

MERCUSYS[®]

Wi-Fi 7



BE3600

Whole Home Mesh Wi-Fi 7 System

Model: Halo E27BE



Amazing 3.6 Gbps
Dual-Band Wi-Fi 7[†]

Seamless Roaming with
One Wi-Fi Name[†]

1× 2.5 Gbps WAN/LAN Port
for Higher Performance**

Connects over 200
Devices[†]

Easy Setup with the
MERCUSYS App

Wi-Fi 7

Take Your Home Network to the Next Level

Create Your Own Multi-Gigabit Mesh Network

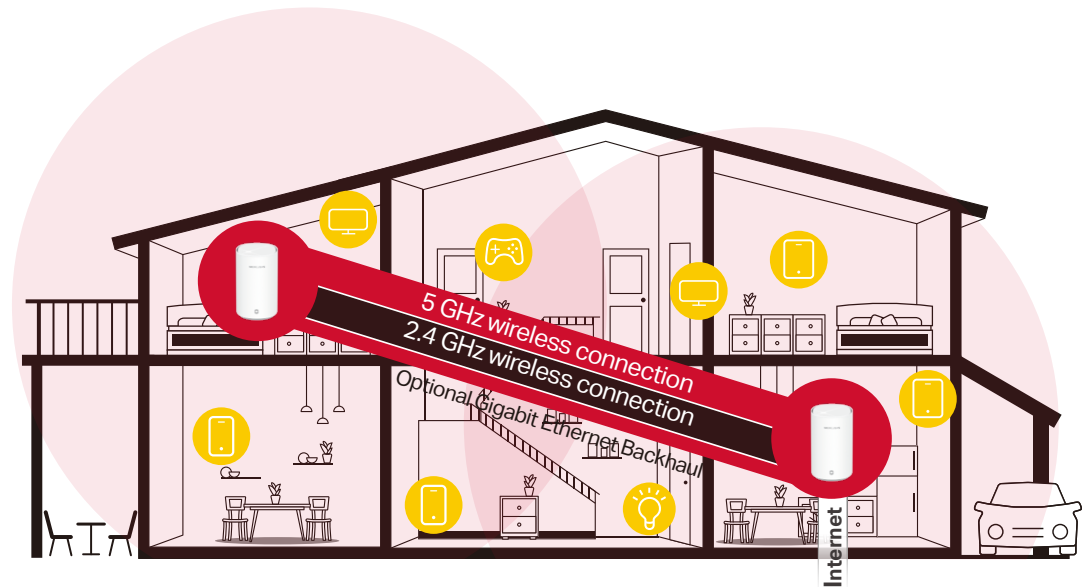
Halo E27BE is compatible with 2.5G ISP access, featuring 1 x 2.5 Gbps WAN/LAN auto-sensing port and 2 x 1 Gbps WAN/LAN auto-sensing ports. The additional port serves as either a device LAN connection or a wired backhaul between Halo E & Halo H units, ensuring robust connectivity—both wired and wirelessly.**

True Seamless Roaming with One Unified 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.†

The Newest Wi-Fi 7

Equipped with Wi-Fi 7, Halo E27BE not only boosts network throughput but also elevates other key metrics like capacity, efficiency, and latency.‡



Parental Controls

Set access control and time limits to better manage your family's online habits.



Monthly Reports

Understand your network better with comprehensive records.



Quality of Service (QoS)

Prioritize select devices to perform better.



Automatically Expand Coverage

After configuring the main router, simply power up the included add-on unit. It will automatically join the network and establish a whole home mesh Wi-Fi system.

// Specifications

Wireless

Wireless Standards

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

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

Signal Rate[†]

2880 Mbps at 5 GHz

688 Mbps at 2.4 GHz

EIRP

5G band1 band2<23dBm

5G band3<30dBm

2.4G band<20dBm

Reception Sensitivity

5 GHz:

11BE EHT20 MCS0: -98dBm

11BE EHT20 MCS13: -63dBm

11BE EHT40 MCS13: -59dBm

11BE EHT80 MCS13: -56dBm

11BE EHT160 MCS13: -56dBm

2.4 GHz:

11BE EHT20 MCS0: -97dBm

11BE EHT20 MCS11: -68dBm

11BE EHT40 MCS0: -95dBm

11BE EHT40 MCS11: -64dBm

Software

Working Mode

Router, Access Point

VPN Support

OpenVPN/PPTP/L2TP/WireGuard VPN Server and Client

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, BSS Color[△],

Target Wake Time[△], Beamforming, Smart Connect, Port

Forwarding, Optional Ethernet Backhaul, IPTV, IPv6, OFDMA

Management

Local Management, Remote Management, Multi-Managers

Wireless Security

WPA-PSK/WPA2-PSK/WPA3[§]

Wi-Fi 7 Features[△]

4K-QAM, Multi-RUs, MLO (Multi-Link Operation)

// Specifications

Hardware

Ports

1x 2.5 Gbps Port + 2x 1 Gbps Ports**

Button

Reset button

Dimensions (W x D x H)

100 x 100 x 167.65 mm (3.9 x 3.9 x 6.6 inches)

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 E27BE (2-pack):

2× Halo E27BE 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 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.

*Please note that the Halo E & Halo H series cannot work together with Halo S series. Halo E27BE is compatible with other units from the Halo E & 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.