MERCUSYS®

BE6500 Dual-Band Wi-Fi 7 Router

Model: MR37BE

Wi-Fi 7

EasyMesh Compatible

Highlights

- Amazing 6.5 Gbps Dual Band Wi-Fi 7†
- 6× Omni Directional Antennas for Wider Coverage
- 2.5 Gbps Ports for Higher Performance§
- More Capacity over 150 Devices†



Easy App Control

The MERCUSYS app helps you set up in minutes and manage your Wi-Fi at home or away through your iOS or Android devices.

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

Access Point Mode
Extends a wired network and makes it wireless

Guest Network
Provides a separate network for guests to ensure your security and privacy

Parental Controls
Establish appropriate policies to protect children with responsible, safe internet access

Quality of Service
Prioritizes devices you select to perform better

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

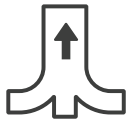
IPv6 Support
Allows you to visit IPv6 websites and enjoy IPv6 services provided by your ISP

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









Fast 6.5 Gbps Dual Band Wi-Fi 7

With up to 160 MHz channels, 4K-QAM, and MLO(Multi-Link Operation), MR37BE improves Wi-Fi speeds up to 6.5 Gbps. Experience unlimited 8K streaming and lightning-fast downloading. †‡

Connect over 150 Devices

Concurrently uses MU-MIMO and dual 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. †

Multi-Link Operation

Multi-Link Operation (MLO) enables MR37BE to transmit data with Wi-Fi 7 clients across the 2.4 GHz and 5 GHz 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.

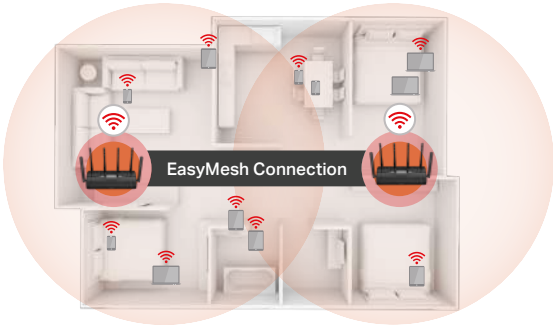


MR37BE with Beamforming

Regular Router
without Beamforming

Build a Whole Home Mesh Wi-Fi with EasyMesh

MR37BE 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.*



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.**



2.5 Gbps Ports Wired Connections

Equipped with 1× 2.5 Gbps WAN port, 1× 2.5 Gbps LAN port and 2× Gigabit ports, MR37BE 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 +1× 2.5 Gbps LAN Port + 2× 1 Gbps LAN Ports§

Button

Reset Button

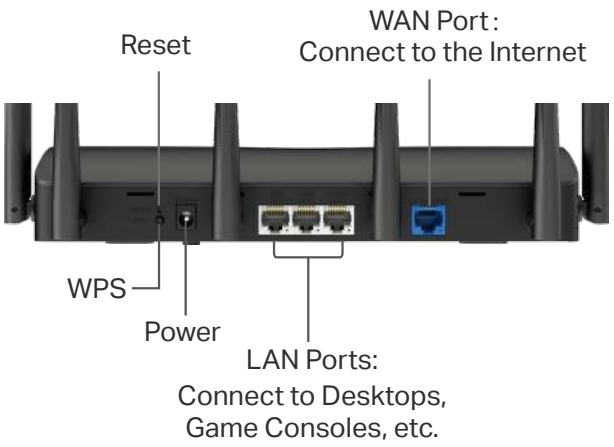
WPS Button

Dimensions

258 × 119 × 43.3 mm (10.2 × 4.7 × 1.7 in)

Antennas

6× Omni Directional Antennas



Wireless

Wireless

5760 Mbps (5 GHz) + 688 Mbps (2.4 GHz)

Wi-Fi 7 Features

EHT160, 4K-QAM, Multi RU, OFDMA, MU-MIMO, MLO (Multi-Link Operation)‡

Advanced Features

IPTV, IPv6, DHCP Server, Access Point Mode, and Smart Connect

EIRP

2.4 GHz ≤ 20dBm (EIRP)

5 GHz ≤ 23dBm (band1, band2)

5 GHz ≤ 30dBm (band3)

Reception Sensitivity:

2.4 GHz:

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

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

11be EHT20 MCS13: -61dBm, 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
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
- BE6500 Dual-Band Wi-Fi 7 Router MR37BE
- 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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†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Over 150 device connections is based on laboratory test data, which analyzed the connections of different devices on the 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.
‡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.
§2.5 Gbps internet speeds require compatible service plans and equipment.
*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.