

# BE11000 Tri-Band Wi-Fi 7 Router

## Model: MR47BE

### // Highlights

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- Amazing 11 Gbps Tri-Band Wi-Fi 7<sup>†</sup>
- 6× Omni Directional Antennas for Wider Coverage
- 4× 2.5 Gbps Ports for Higher Performance<sup>§</sup>
- 4× Lower Latency<sup>^</sup>
- Easy Setup with the MERCUSYS App

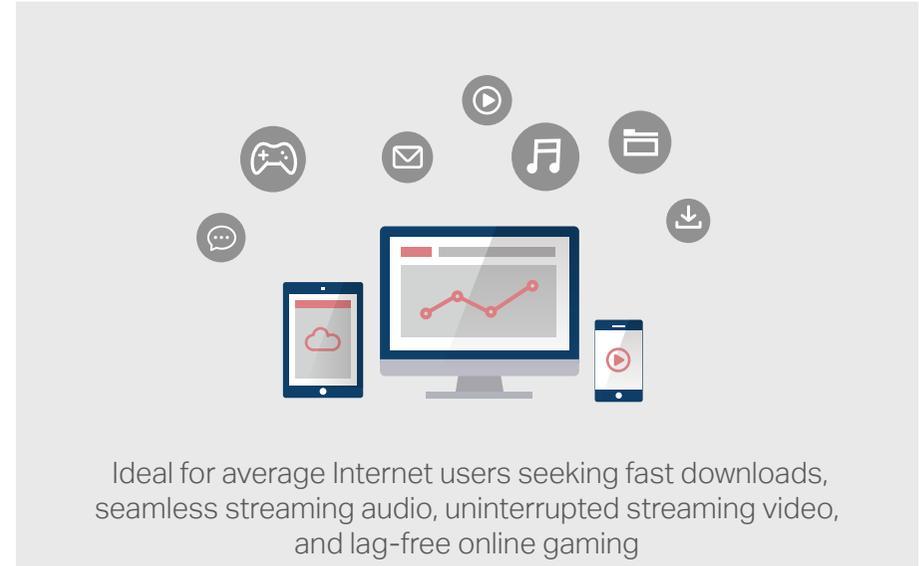
# Wi-Fi 7



## // 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



### Overall Security Protection

The latest security standard, WPA3, provides improved comprehensive Wi-Fi protection\*\*

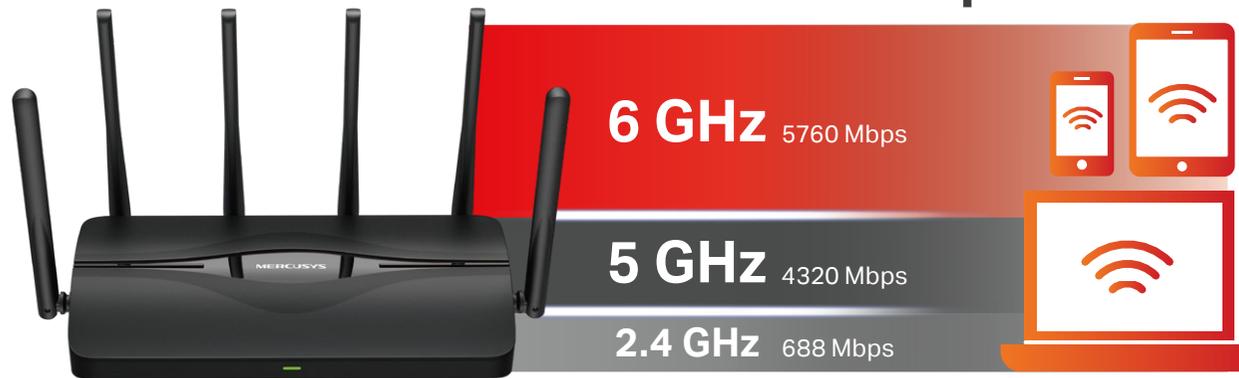


### IPv6 Support

Allows you to visit IPv6 websites and enjoy IPv6 services provided by your ISP

**// Wi-Fi 7 — Take Your Home Network to the Next Level**

**Multi-Link Operation**



**Amazing 11 Gbps Tri-Band Wi-Fi**

Wi-Fi 7 takes full advantage of the 6 GHz band, with up to 320 MHz channels, 4K-QAM, and MLO(Multi-Link Operation), improving Wi-Fi speeds to 11 Gbps. Experience unlimited 8K streaming and lightning-fast downloading. <sup>††</sup>



