MT7925

Generic MT7925 WiFi 7 Network Card User Manual

Model: MT7925

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Generic MT7925 WiFi 7 Network Card. This M.2 NGFF wireless adapter offers WiFi 7 (802.11be) connectivity with tri-band support (2.4GHz, 5GHz, 6GHz) and Bluetooth 5.3 capabilities, designed for Windows 10 and Windows 11 systems.

2. SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing any internal components.
- Handle the network card by its edges to avoid touching the gold connectors or sensitive components.
- Use appropriate anti-static precautions (e.g., anti-static wrist strap) to prevent electrostatic discharge (ESD) damage.
- Keep the device away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x MT7925 WiFi Card

4. SETUP AND INSTALLATION

4.1 Pre-installation Checklist

- Ensure your computer has an available M.2 NGFF slot (Key E).
- Confirm your operating system is Windows 10 or Windows 11 (64-bit).
- Download the latest drivers for the MT7925 from the manufacturer's or chipset provider's website onto a USB drive or accessible location before installation.

4.2 Physical Installation

The MT7925 network card is designed for M.2 NGFF Key E slots found in both desktop motherboards and

laptops.

Image: Front and back view of the MT7925 WiFi 7 network card, highlighting the Key E connector for installation.

1. Power off your computer and disconnect all cables.

2. Open your computer case (for desktop) or access the M.2 slot compartment (for laptop). Refer to your computer's manual for specific instructions.

3. Locate an available M.2 NGFF slot (Key E).

4. Carefully insert the MT7925 card into the M.2 slot at a slight angle.

5. Gently press down the card and secure it with the screw provided with your motherboard or laptop.

6. Connect the antenna cables (if applicable) to the corresponding 'Main' and 'Aux' connectors on the card.

7. Close your computer case or compartment.

8. Reconnect all cables and power on your computer.

Image: Illustration of M.2 slot availability for both desktop and laptop installations. The image indicates 'Available' and 'Unavailable' slots for clarity.

4.3 Driver Installation

1. After booting into Windows, open Device Manager.
2. Look for an unknown device or a network adapter with a yellow exclamation mark under 'Network adapters' or 'Other devices'.
3. Right-click on the device and select 'Update driver'.
4. Choose 'Browse my computer for drivers' and navigate to the folder where you saved the downloaded drivers.
5. Follow the on-screen prompts to complete the driver installation.
6. Restart your computer if prompted.

5. OPERATING INSTRUCTIONS

5.1 Connecting to Wi-Fi

Once drivers are installed, the MT7925 card will enable Wi-Fi functionality. You can connect to available networks:

- Click the Wi-Fi icon in the Windows taskbar.

- Select your desired network from the list.

- Enter the network password if required and click 'Connect'.

- The MT7925 supports tri-band operation (2.4GHz, 5GHz, 6GHz) for optimal performance.
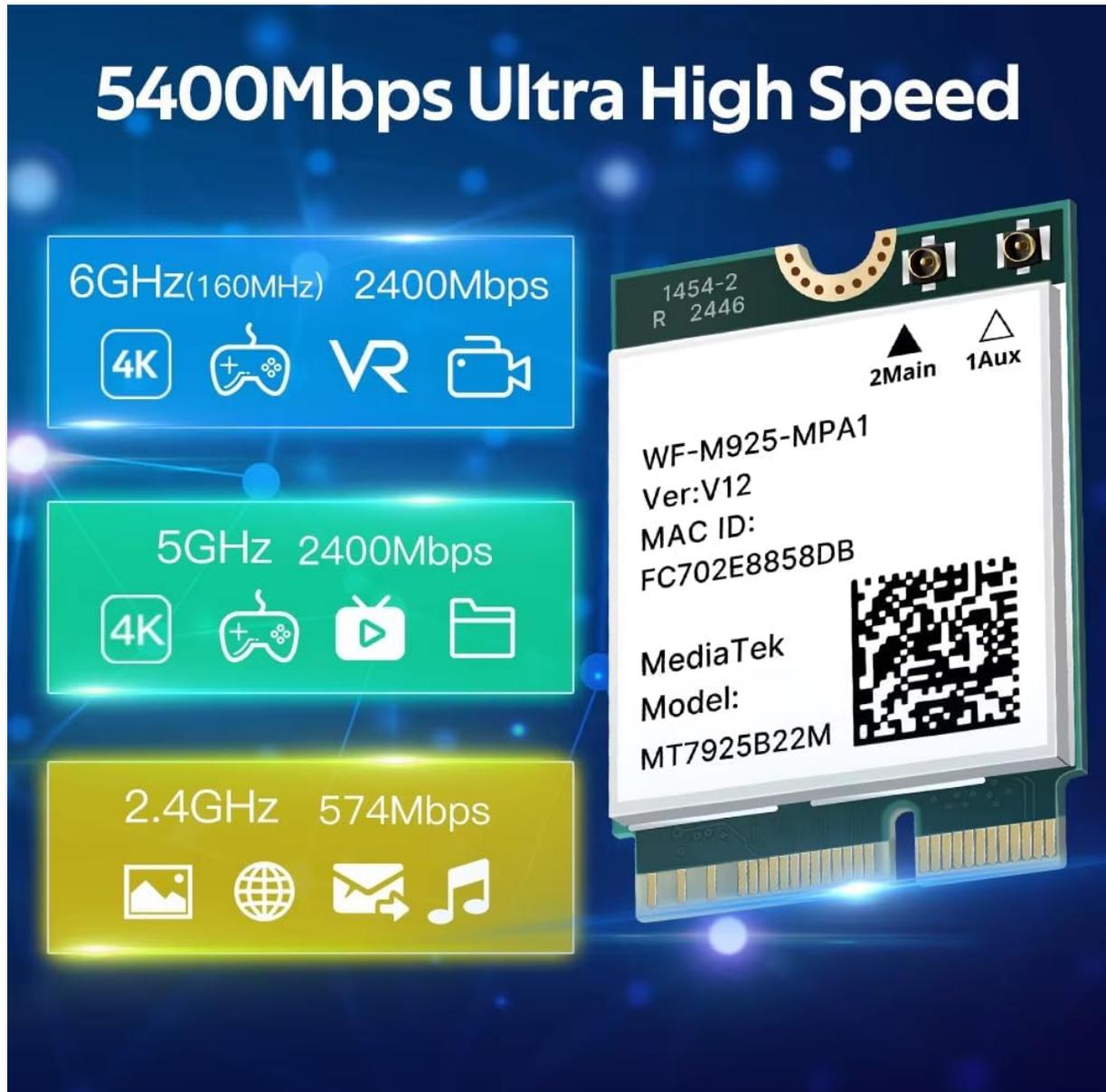

