

ZTE

ZTE MC889 5G + T3000 WiFi 6 Outdoor 5G Router User Manual

Model: ZTE MC889 5G + T3000

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ZTE MC889 5G + T3000 WiFi 6 Outdoor 5G Router. This device is designed to provide high-speed 5G cellular connectivity and distribute it as a robust Wi-Fi 6 network indoors, making it ideal for locations with weak indoor cellular signals but strong outdoor coverage. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. SAFETY INFORMATION

- **Installation:** Ensure the outdoor unit is installed in a secure location, away from direct lightning strikes and extreme weather conditions beyond its IP rating. Professional installation is recommended for outdoor mounting.
- **Power Supply:** Use only the provided Power over Ethernet (PoE) injector and power adapter. Using unauthorized power sources may damage the device and void the warranty.
- **Ventilation:** Ensure the indoor unit (T3000) has adequate ventilation to prevent overheating. Do not block ventilation openings.
- **Water and Moisture:** The outdoor unit (MC889) is designed for outdoor use and is weatherproof. However, avoid submerging it in water. The indoor unit (T3000) is not waterproof; keep it away from water and high humidity.
- **Cleaning:** Disconnect power before cleaning. Use a dry, soft cloth. Do not use liquid or aerosol cleaners.
- **Interference:** Keep the device away from medical devices, as it may cause interference.

3. PACKAGE CONTENTS

Please check the package contents carefully. If any item is missing or damaged, contact your vendor immediately.

- ZTE MC889 5G Outdoor Unit
- ZTE T3000 WiFi 6 Indoor Router
- PoE Injector
- Power Adapter for PoE Injector
- Ethernet Cable (for PoE connection)
- Mounting Kit (for outdoor unit)
- Quick Start Guide
- Warranty Card

4. PRODUCT OVERVIEW

4.1 Components and Indicators



Image: The ZTE MC889 5G Outdoor Unit (left) and the ZTE T3000 WiFi 6 Indoor Router (right). The outdoor unit is a rectangular white device with "ZTE" branding and indicator lights for Signal, Network, LAN, and Power. The indoor router is a flat white device with four foldable antennas and "ZTE" branding, featuring a "WiFi 6" label on one antenna.

ZTE MC889 5G Outdoor Unit (Left in image)

- **Signal Indicator:** Displays the strength of the 5G/4G cellular signal.
- **Network Indicator:** Shows the status of the network connection (e.g., connected to cellular network).
- **LAN Indicator:** Indicates activity on the LAN port connected to the PoE injector.
- **Power Indicator:** Shows the power status of the device.
- **SIM Card Slot:** Located on the unit, for inserting your Nano-SIM card.
- **PoE Port:** Connects to the PoE injector for power and data transmission.

ZTE T3000 WiFi 6 Indoor Router (Right in image)

- **Wi-Fi Antennas:** Four external antennas for optimal Wi-Fi 6 signal coverage.
- **LAN Ports:** Multiple Gigabit Ethernet ports for wired connections to devices.
- **WAN/LAN Port:** One port typically used for connecting to the PoE injector from the outdoor unit.
- **Power Port:** For connecting the power adapter (if not using PoE for the indoor unit, though typically powered by PoE from the outdoor unit setup).

- **Reset Button:** Used to restore factory default settings.

5. SETUP

5.1 SIM Card Installation (MC889 Outdoor Unit)

1. Ensure the outdoor unit is powered off.
2. Locate the SIM card slot cover on the outdoor unit.
3. Carefully open the cover and insert a Nano-SIM card into the slot with the gold contacts facing down and the notched corner aligned correctly.
4. Close the SIM card slot cover securely to maintain weatherproofing.

5.2 Outdoor Unit Mounting

Choose a location for the MC889 outdoor unit that has the best 5G/4G signal reception and is free from obstructions. Common locations include exterior walls, poles, or rooftops. Use the provided mounting kit and follow local regulations for outdoor installations.

- Mount the unit securely using the provided brackets and screws.
- Ensure the unit is oriented for optimal signal reception.
- Route the Ethernet cable from the outdoor unit to the indoor location where the T3000 router and PoE injector will be placed.

5.3 Connecting the System

1. Connect one end of the Ethernet cable from the MC889 outdoor unit to the "PoE Out" port on the PoE injector.
2. Connect another Ethernet cable from the "LAN In" port on the PoE injector to the WAN/LAN port on the T3000 indoor router.
3. Connect the power adapter to the PoE injector and plug it into a power outlet.
4. Power on the T3000 indoor router.
5. Wait for the indicator lights on both units to stabilize, indicating successful power-on and network connection.