**More Fluid with 4× Lower Latency**

Offering 4× less latency than Wi-Fi 6/6E routers, applications like VR/AR, video conferencing, and online gaming consistently perform at optimal efficiency. <sup>^</sup>

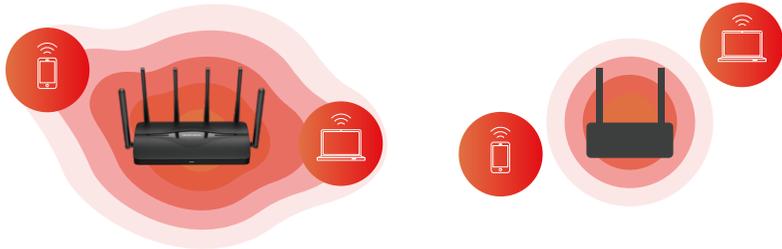


**Multi-Link Operation**

Multi-Link Operation (MLO) enables MR47BE to transmit data with Wi-Fi 7 clients across multiple bands simultaneously to increase throughput, reduce latency, and improve reliability for various networking behaviors.

## // Wider Wi-Fi Coverage

6× omni directional antennas, proprietary Wi-Fi optimization, and Beamforming technology deliver broader coverage, more capacity, stronger and more reliable connections, and less interference.



MR47BE with Beamforming

Regular Router without Beamforming

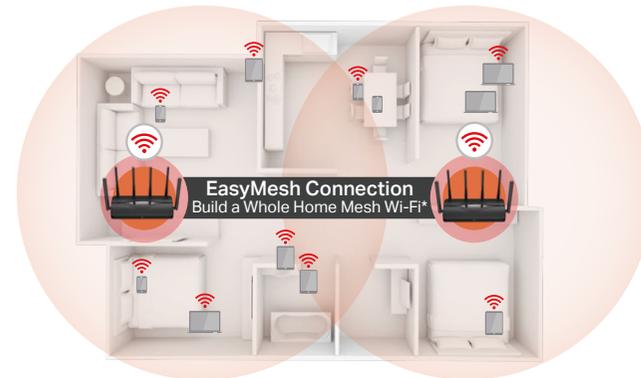
## // Secure VPN Access

Easily set up VPN client or server modes directly on the router. Ideal for secure remote access, private browsing, and major protocols compatibility, including WireGuard, OpenVPN, L2TP/IPSec, and PPTP.



## // EasyMesh-Compatible

MR47BE 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.\*



## // Full 2.5 Gbps Ports

Equipped with 1× 2.5 Gbps WAN port and 3× 2.5 Gbps LAN ports, MR47BE allows you to take full advantage of your broadband speed. Plug your PCs, smart TVs, game consoles, or NAS devices into the ports for blazing-fast wired connections. §



## // Specifications

### Hardware

#### Ports

1× 2.5 Gbps WAN Port + 3× 2.5 Gbps LAN Ports<sup>§</sup>

#### Button

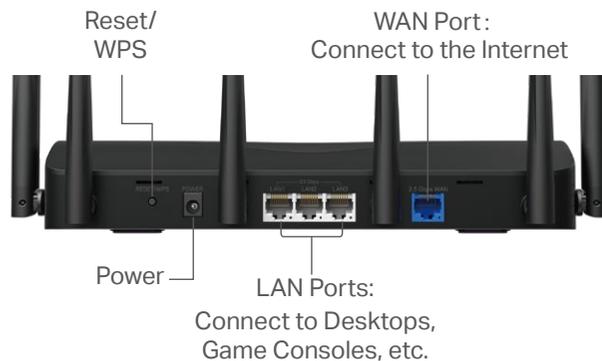
Reset/WPS Button

#### Dimensions

258×119×43.3 mm (10.1×4.7×1.7 inches)

