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> MOFINETWORK MOFI5500-5GXeLTE-RM520 4G LTE 5G Cellular Router | Compatible with Verizon, AT&T, T-Mobile, and More User Manual

MOFINETWORK MOFI5500-5GXeLTE-RM520

MOFINETWORK MOFI5500-5GXeLTE-RM520 4G LTE 5G Cellular Router User Manual

Model: MOFI5500-5GXeLTE-RM520

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your MOFINETWORK MOFI5500-5GXeLTE-RM520 4G LTE 5G Cellular Router. This enterprise-grade router is designed for high-performance connectivity, supporting AX3000 speeds, 5G NR (SA/NSA), and 4G LTE networks. It features a rugged metal case, detachable antennas, and advanced networking capabilities such as Band Lock, VPN Support, ZeroTier Certification, and IP Pass-Through.

SETUP GUIDE

1. What's in the Box

Before you begin, ensure all components are present:

- MOFINETWORK MOFI5500-5GXeLTE-RM520 Cellular Router
- 4 x Cellular Antennas
- 4 x Wi-Fi Antennas
- Ethernet Cable
- 3.5AMP Power Supply
- SIM Card Adaptor

2. Hardware Overview

Familiarize yourself with the router's ports and indicators.



Figure 1: Front view of the MOFI5500-5GxLTE-RM520 router with all eight antennas installed. This image displays the robust design and multiple antenna ports for optimal signal reception.



Figure 2: Rear panel of the MOFI5500-5GxLTE-RM520 router, highlighting the Console port, four Gigabit LAN ports, one Gigabit WAN port, Reset button, SD card slot, USB port, DC power input, and antenna connectors.



Figure 3: Side view of the MOFI5500-5GxLTE-RM520 router, illustrating the SIM card slot (SIM #1), USB port, SD card slot, and primary antenna connectors. This view is crucial for SIM card installation.

3. Antenna Installation

Carefully screw the four cellular antennas and four Wi-Fi antennas into their respective connectors on the router. Ensure they are finger-tight to establish a secure connection. The router is designed with detachable antennas for optimal signal reception and flexibility.

4. SIM Card Installation

The MOFI5500-5GxLTE-RM520 supports dual SIM cards for enhanced reliability and failover capabilities. Locate the SIM card slot(s) on the side of the router (refer to Figure 3). Insert your activated Nano-SIM card(s) into the slot(s) until it clicks into place. Use the provided SIM card adaptor if your SIM card is a different size.

5. Power Connection

Connect the provided 3.5AMP power supply to the DC IN port on the rear of the router, then plug the power adapter into a standard electrical outlet. The router will power on automatically.

6. Initial Configuration

Once powered on, the router will begin its boot sequence. Allow a few minutes for the device to initialize. You can connect to the router via Wi-Fi using the default SSID and password found on the label on the bottom of the device, or via an Ethernet cable connected to one of the LAN ports.

OPERATING INSTRUCTIONS

1. Accessing the Web Interface

To manage your router settings, open a web browser and navigate to the router's default IP address (e.g., <http://192.168.10.1>). Enter the default username and password, typically found on the router's label or in the quick start guide. It is recommended to change the default login credentials for security purposes.

2. Network Connectivity

The MOFI5500-5GxLTE-RM520 provides high-speed internet access via 5G NR (SA/NSA) and 4G LTE cellular networks. It supports AX3000 Wi-Fi speeds and features four Gigabit LAN ports and one Gigabit WAN port for wired connections. The router automatically prioritizes the best available cellular signal.

3. Advanced Features

- **Band Lock:** Allows users to lock the router to specific cellular bands for optimized performance in certain areas.
- **VPN Support:** Supports various VPN protocols for secure remote access and data encryption.
- **Zerotier Certification:** Enables seamless integration with ZeroTier networks for simplified network management.
- **IP Pass-Through:** Allows the router to pass the public IP address directly to a connected device, useful for specific network configurations.
- **Failover Protection:** Automatically switches between primary and secondary SIM cards or WAN connections in case of an outage, ensuring continuous connectivity.
- **Wireless Repeater Mode:** Extends the range of an existing Wi-Fi network, boosting signal strength for larger coverage areas in homes, RVs, or offices.

MAINTENANCE

1. Firmware Updates

Regularly check for and install firmware updates through the router's web interface. Firmware updates provide performance improvements, security enhancements, and new features. Refer to the MOFINETWORK support website for the latest firmware versions and instructions.

2. Cleaning

Keep the router clean by gently wiping its exterior with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials. Ensure ventilation holes are free from dust and obstructions to prevent overheating.

3. Antenna Care

Ensure antennas are securely attached and positioned for optimal signal. Avoid bending or applying excessive force to the antennas. If an antenna is damaged, it can be replaced due to their detachable design.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Internet Connection	SIM card not activated or improperly inserted; no cellular signal; incorrect APN settings.	Verify SIM card activation and insertion. Check cellular signal strength. Configure APN settings via the web interface according to your carrier's specifications. Restart the router.
Slow Internet Speed	Weak cellular signal; network congestion; outdated firmware.	Relocate the router to an area with better signal. Check for and install firmware updates. Consider using Band Lock to optimize signal.

Problem	Possible Cause	Solution
Cannot Access Web Interface	Incorrect IP address; network connectivity issue; forgotten password.	Ensure your device is connected to the router's network. Verify the router's IP address. Try a different browser. If password is forgotten, perform a factory reset (note: this will erase all custom settings).
Wi-Fi Signal Issues	Interference; router placement; antenna orientation.	Place the router in a central location, away from obstructions and interference sources. Adjust Wi-Fi antenna orientation. Utilize Wireless Repeater Mode if needed.

SPECIFICATIONS

Feature	Detail
Model Name	MOFI5500-5GXeLTE-RM520
Manufacturer	MOFINETWORK
Connectivity Technology	5G, Ethernet, LTE, Wi-Fi
Cellular Module	RM520 (SDX62 chipset)
5G NR Downlink Speed	Up to 2.5 Gbps
4G LTE Speed	Up to 1 Gbps
Wireless Communication Standard	802.11ac (AX3000 speeds)
Frequency Band Class	Dual-Band
Ethernet Ports	4 x Gigabit LAN, 1 x Gigabit WAN
SIM Card Support	Dual SIM (Nano-SIM)
Special Features	Band Lock, VPN Support, Zerotier Certification, IP Pass-Through, Failover Protection, Wireless Repeater Mode
Item Weight	3 pounds
Compatible Devices	Gaming Console, Personal Computer, Security Camera, Tablet
Recommended Uses	Business, Gaming, Home, RV

WARRANTY AND SUPPORT

MOFINETWORK provides a standard 1-year warranty for the MOFI5500-5GXeLTE-RM520 router, covering manufacturing defects and hardware malfunctions under normal use. For detailed warranty terms and conditions, please refer to the official MOFINETWORK website or contact customer support.

A dedicated U.S. based support team is available 7 days a week to assist with setup, troubleshooting, and optimization. For technical assistance, please contact MOFINETWORK customer support through their official channels.

For the latest information, drivers, and support resources, visit the official MOFINETWORK website:

www.mofinetwork.com

