MERCUSYS®

Wi-Fi 6

2.5G
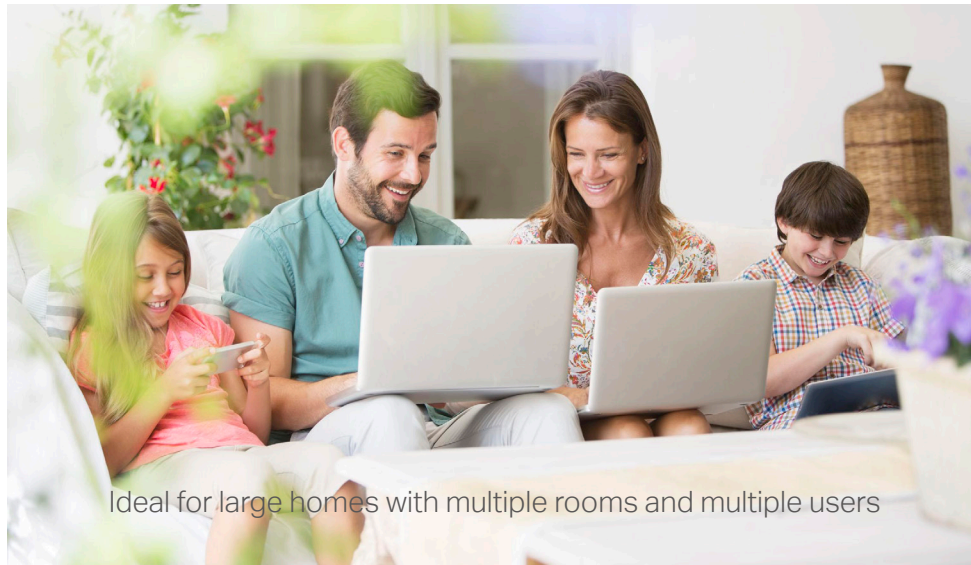**MULTI-GIGABIT PORT**

ISP Preset

TR-069

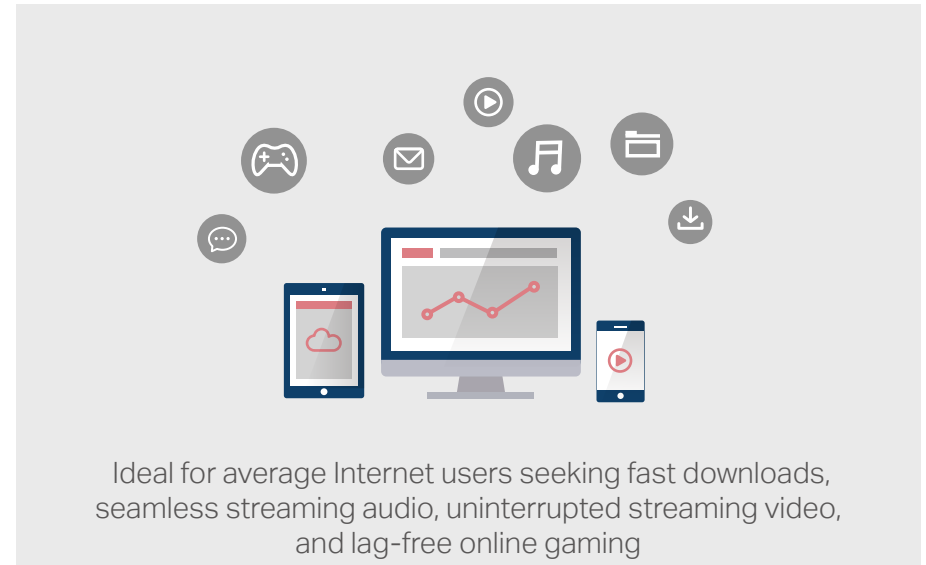# AX3000 Dual-Band Wi-Fi 6 Router
Model: MR85X