5.4 Initial Configuration

1. Connect your computer or smartphone to the T3000 indoor router's Wi-Fi network (SSID and password are usually found on a sticker on the router). Alternatively, connect your computer to one of the T3000's LAN ports with an Ethernet cable.
2. Open a web browser and enter the router's default IP address (e.g., 192.168.1.1 or router.zte.com). Refer to the sticker on the router for the exact address.
3. Log in using the default username and password (also found on the sticker).
4. Follow the on-screen setup wizard to configure your internet connection (APN settings if required by your mobile operator), Wi-Fi name (SSID), and password.
5. It is highly recommended to change the default login password for the router's web interface for security reasons.

6. OPERATING INSTRUCTIONS

6.1 Connecting to Wi-Fi

To connect your devices (smartphones, laptops, tablets) to the T3000's Wi-Fi network:

1. On your device, go to Wi-Fi settings.
2. Select the Wi-Fi network name (SSID) you configured during setup.
3. Enter the Wi-Fi password.
4. Your device should now be connected to the internet.

6.2 Managing Your Network

Access the router's web interface (as described in Section 5.4) to manage advanced settings:

- **Network Status:** View current signal strength, connected devices, and data usage.
- **Wi-Fi Settings:** Change SSID, password, security type, and enable/disable guest networks.
- **LAN Settings:** Configure DHCP server, IP address range.
- **Firewall & Security:** Set up port forwarding, DMZ, VPN, and parental controls.
- **System Tools:** Reboot, restore factory settings, update firmware, view logs.

7. MAINTENANCE

- **Cleaning:** Periodically clean the indoor unit with a soft, dry cloth. For the outdoor unit, ensure no debris obstructs its casing or ports.
- **Firmware Updates:** Regularly check for and install firmware updates through the router's web interface. Firmware updates often include performance improvements, security patches, and new features.
- **Optimal Placement:** Ensure the indoor router is placed in a central location to maximize Wi-Fi coverage. Avoid placing it near large metal objects or other electronic devices that may cause interference.
- **Cable Integrity:** Periodically inspect the Ethernet cable connecting the outdoor unit to the PoE injector for any signs of wear or damage, especially if exposed to outdoor elements.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power Indicator Light	Power adapter or cable issue; power outlet problem.	Check power connections. Ensure the power adapter is securely plugged into the PoE injector and the outlet. Try a different outlet.
No Signal / Weak Signal (MC889)	Poor outdoor unit placement; SIM card issue; network outage.	Adjust the outdoor unit's position for better signal. Reinsert the SIM card. Check with your mobile operator for network status.
No Internet Connection	No cellular signal; incorrect APN settings; T3000 not receiving data from MC889.	Verify MC889 signal indicator. Check APN settings in the router's web interface. Ensure Ethernet cable between PoE injector and T3000 is secure. Reboot both units.
Wi-Fi Not Visible / Cannot Connect	Wi-Fi disabled; incorrect password; router malfunction.	Ensure Wi-Fi is enabled in the router's web interface. Verify Wi-Fi password. Reboot the T3000 router.
Slow Internet Speed	Weak cellular signal; network congestion; too many connected devices; Wi-Fi interference.	Check MC889 signal strength. Reduce number of active devices. Optimize T3000 placement. Consider changing Wi-Fi channels.

If problems persist after attempting these solutions, please contact ZTE customer support or your vendor.

9. SPECIFICATIONS

Feature	Detail
Model Name	ZTE MC889 5G + T3000
Brand	ZTE
Product Dimensions	19 x 11 x 4 cm; 2.4 kg
Connectivity Technology	Wi-Fi, 5G Cellular
Wireless Communication Standard	802.11ac (Wi-Fi 6 compatible)
Frequency Band Class	Dual-Band
Special Features	Access Point Mode, MIMO, LAN, 1000Mbps
Outdoor Unit (MC889)	5G CPE, Weatherproof (IP rating not specified but implied by "Outdoor")
Indoor Router (T3000)	Wi-Fi 6 Router

10. WARRANTY AND SUPPORT

Your ZTE MC889 5G + T3000 WiFi 6 Outdoor 5G Router is covered by a manufacturer's warranty. The specific terms and duration of the warranty may vary by region and retailer. Please refer to the warranty card included in your package or contact your point of purchase for detailed warranty information.

For technical support, troubleshooting assistance, or to inquire about service, please visit the official ZTE website or contact their customer service hotline. Keep your product's serial number and proof of purchase readily available when seeking support.

