

AX3000 Dual Band Wi-Fi 6 XPON Router

Model: MF80X



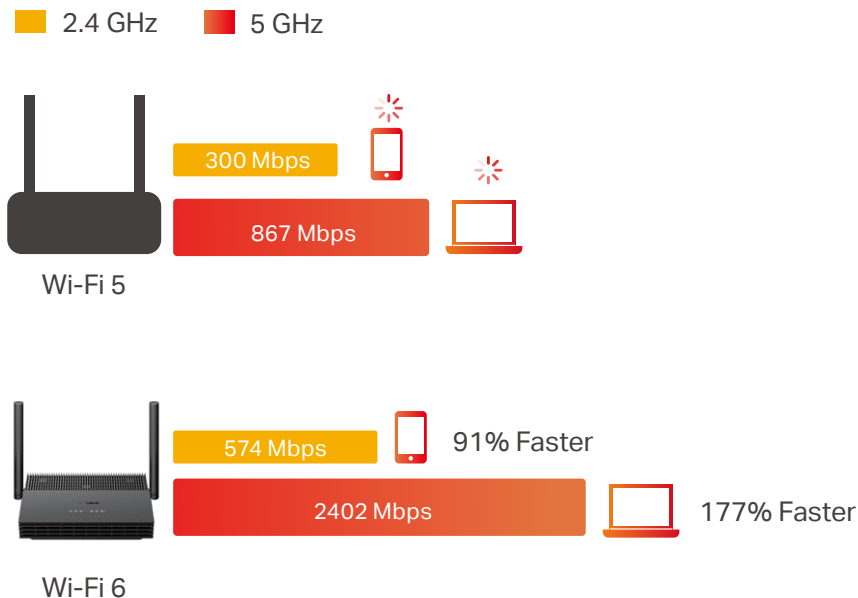
// Highlights

- 3000 Mbps Wi-Fi Speed†
- EPON + GPON Dual Mode
- MU-MIMO* OFDMA
- MERCUSYS App Control



// AX3000 Dual Band Wi-Fi

Equipped with Wi-Fi 6 technology, the MF80X achieves Wi-Fi speeds of up to 3 Gbps, significantly enhancing browsing, streaming, and downloading capabilities simultaneously.



MU-MIMO

Simultaneously transfers data to multiple devices, delivering performance that is twice as fast.*

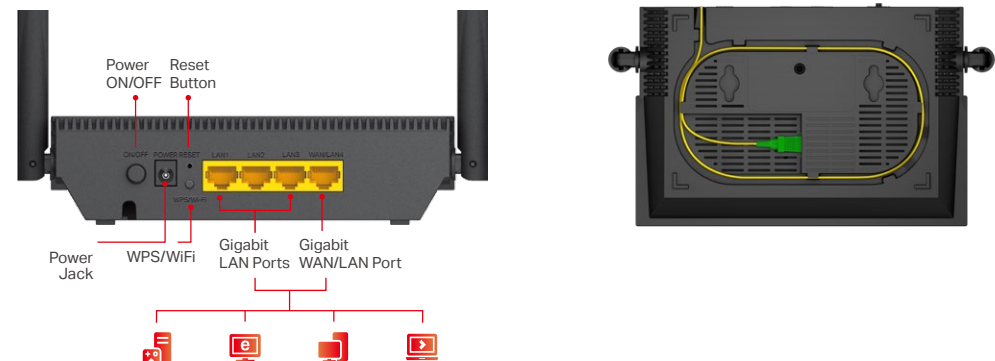


Remote Management

Supports the OMCI (ONU Management Control Interface) protocol, enabling centralized configuration and management.

// Super Gigabit Port

With Gigabit WAN/LAN ports and an SC/APC port, MF80X delivers fast and reliable connections up to 10× faster than fast Ethernet, ideal for game consoles, smart TVs, and computers.



Flexible Switching Mode

The EPON + GPON dual mode provides enhanced flexibility for fiber internet access.



Smart Signal Targeting

Beamforming technology intelligently identifies your connected devices and focuses Wi-Fi signals directly to them, ensuring stronger, more stable connections throughout your space.

// Specifications

Hardware

Ports
1 x 10 / 100 / 1000 Mbps WAN/LAN Port +
3 x 10 / 100 / 1000 Mbps LAN Ports +
1 x SC / APC Port

Power Adapter Output
12V/1.5A

Button
Reset Button
WPS/Wi-Fi Button
Power On/Off Button

Dimensions
170 × 112.5 × 45.8 mm

Antenna
2 External Antennas

Software

Upstream Rate
1.244 Gbps (GPON), 1.25 Gbps (EPON)*

Downstream Rate
2.488 Gbps (GPON), 1.25 Gbps (EPON)*

VPN Passthrough
PPTP, L2TP, IPSec

DHCP
Server, Client, DHCP Client List, Address
Reservation, DHCP Relay

NAT Forwarding
ALG, Virtual Server, Port Triggering, DMZ, UPnP

Security
SPI Firewall, Access Control, Service Filtering, IP
and MAC Address Binding, Defense "Denial of
Service (DoS), SYNFlooding, Ping of Death"

Guest Network
2.4 GHz Guest Network, 5 GHz Guest Network

Protocols
IPv4, IPv6

DDNS
Mercusys, NO-IP, DynDNS

Quality of Service
Hardware QoS, Flow Classification

Wireless Functions
Enable/Disable Wireless Radio, WMM, Wireless
Statistics

Advanced Functions
Parental Controls, Network Address
Translation(NAT), Port Mapping(Grouping), Static
Routing, DNS Relay, DDNS, IGMP V1/V2/V3

Management
Local Management, Remote management,
MERCUSYS app

VPN Server
PPTP VPN, IPSec VPN , OpenVPN

TX Beamforming

MU-MIMO

Airtime Fairness

// Specifications

Wireless

Standards

IEEE 802.11a/n/ac/ax 5 GHz

IEEE 802.11b/g/n/ax 2.4 GHz

Signal Rate

2402 Mbps on 5 GHz + 574 Mbps on 2.4 GHz†

Frequency

2.4 GHz, 5 GHz

Transmit Power

2.4 GHz: <20 dBm (EIRP)

5 GHz: <23 dBm (EIRP)

Wireless Security

WPA/WPA2/WPA3 Encryptions

Wireless Schedule

Support 2.4 GHz and 5 GHz Wireless Schedule

Others

System Requirements

Microsoft Edge, Firefox, Chrome, Safari, or other

JavaScript-enabled browser

*You are recommended to use the latest version

Package Contents

- 1x AX3000 Dual Band Wi-Fi 6 XPON Router (MF80X)
- 1x Power Adapter
- 1x Ethernet Cable
- Quick Installation Guide

Environment

- Operating Temperature: 0°C~40°C (32°F~104°F)
- Storage Temperature: -40°C~60°C (-40°F ~140°F)
- Operating Humidity: 10%~90% Non-Condensing
- Storage Humidity: 5%~90% Non-Condensing

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†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

*Use of MU-MIMO requires clients that also support MU-MIMO.

‡Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.

**MERCUSYS EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates.