

MERCUSYS®

Wi-Fi 7

BE9300

Whole Home Mesh Wi-Fi 7 System

Model: Halo H47BE



Amazing 9.3 Gbps
Tri-Band Wi-Fi 7[†]

Seamless Roaming
with One Wi-Fi Name[†]

3× 2.5 Gbps WAN/LAN Ports
for Higher Performance^{**}

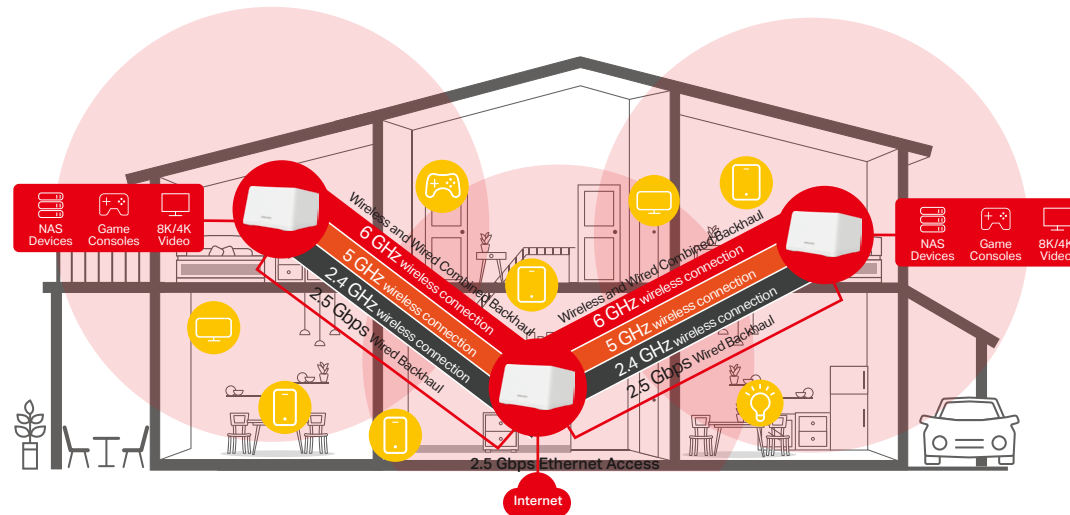
Connects over
200 Devices[†]

Easy Setup with the
MERCUSYS App

// 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 H47BE is compatible with 2.5G ISP access, featuring three 2.5 Gbps WAN/LAN auto-sensing ports. 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.**



// The Newest Wi-Fi 7

Equipped with Wi-Fi 7, Halo H47BE not only boosts network throughput but also elevates other key metrics like capacity, efficiency, and latency.^Δ

| | |
|---------|-----------|
| 6 GHz | 5760 Mbps |
| 5 GHz | 2880 Mbps |
| 2.4 GHz | 688 Mbps |

Multi-Link Operation

// Specifications

Wireless

Wireless Standards

6 GHz: IEEE 802.11ax/be

5 GHz: IEEE 802.11a/n/ac/ax/be

2.4 GHz: IEEE 802.11b/g/n/ax/be

Signal Rate[‡]

5760 Mbps at 6 GHz;

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

6G<23dBm

Reception Sensitivity

2.4G: -96dBm

5G: -95dBm

6G: -96dBm

Software

Working Mode

Router, Access Point

WAN Type

Dynamic IP/Static IP/PPPoE/L2TP/PPTP/DS-Lite

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

6 GHz Guest Network x 1

Features

VPN Server, VPN Client, 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

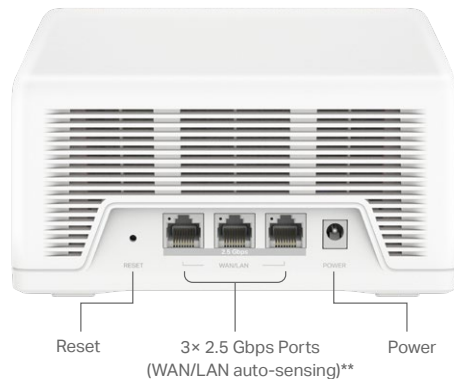
3× 2.5 Gbps Ports (WAN/LAN auto-sensing)

Button

Reset button

Dimensions (W x D x H)

6.69 × 4.82 × 4.07 in (170 × 122.4 × 103.5 mm)



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 H47BE (3-pack):

3× Halo H47BE Units

1× RJ45 Ethernet Cable

3× Power Adapters

Quick Installation Guide

Package Contents for Halo H47BE (2-pack):

2× Halo H47BE Units

1× RJ45 Ethernet Cable

2× 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 200 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, 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), 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 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.

*Please note that the Halo H series and S series cannot work together. Halo H47BE is compatible with other units from the Halo H series to form a Mesh network.

**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.