

## MERCUSYS MR90X

# MERCUSYS MR90X AX6000 Wi-Fi 6 Router User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your MERCUSYS MR90X AX6000 8-Stream Wi-Fi 6 Router. The MR90X is designed to deliver high-speed, reliable wireless connectivity using the latest Wi-Fi 6 technology.

Key features of the MR90X include:

- **Optimal Wi-Fi 6 Speeds:** Up to 6 Gbps for efficient browsing, streaming, and downloading.
- **2.5 Gbps Multi-Gig Port:** Breaks through 1G bottlenecks for peak device performance.
- **Enhanced Capacity:** Supports 4x4 MU-MIMO and OFDMA to reduce congestion and improve average throughput for multiple devices.
- **Extended Coverage:** Eight multi-directional high-gain antennas with Beamforming technology ensure strong Wi-Fi signals throughout your home.
- **Advanced Security:** WPA3 provides improved Wi-Fi security.
- **Eco-Friendly Power Saving:** Target Wake Time (TWT) reduces power consumption for mobile and IoT devices.
- **Smart Connect:** Intelligently selects the best available band for each connected device.



Figure 1: Front view of the MERCUSYS MR90X AX6000 Wi-Fi 6 Router, showcasing its eight external antennas and sleek design.

## 2. PACKAGE CONTENTS

Verify that your package contains the following items. If any item is missing or damaged, please contact your retailer.

- MERCUSYS MR90X AX6000 Wi-Fi 6 Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

## 3. HARDWARE OVERVIEW

Familiarize yourself with the ports and buttons on your router.



Figure 2: Rear panel of the MERCUSYS MR90X router, illustrating the various ports and buttons for connectivity and control.

### 3.1. Rear Panel

- **POWER Port:** Connect the provided power adapter here.
- **RESET/WPS Button:** Press and hold for approximately 6 seconds to reset the router to factory default settings. Press briefly to activate WPS (Wi-Fi Protected Setup).
- **WAN/LAN 2.5Gbps Port:** Connect to your modem for internet access or use as a LAN port for high-speed wired devices.
- **WAN/LAN 1Gbps Port:** Connect to your modem for internet access or use as a LAN port.
- **LAN1, LAN2 Ports:** Connect to your wired devices such as computers, smart TVs, or gaming consoles.



Figure 3: A close-up view of the 2.5 Gbps Multi-Gig port, demonstrating its capability for high-speed wired connections.

### 3.2. LED Indicators

- **Solid Green:** The router is operating normally.
- **Flashing Green:** The router is starting up or performing a WPS connection.
- **Solid Red:** No internet connection.

## 4. SETUP GUIDE

Follow these steps to set up your MERCUSYS MR90X router.

### 4.1. Connect the Hardware

1. **Power Off:** Unplug your modem and remove the backup battery if it has one.
2. **Connect Modem:** Connect the Ethernet cable from your modem's Ethernet port to the **WAN/LAN 2.5Gbps** or **WAN/LAN 1Gbps** port on your MR90X router.
3. **Power On Modem:** Plug in and power on your modem. Wait approximately 2 minutes for it to restart.

4. **Power On Router:** Connect the provided power adapter to the POWER port on the router and plug it into a power outlet. Wait for the LED indicator to turn solid green.
5. **Connect Devices (Optional):** Connect your computer or other wired devices to the LAN ports (LAN1, LAN2) on the router using Ethernet cables.

## 4.2. Configure the Router

You can configure the router using a web browser or the MERCUSYS app.

### 4.2.1. Via Web Browser

1. **Connect to Router:** Connect your computer to the router via Ethernet cable or wirelessly. The default Wi-Fi name (SSID) and password are printed on the label at the bottom of the router.
2. **Access Web Interface:** Open a web browser and type **mwlogin.net** or **192.168.1.1** into the address bar. Press Enter.
3. **Create Login Password:** Create a strong login password when prompted.
4. **Follow Setup Wizard:** The Quick Setup wizard will guide you through the initial configuration steps, including setting your internet connection type and Wi-Fi network name/password.

