

## MRC-MR80X

Mercusys MR80X AX3000 Dual Band WiFi 6 Router

### Product Overview

Mercusys MR80X AX3000 Dual Band WiFi 6 Router. The Mercusys MRC-MR80X AX3000 router delivers reliable WiFi 6 speeds for gaming, streaming, and smart home connectivity. Its dual-band design, multiple antennas, and advanced technologies ensure consistent performance across multiple devices. Easy to set up and secure, this router is ideal for modern South African homes and offices seeking high-speed, stable internet.





## Specifications

### Overview Summary

#### Mercusys MRC-MR80X AX3000 Dual Band WiFi 6 Router

The Mercusys MRC-MR80X AX3000 router delivers high-speed WiFi 6 connectivity across your home or office, ensuring smooth streaming, online gaming, and fast downloads. With dual-band technology, it balances multiple devices efficiently while providing stable coverage in medium to large spaces.

Equipped with advanced OFDMA and MU-MIMO technologies, this router reduces latency and increases network capacity, ideal for households with multiple smart devices. Its intuitive setup and management features make it perfect for users seeking hassle-free, high-performance networking.

**Performance tier:**High-performance

**Uses:**Home networking, streaming, gaming, video conferencing, smart home devices

### Description

The MRC-MR80X router combines the latest WiFi 6 technology with dual-band performance, delivering consistent speeds and coverage throughout your home or office. It supports multiple high-bandwidth devices simultaneously, reducing latency and buffering during gaming or video streaming.

Its compact and modern design allows for flexible placement, while the four high-gain antennas extend signal coverage. Setup is intuitive through the Mercusys app, which allows network monitoring, parental controls, and guest network setup in minutes. The router ensures advanced security with WPA3 encryption and intelligent traffic management for uninterrupted connectivity.

### Features

- OPTIMAL WIFI 6 SPEEDS - Optimal WiFi 6 speeds reaching up to 3 Gbps for faster browsing, streamings, and downloading, all at the same time.
- MORE DEVICES, MORE FUN - Supports MU-MIMO and OFDMA to reduce congestion and quadruple the average throughput.
- WiFi THAT GOES FARTHER - 4x multi-directional high-gain antennas with Beamforming boost stable connections throughout your home for strong WiFi signals in every corner
- OVERALL SECURITY PROTECTION - The latest WPA3 provides improved WiFi security
- GIGABIT WIRED CONNECTIONS - Make full use of your internet access and transfer data at dizzying speeds for peak performance

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### Product Specification Sheet

- ECO-FRIENDLY POWER SAVING - Target Wake Time (TWT) reduces power consumption for your mobile and IoT devices during data transmissions
- LESS WIFI INTERFERENCE - Minimizes the interference from neighboring signals to improve transmission efficiency with BSS coloring
- MART CONNECT - Intelligently chooses the best available band for each device

### Gigabit WiFi Connectivity, Always Up-to-Date

Doubling the bandwidth with 160 MHz channels, MR80X unlocks the limits of the previous channel width and provides next-level speeds for your devices. With WiFi 6 speeds up to 3 Gbps, finish large-file downloads in minutes and experience stunning 4K streaming without lag.

### Connect 4x More Devices, All Simultaneously

Streaming or gaming on multiple devices brings more fun without dragging down performance. MR80X supports OFDMA and MU-MIMO1 to power up your WiFi by allowing multiple clients to transmit at the same time. This delivers 4x greater network capacity and efficiency in traffic-dense environments.

### Reduce the Interference from Your Neighbors' WiFi

Interference from nearby wireless networks may cause issues with your signal, especially when you live in an apartment or close to your neighbors. MR80X supports BSS Coloring to mark the data frames from different APs. This helps minimize the signal interference from your neighbors to improve transmission efficiency.

### Eco-Friendly Power Saving

Target Wake Time reduces power consumption for your mobile and IoT devices during data transmissions to extend your devices' battery life.

### More Targeted Signals that Penetrate Walls

Four external high-gain antennas armed with integrated signal amplifiers provide strong WiFi signals that reach farther. Beamforming detects your connected devices and concentrates wireless signal strength towards them, making your connections more stable.

### The Latest WPA3 Protects Your Personal Network

The latest security standard, WPA3, offers improved comprehensive WiFi protection to defend your devices and private information against brute-force attacks.

### Protect Against Brute-Force Attacks

Delivers robust protection even when you are using a weak password

### Advanced Forward Secrecy

Prevents data from being snooped even if a cracker compromises a session's secret keys

### Unbreakable 128-Bit Encryption

Creates an active defense against security threats and intruders

### Smart Connect Assigns Devices to the Best Band Automatically

Smart Connect allows each of MR80X's wireless bands to use the same wireless settings. MR80X balances network demand and assigns your devices to the band with the best signal and speed. This keeps your devices always running optimally when you walk around your home.

