MERCUSYS®

Wi-Fi 7

BE6500

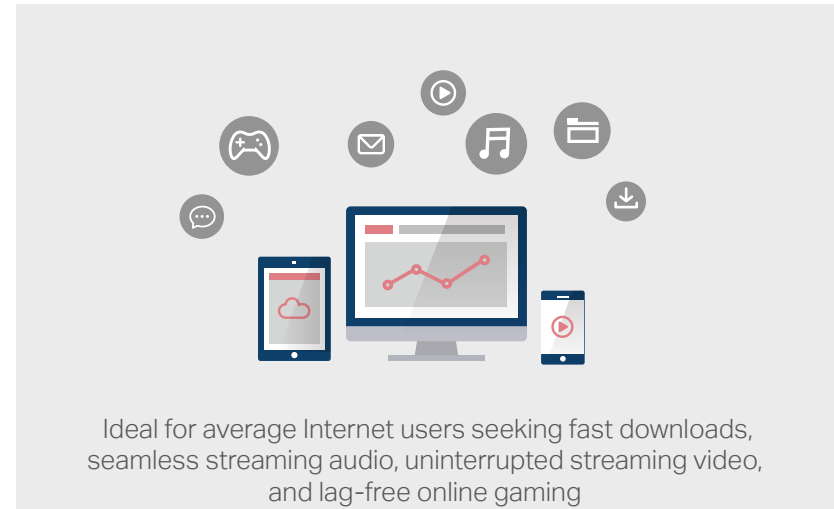## Whole Home Mesh Wi-Fi 7 System

Model: Halo H37BE

Take Your Home Network to the Next Level

// Applications

Ideal for large homes with multiple rooms and multiple users
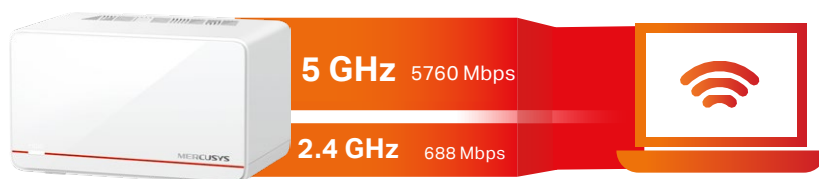

Ideal for average Internet users seeking fast downloads, seamless streaming audio, uninterrupted streaming video, and lag-free online gaming

// Features

The Newest Wi-Fi 7

Equipped with Wi-Fi 7, Halo H37BE not only boosts network through-put but also elevates other key metrics like capacity, efficiency, and latency.△