### 4.2.2. Via MERCUSYS App

1. **Download App:** Download the MERCUSYS app from the App Store or Google Play.
2. **Connect to Router:** Connect your mobile device to the router's default Wi-Fi network (SSID and password on the router label).
3. **Launch App:** Open the MERCUSYS app and follow the on-screen instructions to set up your router.

## 5. OPERATING INSTRUCTIONS

Once your router is set up, you can manage your network and connect devices.

### 5.1. Connecting Devices to Wi-Fi

To connect a device to your Wi-Fi network:

1. On your device, go to Wi-Fi settings.
2. Select your Wi-Fi network name (SSID) from the list.
3. Enter your Wi-Fi password when prompted.

### 5.2. Managing Your Network

Access the web management interface (mwlogin.net) or the MERCUSYS app to:

- Change Wi-Fi settings (SSID, password, security type).
- Set up a guest network.
- Configure parental controls.
- Manage connected devices.
- Update firmware.



Figure 4: An overview of the MERCUSYS MR90X's advanced features, including Wi-Fi 6 technology, multi-gigabit port, WPA3 security, and app management capabilities.

## 6. MAINTENANCE

### 6.1. Firmware Updates

Regularly updating your router's firmware ensures optimal performance, security, and access to new features. You can check for and install updates via the router's web management interface or the MERCUSYS app.

### 6.2. Factory Reset

If your router is not functioning correctly, or if you forget your login password, you can perform a factory reset. With the router powered on, press and hold the **RESET/WPS** button on the rear panel for approximately 6 seconds until the LED indicator flashes rapidly. The router will restart with factory default settings.

### 6.3. Physical Cleaning

Keep the router in a well-ventilated area. Periodically clean the router’s exterior with a soft, dry cloth to prevent dust buildup, which can affect performance.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter.

### 7.1. No Internet Access

- Ensure your modem is powered on and functioning correctly.
- Check all Ethernet cable connections between the modem and the router, and between the router and your devices.
- Verify the LED indicator on the router is solid green. If it's red, check your modem connection.
- Restart your modem and router.
- Contact your Internet Service Provider (ISP) to confirm your internet service is active.

### 7.2. Weak Wi-Fi Signal or Dropped Connections

- Relocate the router to a central location in your home, away from obstructions and interference sources (e.g., cordless phones, microwaves, large metal objects).
- Adjust the router's antennas for optimal coverage.
- Ensure your devices are within the router's Wi-Fi range.
- Update your router's firmware to the latest version.

### 7.3. Cannot Access Web Management Page

- Ensure your device is connected to the router’s network (wired or wireless).
- Verify that you are typing **mwlogin.net** or **192.168.1.1** correctly in the browser’s address bar.
- Clear your browser's cache and cookies, or try a different browser.
- Temporarily disable any firewall or antivirus software on your computer.
- If the issue persists, perform a factory reset on the router.

## 8. SPECIFICATIONS

| Feature                         | Detail                                                 |
|---------------------------------|--------------------------------------------------------|
| Model Name                      | MR90X                                                  |
| Wireless Communication Standard | 802.11a, 802.11ac, 802.11ax, 802.11b, 802.11g          |
| Frequency Band Class            | Dual-Band (implied by AX6000, 8-Stream, Smart Connect) |
| Antenna Type                    | Fixed, 8x Multi-directional High-Gain Antennas         |
| Connectivity Technology         | Ethernet, Wi-Fi                                        |
| Ports                           | 1x 2.5 Gbps WAN/LAN, 1x 1 Gbps WAN/LAN, 2x 1 Gbps LAN  |
| Security Protocol               | WPA3                                                   |
| Processor                       | Robust Quad-core Processor (1.6 GHz)                   |

| Feature                | Detail                                              |
|------------------------|-----------------------------------------------------|
| Dimensions (L x W x H) | 8.2 x 6.8 x 1.6 inches (20.8 x 17.3 x 4.1 cm)       |
| Item Weight            | 7 ounces (0.2 Kilograms)                            |
| Special Feature        | WPS, MU-MIMO, OFDMA, Beamforming, TWT, BSS Coloring |

