# AC1200 Whole Home Mesh Wi-Fi System
## Model: Halo S12

## // Highlights

- One Unified Network – Run a single home network with one Wi-Fi name and password
- Seamless Roaming – Choose the best signal and enjoy the best connections for all your devices
- MU-MIMO Technology – Simultaneously transfers data to multiple devices for 2x faster performance

# // Applications

Ideal for large homes with multiple rooms and multiple users
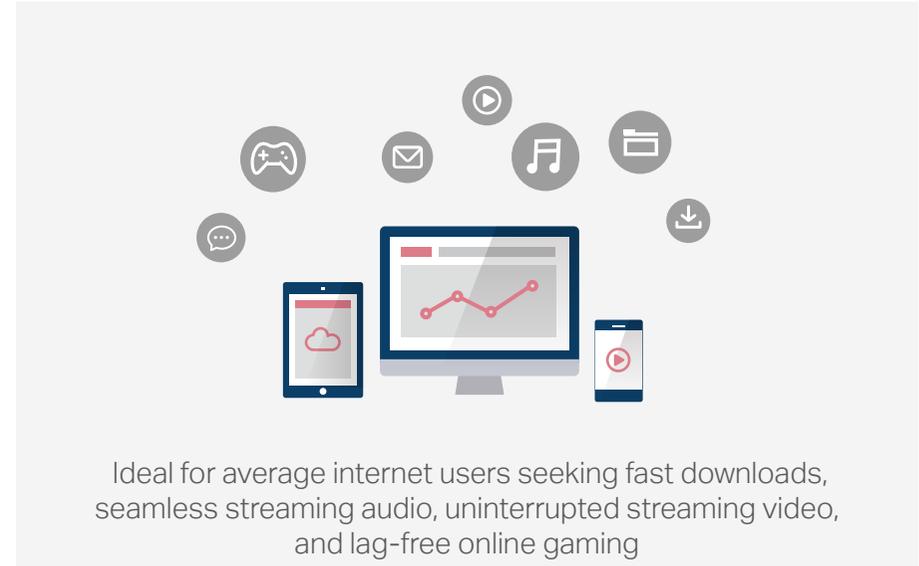
Ideal for average internet users seeking fast downloads, seamless streaming audio, uninterrupted streaming video, and lag-free online gaming

# // Features

## Speed
Wireless Speed – Wireless speed of up to 300 Mbps on 2.4 GHz, 867 Mbps on 5 GHz

## Range
Blanket up to 2,800 ft² (260 m²) with high-speed Wi-Fi

## Easy Setup
Quick Installation – Intuitive webpage supports quick, hassle free installation

## Security
Guest Network – Creates a separate network for your guests to ensure safety

Parental Controls – Parents can establish appropriate access policies for children devices

# // Mercusys Mesh Technology

Halo works as a unified system to guarantee a strong Wi-Fi signal in every corner of your home. It provides an incredibly fast and stable usage experience when you walk around your home. Interruption and buffering will be a thing of the past.