### Powerful Qualcomm Chipset Minimizes Buffering and Lag

Powered by a highly integrated Qualcomm WiFi 6 chipset that combines a 64-bit dual-core CPU and an advanced 12-thread programmable network processor, MR80X enables stable connections for up to 256 devices.<sup>5</sup> Your network can now handle massive data throughput, allowing numerous bandwidth-intensive tasks to run smoothly at the same time.

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Easy Setup with MERCUSYS App

The MERCUSYS app provides the easiest way for you to set up in minutes and manage your WiFi at home or away through your iOS or Android devices.

Parental Controls

Establish appropriate policies to protect children for responsible, safe internet access

Guest Network

Allows guests to join your WiFi network-all while protecting your privacy-making sharing easy and secure

Quality of Service

Prioritizes devices you select to perform better

Router Mode

Creates a wireless network for all your WiFi devices

Access Point Mode

Extends a wired network and makes it wireless

UES Stability Test >= 1500 hours

Working in a device-rich environment

Power ON/OFF Test >= 10,000 test cycles

Cumulative number over 3 scenarios

Extreme Environment Test >= 7200 hours

Devices work continuously in extreme environments

Vibration Test >= 100 cycles

Cumulative testing with multiple devices for product endurance

Drop Test >= 30 cycles

Dropping from 6 surfaces 80 cm high to a concrete floor

Memory Stress Test >= 900,000 cycles

Consecutive memory read/write tests

What's in the Box

- Mercusys MRC-MR80X Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

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| Specifications |           |
|----------------|-----------|
| Product Code   | MRC-MR80X |
| Wireless       |           |

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### Product Specification Sheet

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Wireless Standards</b>    | Compatible with 802.11ax/ac/a/b/g/n Wi-Fi standards |
| <b>WiFi Speeds</b>           | 2402 Mbps (5 GHz) + 574 Mbps (2.4 GHz)              |
| <b>Reception Sensitivity</b> | 11g 6Mbps: -97dBm                                   |
|                              | 11g 54Mbps: -79dBm                                  |
|                              | 11n HT40 MCS7:-74dBm                                |
|                              | 11n HT20 MCS7:-77dBm                                |
|                              | 11a 6Mbps: -97dBm                                   |
|                              | 11a 54Mbps: -79dBm                                  |
|                              | 11ac VHT20 MCS8:-75dBm                              |
|                              | 11ac VHT40 MCS9:-71dBm                              |
|                              | 11ac VHT80 MCS9:-67dBm                              |
|                              | 11ax VHT20 MCS11:-67dBm                             |
|                              | 11ax VHT40 MCS11:-64dBm                             |
|                              | 11ax VHT80 MCS11:-61dBm                             |
| <b>Transmission Power</b>    | 2.4 GHz < 20dBm (EIRP)                              |
|                              | 5 GHz < 23dBm (band1, band2)                        |
|                              | 5 GHz < 30dBm (band3)                               |
| <b>Wireless Security</b>     | WEP, WPA / WPA2-Personal, WPA2 / WPA3-Personal      |
| <b>Wireless Functions</b>    | Enable/Disable Wireless Radio, WMM                  |
| <b>Hardware</b>              |                                                     |
| <b>Dimensions</b>            | 8.2 x 6.8 x 1.6 in                                  |
|                              | (208.8 x 171.6 x 41.7 mm)                           |
| <b>Interfaces</b>            | 1x Gigabit WAN Port + 3x Gigabit LAN Ports          |
| <b>Button</b>                | Reset/WPS Button                                    |
| <b>Antenna Type</b>          | 4x 5 dBi Fixed Omni-Directional Antennas            |
| <b>Software</b>              |                                                     |
| <b>WAN Type</b>              | Dynamic IP/Static IP/PPPoE/L2TP/PPTP                |
| <b>Management</b>            | Access Control                                      |
|                              | Local Management                                    |
|                              | Remote Management                                   |
| <b>NAT Forwarding</b>        | Port Forwarding, Port Triggering, UPnP, DMZ         |
| <b>Firewall Security</b>     | SPI Firewall, IP and MAC Address Binding            |
| <b>Guest Network</b>         | 2.4 GHz Guest Network, 5 GHz Guest Network          |
| <b>DHCP</b>                  | Server, DHCP Client List                            |
| <b>VPN Server</b>            | OpenVPN, PPTP supported                             |
| <b>Others</b>                |                                                     |

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### Product Specification Sheet

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| Package Contents | AX3000 Wi-Fi 6 Router MR80X                                          |
|                  | Power Adapter                                                        |
|                  | Quick Installation Guide                                             |
|                  | RJ45 Ethernet Cable                                                  |
| Environment      | Operating Temperature: 0degreesC~40degreesC (32degreesF~104degreesF) |
|                  | Operating Humidity: 10%~90% Non-Condensing                           |
|                  | Storage Humidity: 5%~90% Non-Condensing                              |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:** <https://www.comx.co.za/MRC-MR80X-Mercusys-MR80X-AX3000-Dual-Band-WiFi-6-Router-Buy-p-327230.php>

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