// Highlights

- Ultra-Fast Wi-Fi 6 Speeds up to 3 Gbps†

- Beamforming with High-Gain Antennas for Wider Coverage

- Robust Dual-Core Processor to Minimize Buffering and Lag

- Latest WPA3 Wireless Encryption△

Download on the App Store

GET IT ON Google Play

// Applications

Ideal for large homes with multiple rooms and multiple users

Ideal for average Internet users seeking fast downloads, seamless streaming audio, uninterrupted streaming video, and lag-free online gaming

// Features

Parental Controls
Establish appropriate policies to protect children with responsible, safe internet access

Guest Network
Provides a separate network for guests to ensure your security and privacy

Quality of Service
Prioritizes devices you select to perform better

Access Point Mode
Extends a wired network and makes it wireless

IPTV Supported
Supports IGMP Proxy/Snooping, Bridge, and Tag VLAN to optimize IPTV streaming

IPv6 Supported
Allows you to enjoy IPv6 services provided by your ISP and visit IPv6 websites
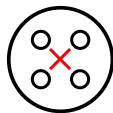
// Crank Up Your Wi-Fi to 6

The latest Wi-Fi 6 standard applies advanced technology designed to deliver more simultaneous connections, extend Wi-Fi range, and maintain reliably fast data transmissions, satisfying demands for high-performance wireless experiences.
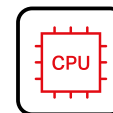
Faster Speeds | Lower Latency | Higher Capacity | Energy Efficient

3 Gbps Wi-Fi 6 Speeds[†]

Connect 4× More Devices[§]

Minimize Buffering and Lag

Eco-Friendly Power Saving[‡]

// Expansive Wi-Fi Range

Four powerful high-gain antennas armed with advanced wireless technology provide strong signals throughout your home. Beamforming detects your connected devices and concentrates wireless signal strength towards them, making your connections more stable.

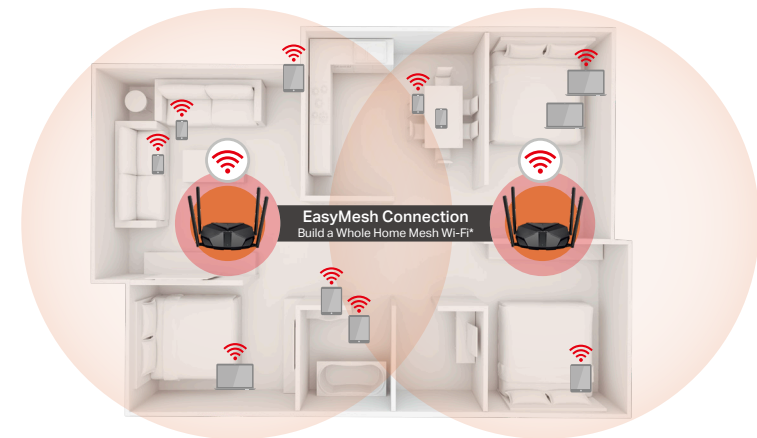MR85X with Beamforming   Regular Router without Beamforming

// EasyMesh-Compatible

MR85X is compatible with EasyMesh for a smooth whole home mesh Wi-Fi network, preventing drops and lag when switching signals. Enjoy uninterrupted streaming while roaming your house.*

EasyMesh Connection
Build a Whole Home Mesh Wi-Fi*

// Overall Security Protection

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

WPA3

// Smart Connect

Smart Connect combines the 2.4 GHz and 5 GHz bands into a single Wi-Fi SSID, allowing your devices to automatically select the best band with the strongest signal and fastest speed. This ensures seamless performance and keeps your devices running at their best.