5 GHz wireless connection
2.4 GHz wireless connection
Internet
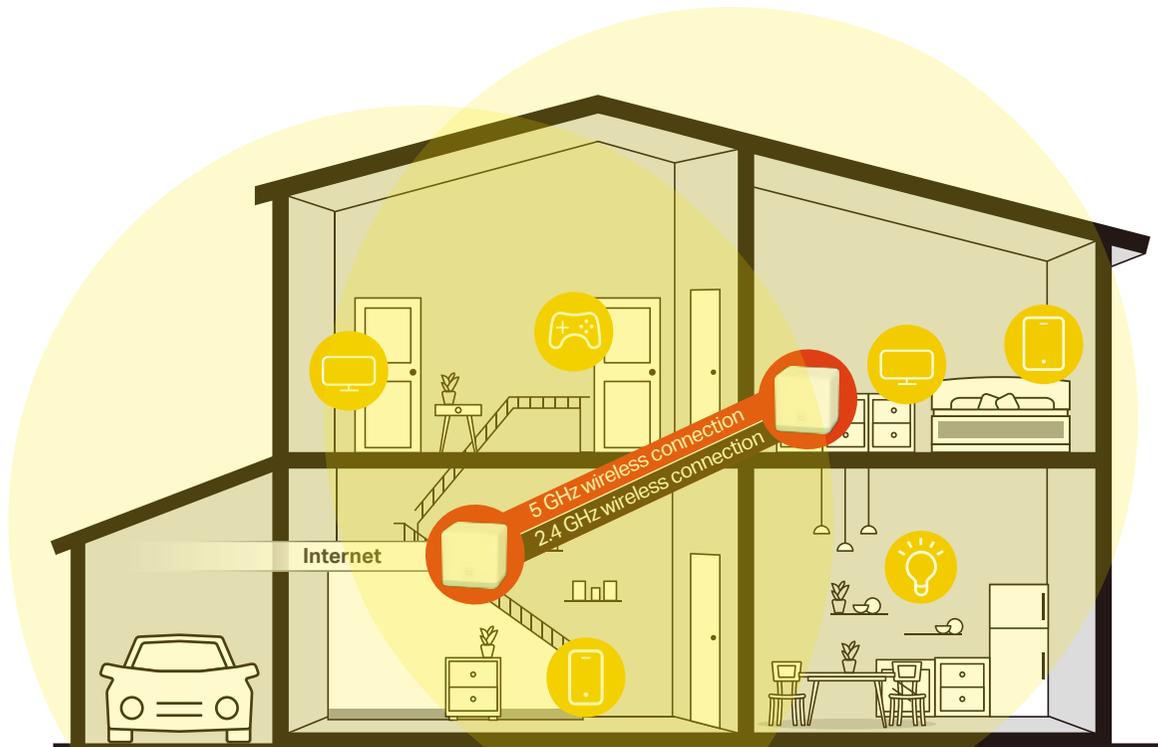
### Seamless Roaming

Intelligently connects devices to the Halo with the strongest signal and highest capacity. No more sudden signal drops or lagging Wi-Fi when you're roaming at home.

### Self-Healing

If one AP node drops in a multi-node mesh network, the system will reconfigure automatically based on the other nodes. Data connectivity is always maintained and there is no interruption experience at all.

### Work with All Halo Devices

Halo S12 is compatible with every other Halo model to form a Mesh network. Expand Wi-Fi coverage anytime by simply adding more Halos.

# // Specifications

## Physical Specifications

### Ports
2 10/100 Mbps ports per Halo unit
(WAN/LAN auto-sensing)

### Button
Pair button, Reset button

### External Power Supply
9V/0.85A

### Dimensions (W x D x H)
3.5 × 3.5 × 3.5 in (88 × 88 × 88 mm)

### Package Contents(2-pack)
• 2× Halo S12 Units
• 1× RJ45 Ethernet Cable
• 2× Power Adapters
• 1× Quick Installation Guide

## Wireless Specifications

### Wireless Standards
IEEE 802.11 a/b/g/n/ac

### Frequency
2.4 GHz, 5GHz

### Mesh protocol
802.11k/v

### Signal Rate
300 Mbps on 2.4 GHz, 867 Mbps on 5 GHz

### Transmit Power
2.4 GHz: <20dBm(EIRP)
5 GHz:  <23dBm(EIRP)

### Reception Sensitivity
• 11g 6M: -95dBm
• 11g 54M: -77dBm
• 11n 20M MCS7: -75dBm
• 11n 40M MCS7: -72dBm

### Wireless Function
Enable/Disable Wireless Radio, Wireless Statistics

### Wireless Security
WPA2-PSK + AES

## Operation Specifications

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

### DHCP
Server, Address Reservation, DHCP Client List

### Port Forwarding
Virtual Server, UPnP, DMZ, Port Triggering

### Management
Access Control
Local Management
Remote Management

### Protocols
IPv4, IPv6

### Guest Network
2.4 GHz Guest Network
5 GHz Guest Network

### Environment
• Operating Temperature: 0°C~40°C (32°F~104°F)
• Storage Temperature: -40°C~70°C (-40°F~158°F)
• Operating Humidity: 10%~90% Non-Condensing
• Storage Humidity: 5%~90% Non-Condensing