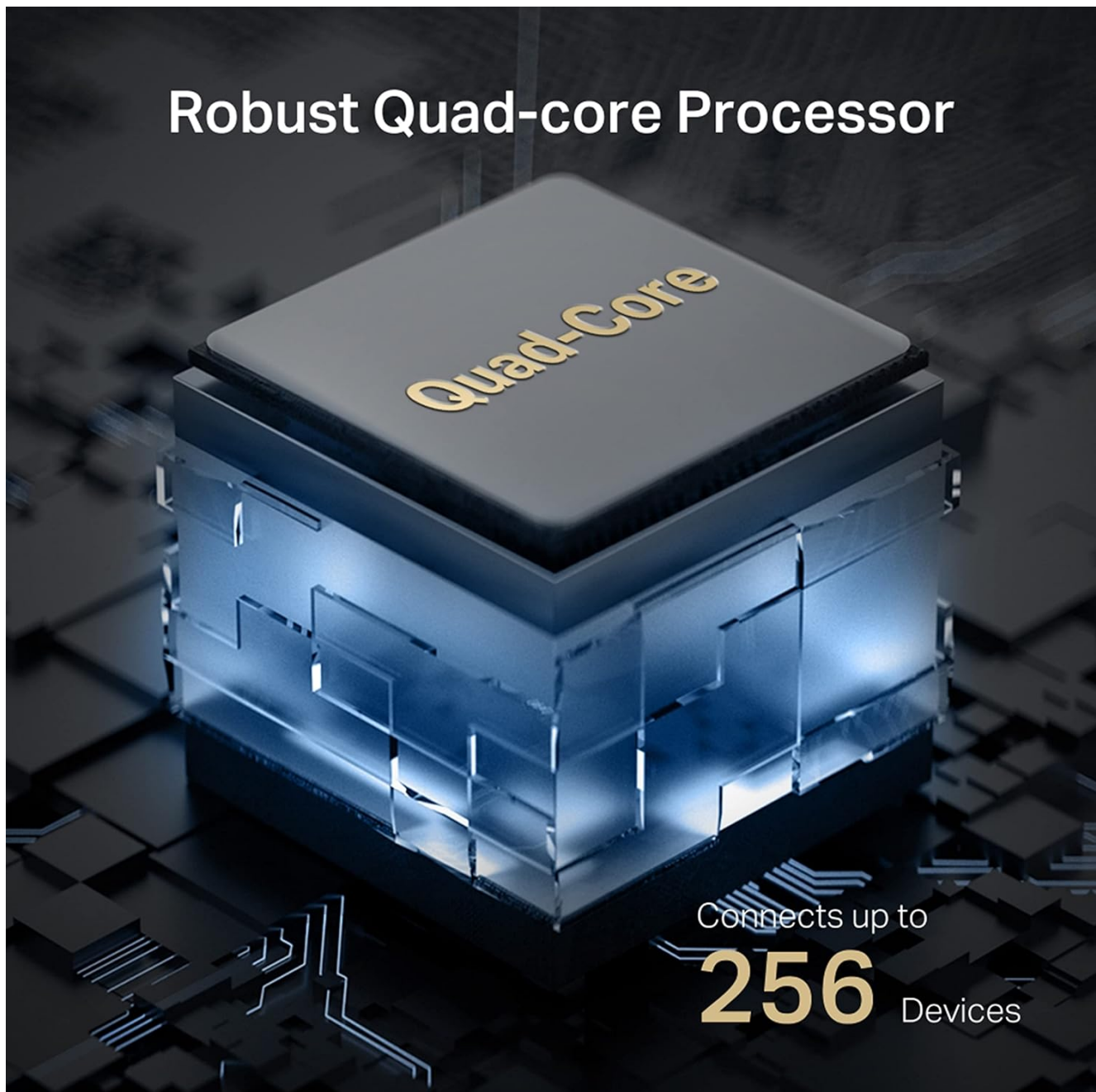


Figure 5: Visual representation of the router's robust Quad-core processor, highlighting its internal processing power.

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please visit the official MERCUSYS website or contact your local MERCUSYS support team. You can find contact details and frequently asked questions (FAQs) on their support pages.

**Website:** [www.mercusys.com](http://www.mercusys.com)

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**