

MERCUSYS[®]

Wi-Fi 7

BE3600

Whole Home Mesh Wi-Fi 7 System

Model: Halo H25BE

Seamless Coverage up to
7000 ft² | **650** m²

**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



Multi-Link Operation

Transmits data across different bands simultaneously^Δ



4K-QAM

Packs 20% more data compared with 1024-QAM^Δ

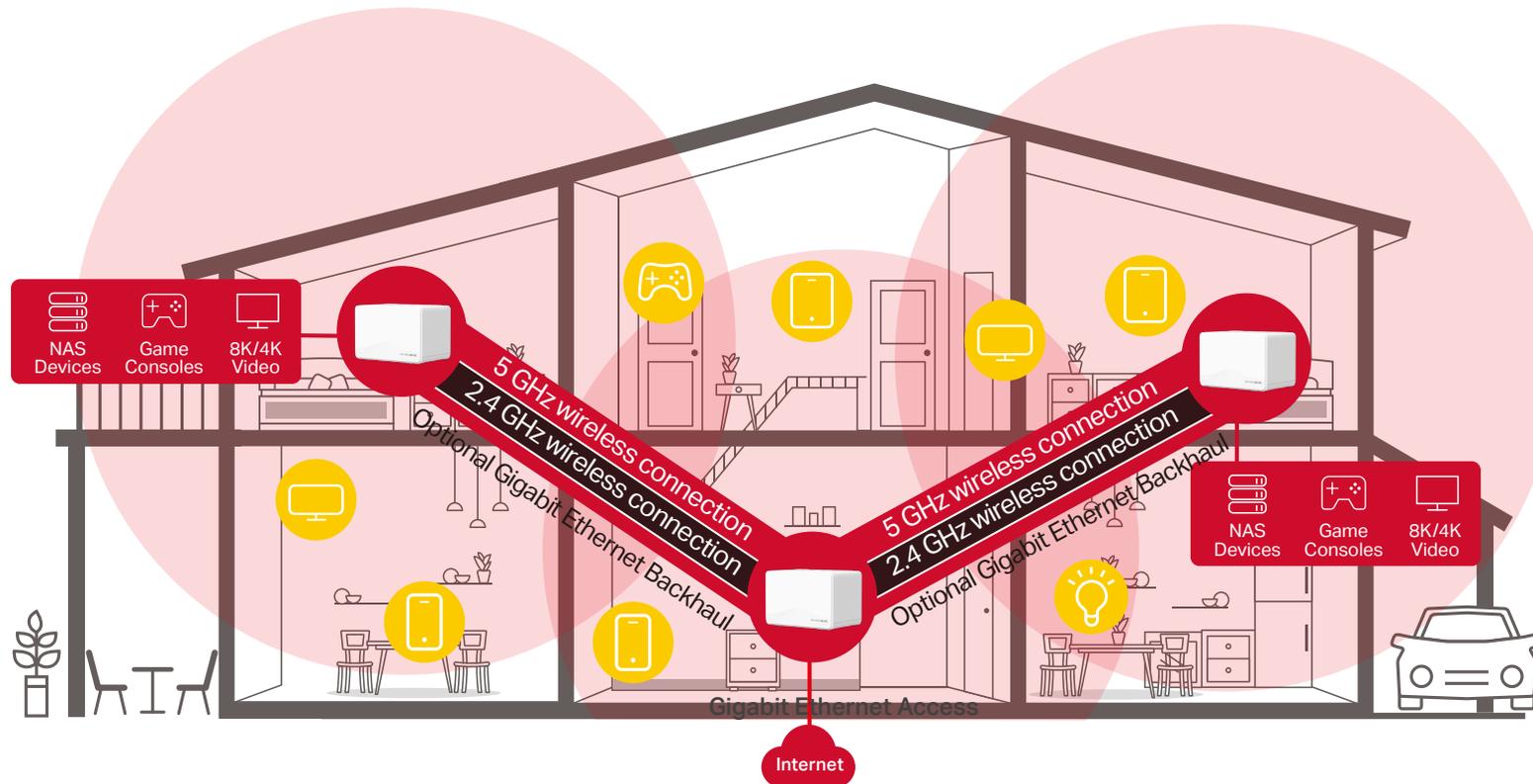


Multi-RUs

Makes full use of every resource^Δ

// Create Your Own Multi-Gigabit Mesh Network

Halo H25BE features 3 × 1 Gbps WAN/LAN auto-sensing ports, which can serve as either device LAN connections or as wired backhauls between Halo H units, ensuring robust connectivity—both wired and wirelessly.**



 3 × 1 Gbps
WAN/LAN Ports**

 Connects over 150 Devices†

 Seamless Roaming with
One Wi-Fi Name†

 Enhanced WPA3 Security[§]

// 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[†]

2880 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: -98.5dBm

2.4G: -97dBm

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

3 × 1 Gbps Ports (WAN/LAN auto-sensing)

Button

Reset button

Dimensions (W x D x H)

128 × 81.3 × 83.7 mm (5 × 3.2 × 3.3 in)

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 H25BE (3-pack):

3× Halo H25BE Units

1× RJ45 Ethernet Cable

3× Power Adapters

Quick Installation Guide

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†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 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, 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, and OFDMA requires clients to also support the corresponding features. This Halo may not support all the mandatory features as ratified in the IEEE 802.11 ax/be specification. Further software upgrades for feature availability may be required.

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

**All WAN/LAN ports will operate as either WAN or LAN ports. Only one port can serve as a WAN port at a time.