider the following maintenance tips:

- **Regular Cleaning:** Periodically inspect the exterior of the router for dirt, dust, or debris. Gently wipe it clean with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Check Connections:** Annually or semi-annually, inspect all cable connections, especially the Ethernet cable connected to the router, to ensure they are secure and the waterproof seal is intact.
- **Firmware Updates:** Check the ZTE official website or the router's web interface for available firmware updates. Keeping the firmware updated can improve performance, stability, and security.
- **Environmental Inspection:** Ensure that the mounting location remains clear of obstructions (e.g., growing foliage) that could block the signal or damage the device.

7. TROUBLESHOOTING

If you encounter issues with your ZTE MC7010, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Power / Power LED Off	PoE adapter unplugged or faulty; power outage.	Ensure PoE adapter is securely plugged into a working power outlet. Check the power cable.
No Internet Connection / Network LED Off or Red	No SIM card; incorrect APN settings; poor cellular signal; network outage; SIM card not activated.	Verify SIM card is correctly inserted and activated. Check APN settings in the web interface. Relocate the router for better signal (monitor Signal LED). Contact your mobile network provider for network status.
Slow Internet Speed	Weak cellular signal; network congestion; incorrect router placement.	Check Signal LED for strength; adjust router position or orientation. Consider peak network usage times. Ensure your indoor Wi-Fi network is not the bottleneck.
Frequent Disconnections / Device Restarts	Power instability; firmware issue; overheating; network instability.	Ensure stable power supply to the PoE adapter. Check for and apply the latest firmware updates. Ensure the router is not exposed to extreme heat. If issues persist, contact ZTE support.
Cannot Access Web Interface (192.168.254.1)	Incorrect IP address; network configuration issue; router not powered on.	Verify you are typing the correct IP address. Ensure your computer is connected to the network that the MC7010 is providing internet to. Temporarily disable any VPN or proxy settings on your computer. Restart the router and try again.

8. SPECIFICATIONS

Feature	Detail
Brand	ZTE
Model Name	ZTE MC7010
Color	White

Feature	Detail
Operating System	Linux
Connectivity Technology	Wi-Fi (for connection to internal network, router itself is cellular modem)
Special Features	Weather-resistant
Compatible Devices	Personal computer, laptop, tablet, smartphone, game console
Frequency Band Class	Single-band
Wireless Communication Standard	802.11ac (refers to the standard it can connect to, not that it emits Wi-Fi)
Recommended Uses	Home use
Included Components	Wall mount, PoE adapter, Ethernet cable
5G Download Speed (Max)	3.45 Gbit/s
5G Upload Speed (Max)	900 Mbit/s
LTE Download Speed (Max)	2.4 Gbit/s (Cat. 22)
LTE Upload Speed (Max)	225 Mbit/s

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, and service, please refer to the documentation included with your purchase or visit the official ZTE website. Warranty terms and conditions may vary by region and retailer. It is recommended to register your product with ZTE, if applicable, to receive updates and support notifications.

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

How do I open the SIM card cover on the ZTE MC7010 5G Outdoor Router, and what tool is required?

To change the SIM card on the ZTE MC7010, you need to access the slot located on the bottom of the device. This slot is protected by a weather-resistant cover to maintain its IP...

[Read full answer](#)