#### Antennas

6× Omni Directional Antennas



### Wireless

#### Wireless

5760 Mbps (6 GHz) + 4320 Mbps (5 GHz) + 688 Mbps (2.4 GHz)<sup>†</sup>

#### Wi-Fi 7 Features

6 GHz, EHT320, 4K-QAM, Multi RU, OFDMA, MU-MIMO, MLO (Multi-Link Operation)<sup>‡</sup>

#### Advanced Features

IPTV, IPv6, Access Point Mode, DHCP Server, and Smart Connect<sup>\*</sup>

#### EIRP

2.4 GHz ≤ 20 dBm (EIRP)  
5 GHz ≤ 23 dBm (band1, band2)  
5 GHz ≤ 30 dBm (band3)  
6 GHz ≤ 23 dBm (EIRP)

#### Reception Sensitivity:

2.4 GHz:  
11ax HE20 MCS0: -95dBm, 11ax HE20 MCS11: -65dBm  
11ax HE40 MCS0: -93dBm, 11ax HE40 MCS11: -63dBm  
5 GHz:  
11ax HE20 MCS0: -95dBm, 11ax HE20 MCS11: -64dBm  
11ax HE40 MCS0: -93dBm, 11ax HE40 MCS11: -62dBm  
11ax HE80 MCS0: -89dBm, 11ax HE80 MCS11: -59dBm  
11ax HE160 MCS0: -85dBm, 11ax HE160 MCS11: -56dBm  
11be EHT20 MCS13: -58dBm, 11be EHT40

MCS13: -56dBm

11be EHT80 MCS13: -53dBm, 11be EHT160

MCS13: -51dBm

6 GHz:

11ax HE20 MCS0: -95dBm, 11ax HE20 MCS11: -65dBm

11ax HE40 MCS0: -93dBm, 11ax HE40 MCS11: -63dBm

11ax HE80 MCS0: -90dBm, 11ax HE80 MCS11: -60dBm

11ax HE160 MCS0: -87dBm, 11ax HE160

MCS11: -58dBm

11be EHT20 MCS13: -60dBm, 11be EHT40

MCS13: -58dBm

11be EHT80 MCS13: -54dBm, 11be EHT160

MCS13: -52dBm

11be EHT240 MCS13: -50dBm

11be EHT320 MCS0: -84dBm, 11be EHT320

MCS13: -48dBm

#### Wireless Function

Enable/Disable Wireless Radio, WMM

#### Security Features

- Wireless Security: WPA-PSK/WPA2-PSK/WPA3-SAE<sup>\*\*</sup>
- Guest Network Access
- Firewall Protection
- VPN Support: OpenVPN/PPTP/L2TP/WireGuard VPN Server and Clients

## // Specifications

### Software

#### WAN Type

Dynamic IP/Static IP/PPPoE/L2TP/PPTP

#### DHCP

Server, DHCP Client List

#### NAT Forwarding

Port Forwarding, Port Triggering, UPnP, DMZ

#### Management

Access Control

Local Management

Remote Management

#### Firewall Security

SPI Firewall, IP and MAC Address Binding

#### Guest Network

2.4 GHz Guest Network, 5 GHz Guest Network,

6 GHz Guest Network

#### Protocols

IPv4, IPv6

#### Cloud Service

Auto Firmware Upgrade, Mercusys ID, DDNS

#### DDNS

Mercusys, NO-IP, DynDNS

#### Quality of Service

QoS by Device

#### EasyMesh Supported

Parental Controls Supported

### Others

#### Package Contents

- BE11000 Tri-Band Wi-Fi 7 Router MR47BE
- 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

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<sup>1</sup>Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Over 300 device connections is based on laboratory test data, which analyzed the connections of different devices on the 6 GHz, 5 GHz, and 2.4 GHz bands simultaneously. These devices simulated a typical home scenario by running simultaneous applications in the same room that included 4K video, 1080p video, 720p video, file downloading, web browsing, IP cameras, and other IoT devices. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, and building materials, obstacles, volume and density of traffic, and client location.

<sup>2</sup>Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 320 MHz Bandwidth, 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features. The 320 MHz bandwidth is only available on the 6 GHz band. Simultaneously, the 320 MHz bandwidth on the 6 GHz band and 160 MHz bandwidth on the 5 GHz band may be unavailable in some regions/countries due to regulatory restrictions. Double channel width and speed refer to 320 MHz compared to 160 MHz for Wi-Fi 6 routers. This router may not support all the mandatory features as ratified in the IEEE 802.11be specification. Further software upgrades for feature availability may be required.

<sup>3</sup>2.5 Gbps internet speeds require compatible service plans and equipment.

<sup>4</sup>4x Lower Latency refers to the latency improvement of Wi-Fi 7 routers compared to Wi-Fi 6/6E routers, based on laboratory test data. The test conditions had the same 5 GHz or 6 GHz single-frequency wireless interference and tested the maximum latencies of Wi-Fi 7 clients (with MLO turned on) connecting to the 5 GHz and 6 GHz bands of a MERCUSYS Wi-Fi 7 router (with MLO turned on) simultaneously and to the 5 GHz or 6 GHz bands of a Wi-Fi 6/6E router (without the MLO function).

\*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.

\*\*Use of WPA3 requires clients to also support the corresponding feature.

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.