

AX3000 Whole Home Mesh Wi-Fi AP

MODEL: HX510



Overview

Advanced Mesh Powered by WiFi 6

Armed with WiFi 6 technology, HX510 provides faster speeds up to 3.0 Gbps for buffer-free 8K/4K streaming and gaming even with all smart home, mobile, and other electronic devices connected.

Whole Home Coverage

Empowered by EasyMesh technology, HX510 provides a strong WiFi signal in every corner of your home. Wireless connections and optional Ethernet backhaul work together to link each unit, providing even faster network speeds and truly seamless coverage. Want more coverage? Simply add another HX510 unit whenever you want.



AX3000 Dual Band Wi-Fi

Combined with the new Wi-Fi technology, including 1024QAM, HE160 and 4x Longer OFDMA Symbol, HX510 leads up to 574 Mbps on the 2.4GHz band and 2402 Mbps on the 5GHz band.



More Ethernet Ports for More Options

Each unit has 3 Gigabit Ethernet ports for fast and reliable wired connections. Supports Ethernet Backhaul for more stable speeds.



Support TR-069 Remote Management

ISPs can remotely configure and manage devices via their ACS (Auto-Configuration Server) system or the Aginet ACS. High-level operations are also supported thanks to compatibility with TR-181, TR-111, and TR-143 protocols.



EasyMesh Feature Supported

HX510 adopts EasyMesh technology, which has further improved and standardized Wi-Fi functions, such as Wi-Fi diagnostics, channel selection and traffic separation.

Features



Seamless Roaming with One WiFi Name

All units work together to form one unified network. Your mobile device will automatically connect to the fastest unit when you move through your home, creating a truly seamless WiFi experience.



More Connections, No More Buffering

Enhanced by WiFi 6, featuring with OFDMA and 160 MHz bandwidth, HX510 allows you to connect more devices simultaneously. Enjoy a more efficient network that loads faster without dragging down performance.



Extensive WiFi Coverage

Beamforming technology and high-performance antennas combine to adapt WiFi coverage to perfectly fit home and concentrate signal strength towards every device.



Easy to Set Up and Use

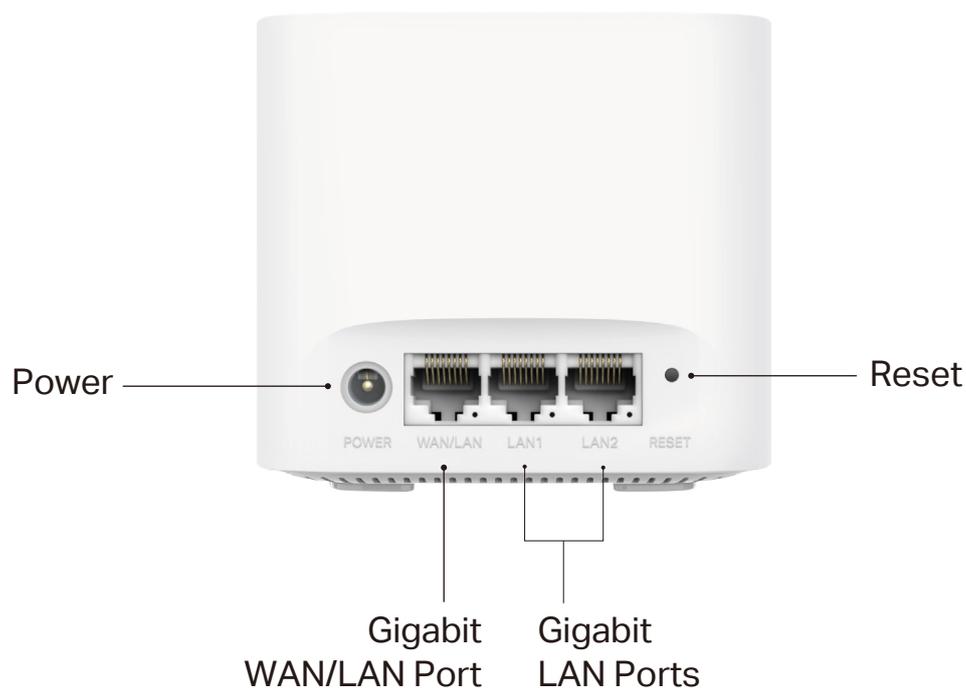
You can set up your device and network in minutes, whether you prefer the powerful Aginet app or the intuitive web interface. The Aginet app allows you to manage your network from a smartphone or tablet.