MR85X

2.4 GHz
MR85X_2.4G

5 GHz
MR85X_5G

// Specifications

Hardware

Ports
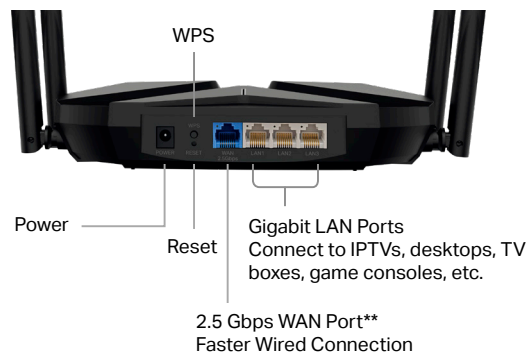1× 2.5 Gigabit WAN Port + 3× Gigabit LAN
Ports

Button
Reset Button
WPS Button

Dimensions (W x D x H)
209 × 171.7 × 42.4 mm
 (8.2 × 6.8 × 1.7 in)

Antennas
4× 5 dBi Fixed Omnidirectional Antennas

WPS

Power

Reset

Gigabit LAN Ports
Connect to IPTVs, desktops, TV
boxes, game consoles, etc.

2.5 Gbps WAN Port**
Faster Wired Connection

Wireless

Wireless
2402 Mbps (5 GHz) + 574 Mbps (2.4 GHz),
compatible with 11ax/ac/a/b/g/n Wi-Fi standards[†]
• OFDMA: Allows simultaneous data transmission to
and from several devices sharing one band,
satisfying high network capacity demands[‡]
• MU-MIMO: Transfers data to more devices
simultaneously, improving overall network
efficiency[‡]
• 160 MHz Channel: Doubles the speeds offered by
80 MHz channels for faster connections[‡]
• 1024-QAM: Packs more effective data at once to
achieve a 1.25× speed increase over 802.11ac
256-QAM[‡]
• Smart Connect: Intelligently chooses the best
available band for each device
• Access Point Mode: Extends a wired network and
makes it wireless

Wi-Fi Transmission Power
EU version: EIRP≤20dBm(2.4GHz), EIRP≤23dBm
(band1/band2), EIRP≤30dBm (band3)
US version: EIRP≤30dBm(2.4GHz), EIRP≤24dBm
(band2/band3), EIRP≤30dBm (band1/band4)

Wi-Fi Reception Sensitivity
 2.4G:
    11g 6Mbps : -97dBm
    11g 54Mbps: -79dBm
    11n HT20 MCS7:-78dBm
    11n HT40 MCS7:-75dBm
    11ax HE20 MCS11:-66.5dBm
    11ax HE40 MCS11:-65.5dBm
5G:
    11a 6Mbps: -95dBm
    11a 54Mbps:-76.5dBm
    11n HT20 MCS7:-76dBm
    11n HT40 MCS7:-73dBm
    11ac VHT20 MCS8:-71.5dBm
    11ac VHT40 MCS9:-67dBm
    11ac VHT80 MCS9:-63.5dBm
    11ax HE20 MCS11:-64.5dBm
    11ax HE40 MCS11:-63dBm
    11ax HE80 MCS11:-58.5dBm
    11ax HE160 MCS11:-56dBm

// Specifications

Wireless

Wireless Function
Enable/Disable Wireless Radio, WMM

Security Features
• Guest Network Access
• Wireless Security:
WPA-PSK/WPA2-PSK/WPA3-SAE△
• Firewall Protection
• VPN Support: OpenVPN, PPTP, L2TP, and
IPSec Server and Clients

Software

WAN Type
Dynamic IP/Static IP/PPPoE/L2TP/PPTP

DHCP
Server, DHCP Client List

NAT Forwarding
Port Forwarding, Port Triggering, UPnP, DMZ

Management
Local Management, Remote Management

Security
SPI Firewall, Access Control,
IP and MAC Address Binding

Guest Network
2.4 GHz Guest Network, 5 GHz Guest Network

Others

Package Contents
• AX3000 Wi-Fi 6 Router MR85X
• Power Adapter
• Quick Installation Guide
• RJ45 Ethernet Cable

Environment
• Operating Temperature:
0°C~40°C (32°F~104°F)
• Operating Humidity:
10%~90% Non-Condensing
• Storage Humidity:
5%~90% Non-Condensing

www.mercusys.com