# MERCUSYS®

# BE3600 Dual-Band Wi-Fi 7 Router
## Model: MR25BE

**EasyMesh Compatible**

**Wi-Fi 7**

## // Highlights

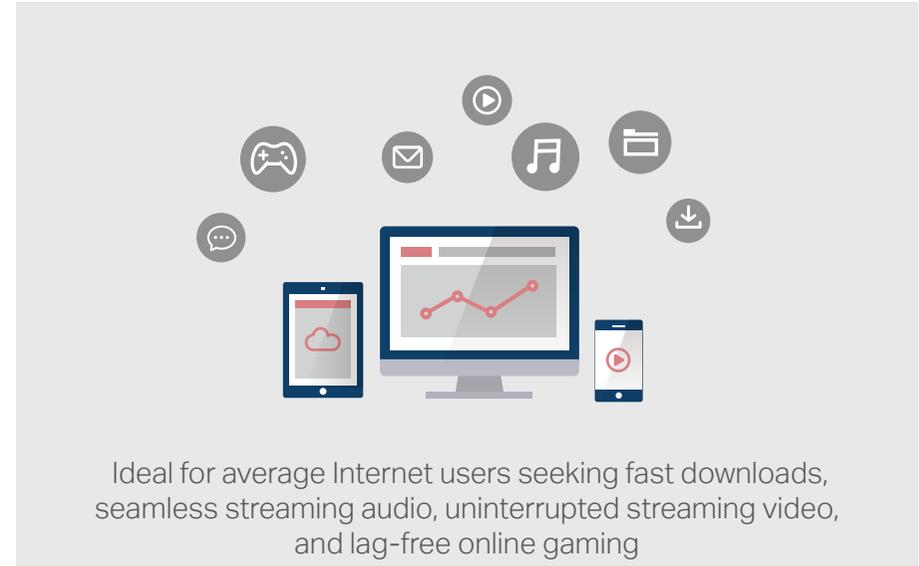- Amazing 3.6 Gbps Dual Band Wi-Fi 7[†]

- 4× Omni Directional Antennas for Wider Coverage

- Enhanced WPA3 Security**

- 5× 1 Gbps Ports Boost Wired Connections

- Easy Setup with the MERCUSYS App

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 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

**5 GHz** 2880 Mbps

**2.4 GHz** 688 Mbps

**Fast 3.6 Gbps Dual Band Wi-Fi 7**

With up to 160 MHz channels, 4K-QAM, and MLO (Multi-Link Operation), MR25BE improves Wi-Fi speeds to 3.6 Gbps. Experience unlimited 8K streaming and lightning-fast downloads.[†‡]

**5× 1 Gbps Wired Connections**

Equipped with 1× 1 Gbps WAN port and 4× 1 Gbps LAN ports, MR25BE 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.

## 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.

## 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.**

## Wider Wi-Fi Coverage

Four omnidirectional antennas, proprietary Wi-Fi optimization, and beamforming technology deliver broader coverage, more capacity, stronger and more reliable connections, and less interference.

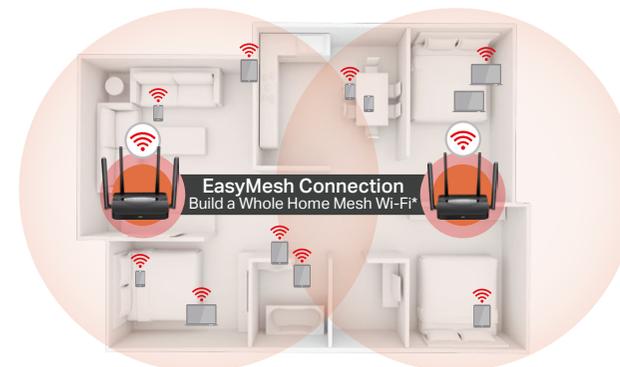MR25BE with Beamforming

Regular Router without Beamforming

## EasyMesh-Compatible

MR25BE 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*

# // Specifications

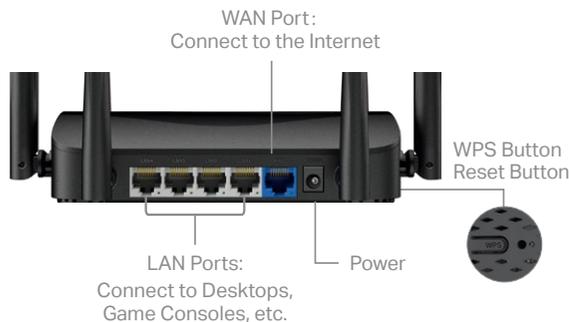## Hardware

**Ports**
1× 1 Gbps WAN Port + 4× 1 Gbps LAN Ports

**Button**
Reset Button, WPS Button

**Dimensions**
167 × 117.5 × 41.5 mm (6.6 × 4.6 × 1.6 inches)

**Antennas**
4× Omni Directional Antennas



WAN Port:
Connect to the Internet

WPS Button
Reset Button

Power

LAN Ports:
Connect to Desktops,
Game Consoles, etc.

## Wireless

**Wireless Speed**
2880 Mbps (5 GHz) + 688 Mbps (2.4 GHz)[†]

**Wireless Standards**
802.11be/ax/ac/a/b/g/n

**Wireless Features**
EHT160, 4K-QAM, Multi RUs, OFDMA, MU-MIMO, MLO (Multi-Link Operation)[‡]

**Advanced Features**
IPTV, IPv6, Access Point Mode, DHCP Server, and Smart Connect

**EIRP**
2.4 GHz ≤ 20 dBm
5.17~5.35 GHz ≤ 23 dBm
5.47~5.725 GHz ≤ 30 dBm

**Reception Sensitivity:**

2.4 GHz:
11ax HE20 MCS0: -96dBm, 11ax HE20 MCS11: -65dBm
11ax HE40 MCS0: -94dBm, 11ax HE40 MCS11: -63dBm
11be EHT20 MCS13: -60dBm, 11be EHT40 MCS13: -58dBm

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

**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

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

**DHCP**
Address Reservation, 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

**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**
• BE3600 Dual-Band Wi-Fi 7 Router MR25BE
• Power Adapter
• Quick Installation Guide
• RJ45 Ethernet Cable

**Environment**
• Operating Temperature: 0℃~40℃ (32℉~104℉)
• Operating Humidity: 10%~90% Non-Condensing
• Storage Humidity: 5%~90% Non-Condensing

†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and number of connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, environmental factors, building materials, obstacles, volume and density of traffic, and client location.
‡Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 160 MHz Bandwidth, 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features. The 160 MHz bandwidth on the 5 GHz band may be unavailable in some regions/countries due to regulatory restrictions. 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.
*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. This product is compatible with standardized EasyMesh technology but has not obtained the Wi-Fi EasyMeshTM certification.
**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.