Image: Visual representation of the MT7925's data rates across different frequency bands: 6GHz (2400Mbps), 5GHz (2400Mbps), and 2.4GHz (574Mbps).

5.2 Bluetooth Pairing

The MT7925 also provides Bluetooth 5.3 connectivity.

- Go to Windows Settings > Devices > Bluetooth & other devices.

- Ensure Bluetooth is turned 'On'.

- Click 'Add Bluetooth or other device' and select 'Bluetooth'.

- Put your Bluetooth device into pairing mode.

- Select your device from the list and follow any on-screen prompts to complete pairing.

Image: An illustration demonstrating the compatibility of the upgraded Bluetooth 5.3 with various devices, including printers, keyboards, gamepads, mice, headsets, speakers, cell phones, and tablets.

5.3 Operating System Compatibility

The MT7925 network card is compatible with 64-bit versions of Windows 10 and Windows 11.

Image: Logos for Windows 10 and Windows 11, confirming support for 64-bit versions of these operating systems.

6. Maintenance

- **Driver Updates:** Regularly check for updated drivers on the manufacturer's or chipset provider's website to ensure optimal performance and security.
- **Physical Inspection:** Periodically inspect the card and antenna connections (if external) for any signs of damage or loose connections.
- **Cleaning:** If necessary, gently clean the card with compressed air to remove dust buildup. Ensure the computer is powered off and unplugged before cleaning.

7. Troubleshooting

7.1 No Wi-Fi or Bluetooth Connectivity

- **Check Device Manager:** Verify that the MT7925 card is recognized and has no error symbols. Reinstall drivers if necessary.
- **Physical Connection:** Ensure the card is securely seated in the M.2 slot and any antenna cables are properly connected.

- **BIOS/UEFI Settings:** Some motherboards may require enabling the M.2 slot or Wi-Fi/Bluetooth functionality in the BIOS/UEFI settings.

7.2 Slow Wi-Fi Speeds

- **Driver Update:** Ensure you have the latest drivers installed.
- **Router Placement:** Move closer to your Wi-Fi router or ensure there are no significant obstructions.
- **Frequency Band:** Connect to the 5GHz or 6GHz band for higher speeds, if available and supported by your router.
- **Interference:** Other electronic devices can cause interference. Try changing your router's Wi-Fi channel.

7.3 Bluetooth Device Not Pairing

- **Bluetooth On:** Confirm Bluetooth is enabled in Windows settings.
- **Device Pairing Mode:** Ensure your Bluetooth device is in pairing mode.
- **Distance:** Keep the Bluetooth device close to your computer during pairing.
- **Interference:** Minimize other wireless devices nearby during pairing.

8. SPECIFICATIONS

Model	MT7925
Wireless Standard	WiFi 7 (802.11be)
Data Transfer Rate	Up to 5400Mbps (2400Mbps on 6GHz, 2400Mbps on 5GHz, 574Mbps on 2.4GHz)
Frequency Bands	2.4GHz, 5GHz, 6GHz (Tri-Band)
Bluetooth Version	Bluetooth 5.3
Interface	M.2 NGFF (Key E)
Compatible Operating Systems	Windows 10 (64-bit), Windows 11 (64-bit)
Wireless Protocols	802.11n, 802.11ax (WiFi 6), 802.11a/g, 802.11ac, 802.11be (WiFi 7)
Hardware Interface	802.11 ac/b/g/n
Item Weight	0.48 ounces (13.61 g)

9. WARRANTY AND SUPPORT

This product is sold under the 'Generic' brand. For specific warranty terms and conditions, please refer to the seller or retailer from whom you purchased this product. Keep your proof of purchase for any warranty claims.

For technical support, driver updates, or further assistance, please visit the website of the chipset manufacturer (MediaTek) or contact your product vendor.