

# BE9300 Tri-Band Wi-Fi 7 Router

Model: MR47BE

# Wi-Fi 7



## // Highlights

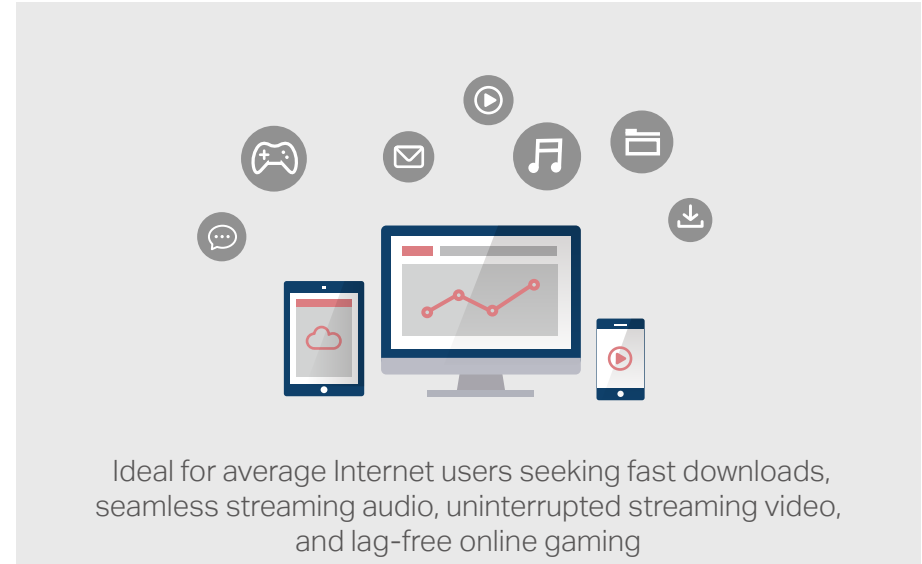
- Amazing 9.3 Gbps Tri-Band Wi-Fi 7<sup>†</sup>
- 6× Omni Directional Antennas for Wider Coverage
- 4× 2.5 Gbps Ports for Higher Performance<sup>§</sup>
- More Capacity over 300 Devices<sup>†</sup>
- 4× Lower Latency<sup>^</sup>
- Enhanced WPA3 Security<sup>\*\*</sup>
- Easy Setup with the MERCUSYS App



## // 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 Support

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

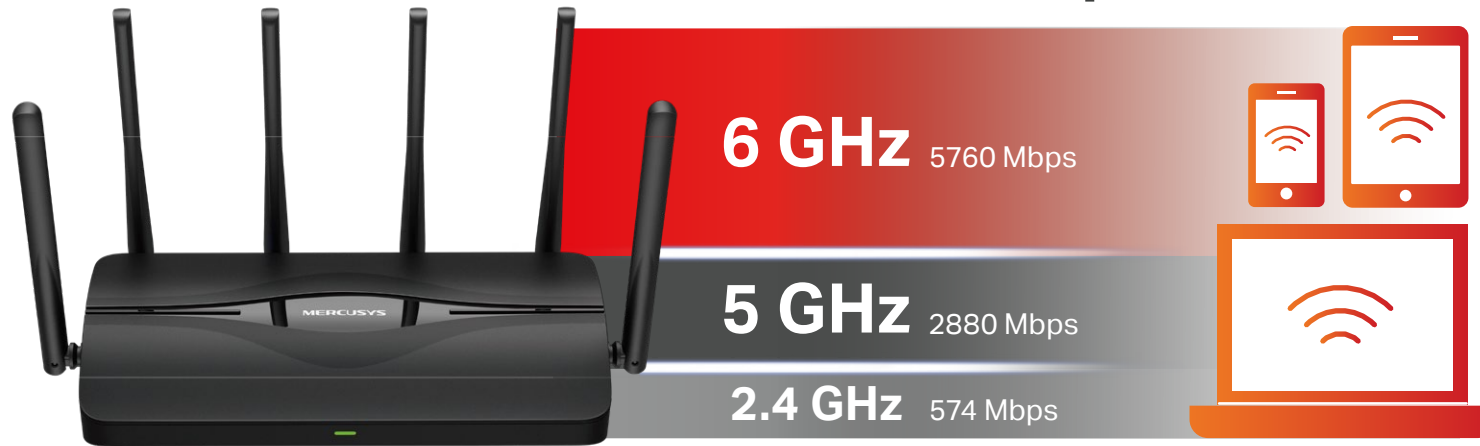


### IPv6 Support

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



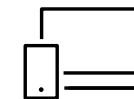
#### Amazing 9.3 Gbps Tri-Band Wi-Fi

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 9.3 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>

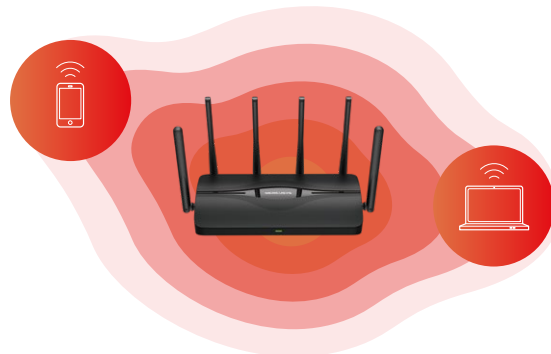


#### Connect over 300 Devices

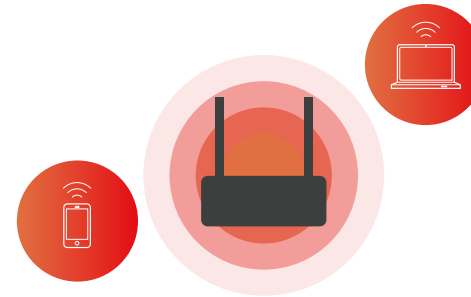
Concurrently uses MU-MIMO and tri-band to communicate with numerous devices. Wi-Fi 7 delivers unobstructed signals to your laptop, TV, and IoT devices when combined with the potent CPU. <sup>†</sup>

## // 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

## // Overall Security Protection

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



## // 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

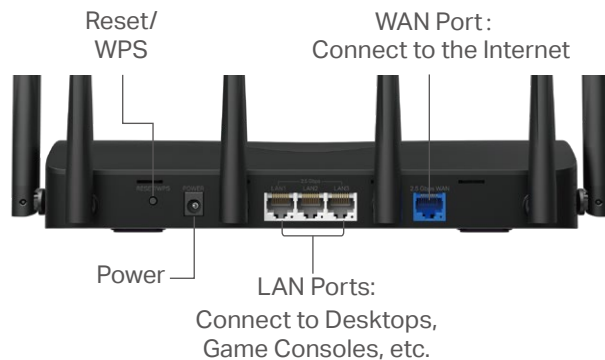
Reset/WPS Button

#### Dimensions

10.1×4.7×1.7 in (258×119×43.3 mm)

#### Antennas

6× Omni Directional Antennas



### Wireless

#### Wireless

5760 Mbps (6 GHz) + 2880 Mbps (5 GHz) + 574 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

#### EIRP

2.4 GHz ≤ 20dBm (EIRP)

5 GHz ≤ 23dBm (band1, band2)

5 GHz ≤ 30dBm (band3)

6GHz ≤ 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 EHT320 MCS0: -84dBm, 11be EHT320 MCS13: -48dBm

#### Wireless Function

Enable/Disable Wireless Radio, WMM

#### Security Features

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

## // Specifications

### Software

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#### 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

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#### Package Contents

• BE9300 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>4× 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).

<sup>5</sup>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.

<sup>6</sup>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.