

AX3000 Whole Home Mesh Wi-Fi System

Model: Halo H85X

Wi-Fi 6

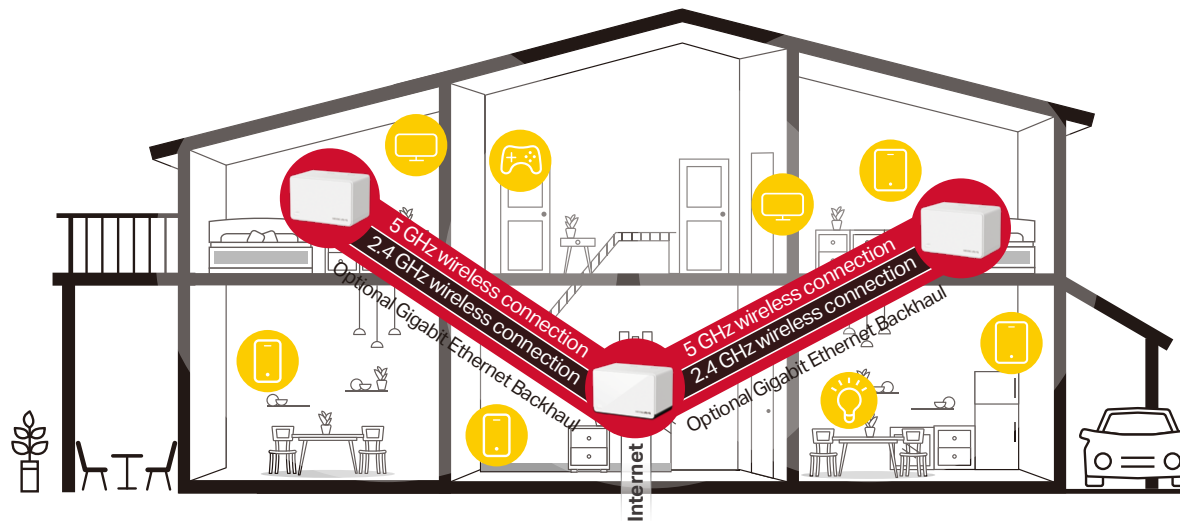
// Highlights

- 3000 Mbps Dual Band Wi-Fi[†]
- Seamless Roaming with One Wi-Fi Name[†]
- Connect over 150 Devices[†]
- Multi-Gigabit Port[§]
- Easy App Control



// Fast Wi-Fi 6 for an Upgraded Network Experience

Armed with Wi-Fi 6, Halo H85X improves virtually every aspect of your network, especially when it comes to speed, efficiency, and capacity. ^Δ



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.



Parental Controls

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



Quality of Service (QoS)

Prioritize select devices to perform better.



Monthly Reports

Understand your network better with comprehensive records.

// Specifications

Wireless

Wireless Standards

IEEE 802.11 a/n/ac/ax 5 GHz,
IEEE 802.11 b/g/n/ax 2.4 GHz

Signal Rate

2402 Mbps on 5 GHz, 574 Mbps on 2.4 GHz

Mesh protocol

802.11k/v/r

Transmission Power

2.4 GHz < 20dBm (EIRP)
5 GHz < 23dBm (EIRP)

Reception Sensitivity

2.4GHz:
11g 6Mbps:-96.5dBm
11g 54Mbps:-78dBm
11AX HE20 MCS0:-96.5dBm
11AX HE20 MCS11:-65dBm
11AX HE40 MCS0:-93.5dBm
11AX HE40 MCS11:-63dBm

5GHz:

11a 6Mbps:-96dBm
11a 54Mbps:-78dBm
11ac VHT20 MCS8:-74.5dBm
11ac VHT40 MCS9:-70.5dBm
11ac VHT80 MCS9:-66.5dBm
11AX HE20 MCS11:-66dBm
11AX HE40 MCS11:-63dBm
11AX HE80 MCS11:-61dBm

Software

Working Mode

Router, Access Point

WAN Type

Dynamic IP/Static IP/PPPoE/L2TP/PPTP

DHCP

Server, Client

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),
Monthly Report Assisted Setup, Address
Reservation, Port Forwarding, Mercusys DDNS,
VLAN, IPv6, LED Control, Agile Config, TR-069

Management

Local Management, Remote Management,
Multi-Managers

Wireless Security

WPA-PSK/WPA2-PSK/WPA3

// Specifications

Hardware

Ports

Halo H85X: 1× 2.5 Gbps Port +
2× 1 Gbps Ports
Halo H80X: 3× 1 Gbps Ports
(WAN/LAN auto-sensing)

Button

Reset button

Dimensions (W x D x H)

128 × 81 × 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 H85X (3-pack):

1× Halo H85X Unit + 2× Halo H80X Units
1× RJ45 Ethernet Cable
3× Power Adapters
1× Quick Installation Guide

Package Contents for Halo H85X (2-pack):

1× Halo H85X Unit + 1× Halo H80X Unit
1× RJ45 Ethernet Cable
2× Power Adapters
1× 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. Actual wireless data throughput, wireless coverage, and quantity of connected devices are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

ΔUse of Wi-Fi 6 and other features including OFDMA, MU-MIMO, 1024-QAM, HE160, and BSS Color requires clients to also support the corresponding features. The 160 MHz bandwidth may be unavailable in the 5 GHz band in some regions/countries due to regulatory restrictions. This product may not support all the mandatory features of IEEE 802.11AX specifications. Further software upgrades for feature availability may be required.

§2.5 Gbps and 1 Gbps internet speeds require compatible service plans and equipment. Only the Halo H85X unit has a 2.5 Gbps WAN/LAN port.

*Please note that the Halo H series and S series cannot work together. Halo H85X and Halo H80X are compatible with other units from the Halo H series to form a Mesh network.

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

***Use of WPA3 requires clients to also support WPA3.