5 GHz 5760 Mbps
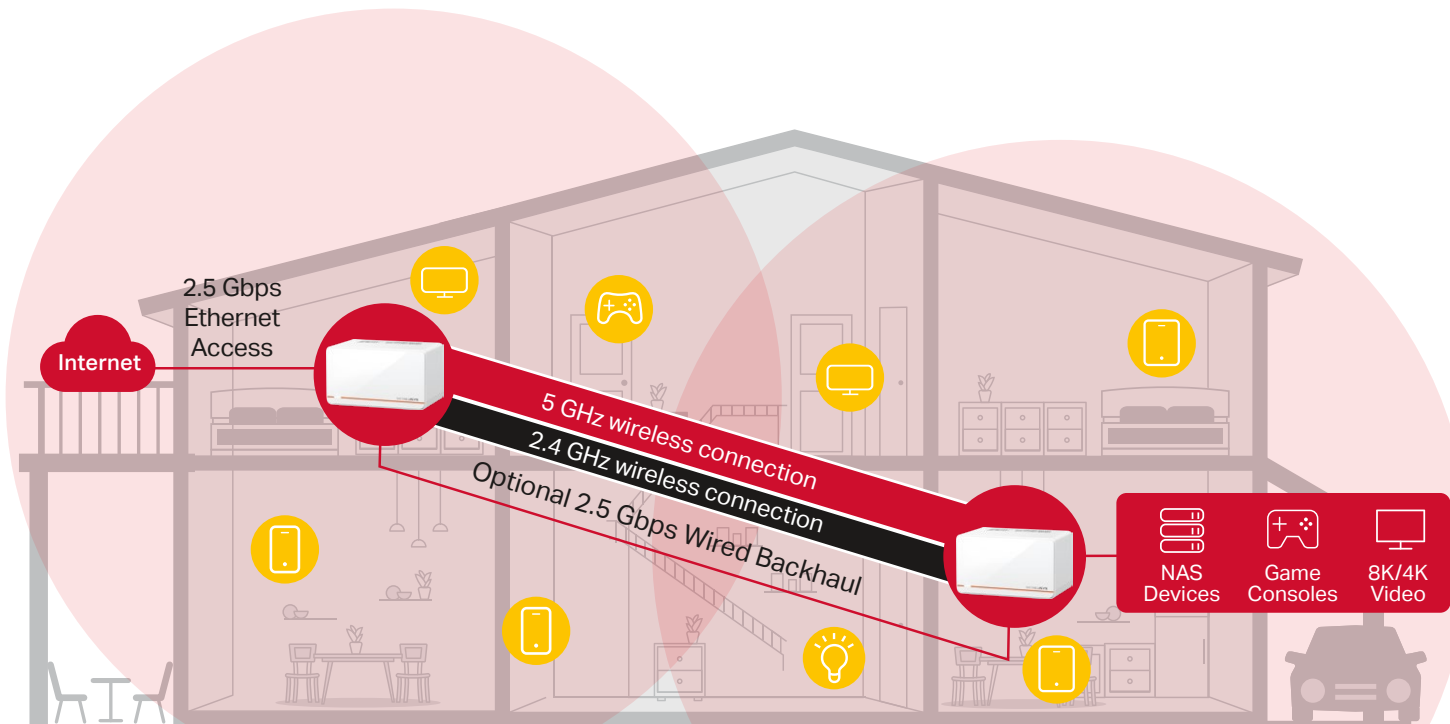
2.4 GHz 688 Mbps

Easy App Control

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

Download on the App Store

GET IT ON Google Play

// Create Your Own Multi-Gigabit Mesh Network

Halo mesh units form a unified network, sharing a single name and password to eliminate weak signal areas. They auto-select the optimal signal for consistently strong connectivity.[†]

Halo H37BE is compatible with 2.5G ISP access, featuring 2× 2.5 Gbps WAN/LAN auto-sensing ports and 1× 1 Gbps WAN/LAN auto-sensing port. The additional port serves as either a device LAN connection or a wired backhaul between Halo H units, ensuring robust 2.5 Gbps connectivity—both wired and wirelessly.**

Internet

2.5 Gbps Ethernet Access

5 GHz wireless connection
2.4 GHz wireless connection
Optional 2.5 Gbps Wired Backhaul

NAS Devices   Game Consoles   8K/4K Video

Whole Home Coverage
Eliminate weak signal areas with clearer, stronger whole home Wi-Fi.[‡]

Seamless Roaming
Choose the best signal and enjoy the best connections.[†]

One Unified Network
Run a single home network with one Wi-Fi name and password.

Connects over 200 Devices
Halo keeps your phones, computers, and all IoT devices connected simultaneously.[‡]

// Specifications

Wireless

Wireless Standards
5 GHz: IEEE 802.11a/n/ac/ax/be
2.4 GHz: IEEE 802.11b/g/n/ax/be

Signal Rate‡
5760 Mbps at 5 GHz
688 Mbps at 2.4 GHz

Mesh protocol
802.11k/v/r

EIRP
5G band1 band2<23dBm
5G band3<30dBm
2.4G band<20dBm

Reception Sensitivity
5G:
11BE EHT20 MCS0: -95.5dBm
11BE EHT20 MCS13: -61dBm
11BE EHT80 MCS0: -90.5dBm
11BE EHT80 MCS13: -53dBm
11BE EHT160 MCS0: -88dBm
11BE EHT160 MCS13: -54.5dBm
2.4G:
11BE EHT20 MCS0: -96.5dBm
11BE EHT20 MCS11: -68dBm
11BE EHT40 MCS0: -94.5dBm
11BE EHT40 MCS11: -65dBm

Software

Working Mode
Router, Access Point

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

DHCP
Server, Client

Quality of Service
WMM

Firewall Security
SPI Firewall

Protocols
Supports IPv4 and IPv6

Guest Network
2.4 GHz Guest Network x 1
5 GHz Guest Network x 1

Features
Parental Controls, QoS (Quality of Service), Reporting, Assisted Setup, Address Reservation, Port Forwarding, Mercusys DDNS, VLAN, IPv6, LED Control

Management
Local Management, Remote Management, Multi-Managers

Wireless Security
WPA-PSK/WPA2-PSK/WPA3-SAE§

// Specifications
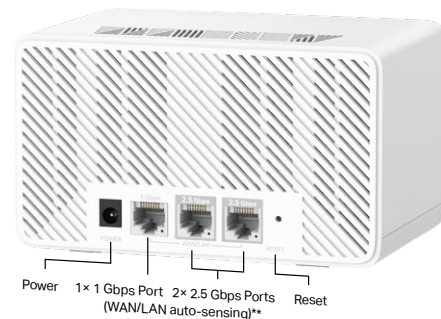
Hardware

Ports
2× 2.5 Gbps Ports + 1× 1 Gbps Port (WAN/LAN auto-sensing)

Button
Reset button

Dimensions (W x D x H)
5.91 × 3.70 × 3.39 in (150 × 94 × 86 mm)

Power   1× 1 Gbps Port   2× 2.5 Gbps Ports   Reset
(WAN/LAN auto-sensing)**

Others

Environment
Operating Temperature: 0°C~40°C (32°F~104°F)

Operating Humidity: 10%~90% Non-Condensing

Storage Humidity: 5%~90% Non-Condensing

Package Contents for Halo H37BE (2-pack):
2× Halo H37BE Units

1× RJ45 Ethernet Cable

2× Power Adapters

Quick Installation Guide

Package Contents for Halo H37BE (3-pack):
3× Halo H37BE Units

1× RJ45 Ethernet Cable

3× Power Adapters

Quick Installation Guide

†Seamless roaming requires clients to support 802.11k/v/r and may require additional setup. Performance may vary depending on the client device.

‡Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Over 200 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, including 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), 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features. This Halo may not support all the mandatory features as ratified in the IEEE 802.11be/ax specification. Further software upgrades for feature availability may be required.

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

**2.5 Gbps internet speeds require compatible service plans and equipment. All WAN/LAN ports will operate as either WAN or LAN ports. Only one port can serve as a WAN port at a time.

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.