

# AX3000 Dual Band Wi-Fi 6 VoIP XPON Router

Model: MF80Xv

## // Highlights

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

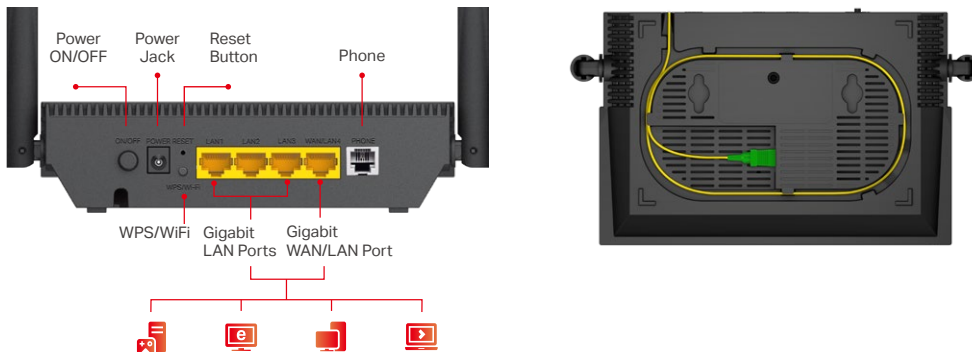


# Wi-Fi 6



## // Super Gigabit Port

With Gigabit WAN/LAN ports and an SC/APC port, MF80Xv delivers fast and reliable connections up to 10× faster than fast Ethernet, ideal for game consoles, smart TVs, and computers.



### Connect More Devices

Supports multiple devices simultaneously through OFDMA and MU-MIMO technology, ensuring that all connected devices receive data more efficiently.\*

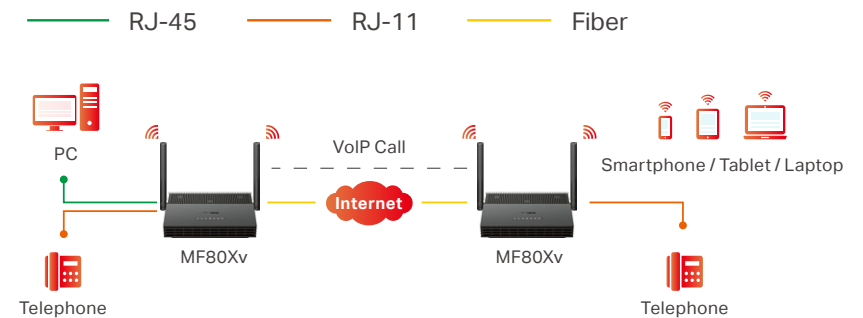


### Remote Management

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

## // VoIP Calls

Support multiple VoIP accounts and provides advanced call features such as caller ID, call waiting, hold, and forwarding—exceeding traditional landline capabilities.



### 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 + 1 x Phone 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

#### VoIP Features

Call hold, Call forward, Warm call, Do not disturb,  
Call restriction, Speed dial, etc. Caller ID, 3-party  
conference, SIP account – up to 8 accounts

#### 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 VoIP XPON Router (MF80Xv)
- 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.