Aginet Solution: End-to-End Management System for ISPs

The Aginet solution offers ISPs powerful and flexible platforms to manage multiple devices for connected homes, such as dynamic service provisioning, zero-touch firmware upgrading, and remote troubleshooting and mesh WiFi diagnostics.

Hardware Description



Specifications

Hardware

- **Interface**
 - 2× 10/100/1000 Mbps RJ45 LAN Ports
 - 1× 10/100/1000 Mbps RJ45 WAN/LAN Port
- **Antenna**
 - Internal antennas
- **External Power Supply**
 - 12VDC/1.5A
- **Dimensions (W * D * H)**
 - 4.7 x 4.7 x 3.8 in (120 x 120 x 96.5 mm)
- **Button**
 - WPS Button, Reset Button
- **CPU**
 - Dual-Core, 1.0 GHz

Wireless

- **Wireless Standards**
 - IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n/ax 2.4 GHz
- **Signal Rate**
 - 2402 Mbps at 5GHz, 574 Mbps at 2.4GHz
- **Transmit Power**
 - CE: <20 dBm (2.4 GHz), <23 dBm (5 GHz),
FCC: <30 dBm
- **Wireless Security**
 - WPA/WPA2/WPA2+WPA3-Personal
- **Wireless Function**
 - Enable/Disable Wireless Radio, WMM, Wireless Statistics, Multi-SSID, Guest Network, TX Beamforming, Beamforming, Band Steering, Airtime Fairness
- **Support EasyMesh**
 - Seamless Roaming, Self-healing, Support 802.11k/v/r

Software

- **Working Mode**
 - Router Mode, AP Mode
- **WAN Type**
 - Dynamic IP/Static IP/PPPoE/L2TP/PPTP
- **Protocols**
 - Supports IPv4 and IPv6
- **Multi SSID**
 - Up to 3 SSIDs for each band (including main SSID)
- **Features**
 - Parental Control, Firewall, IPSEC VPN, IPv6, Port Forwarding, NAT Forwarding, Address Reservation, QoS(Quality of Service), CWMP, Network Diagnosis, Traffic Statistic, Cloud upgrade, 1024-QAM, OFDMA, EasyMesh
- **Management**
 - Local management: WebGUI management, Aginet app management
 - Remote management: TR-069, TR-181, TR-369, TR-111, TR-143
 - Cloud management: TAUC (TP-Link Aginet Unified Cloud)
- **DHCP**
 - Server, Client
- **Firewall Security**
 - DoS, SPI Firewall, IP and MAC Address Binding
- **Support IPTV, IGMPV2/3 and IGMP Snooping**
- **Schedule**
 - LED Schedule, Wi-Fi Schedule

Others

- **System Requirements**
 - Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, 8, 8.1, 10, MAC OS, NetWare, UNIX or Linux Internet Explorer 11, Firefox 12.0, Chrome 20.0, Safari 4.0 browsers or higher.
- **Certification**
 - CE, FCC, Wi-Fi 6, EasyMesh
- **Environment**
 - Operating Temperature: 0°C~40°C (32°F ~104°F)
 - Storage Temperature: -40°C~60°C (-40°F ~140°F)
 - Operating Humidity: 10%~90% non-condensing
 - Storage Humidity: 5%~90% non-condensing
- **Package Contents**
 - AX3000 Whole Home Mesh Wi-Fi AP HX510
 - 1× RJ45 Ethernet Cable
 - 1× Power Adapter
 - 1× Quick Installation Guide