

## BE22000 Whole Home Mesh Wi-Fi 7 AP

MODEL: HB810



## Wi-Fi 7, Wi-Fi Like Never Before

Wi-Fi 7 has arrived with jam-dropping performance - offering accelerated throughput, lower latency, stronger anti-jamming and higher efficiency. Join the league of pros and experience the sheer performance of the next generation Wi-Fi.

HB810 features Wi-Fi 7 with the latest 6 GHz band, 320 MHz bandwidth, 4K-QAM, and Multi-RU for a combined speed of up to 22 Gbps, creating whole home multi-gigabit coverage.



### 22 Gbps 12-Stream Tri-Band Wi-Fi

Achieve up to 22 Gbps with Wi-Fi 7 technology: 4K-QAM, 6 GHz band with 320 MHz channels, and 12-Stream Tri-Band. Enjoy full access to 8K streaming and multi-gig downloading.



### Outstanding 10 Gbps Wired Performance

Equipped with two 10 Gbps ports — one Ethernet/SFP+ combo WAN/LAN port and one Ethernet LAN port — HB810 provides flexible support for both fiber and copper connections. The additional two 2.5 Gbps ports and USB 3.0 port make it an ideal solution for future-proofing your home network.



### Faster Speeds to Power Your Devices

Multi-Link Operation (MLO) enables HB810 to transmit data with Wi-Fi 7 clients across the 6 GHz and 5 GHz bands simultaneously, delivering faster Wi-Fi speeds than Wi-Fi 6/6E mesh.



### The Ultimate Backhaul

With the latest Wi-Fi 7 technology, the system's wireless backhaul aggregation flow rate is increased. This way, it greatly improves overall throughput and reduces latency, delivering broader coverage with more stable and reliable connections.

# Specifications

## Hardware

- Ethernet Port
  - 1× Ethernet/SFP+ combo 10 Gbps WAN/LAN port,
  - 1× 10 Gbps RJ45 LAN Port,
  - 2× 2.5 Gbps RJ45 LAN Ports,
  - 1× USB 3.0 Port
- Button
  - 1× RESET button at the bottom,
  - 1× WPS button on the back
- Dimensions (W × D × H)
  - 5.04 × 5.04 × 9.29 in (128 × 128 × 236 mm)
- Power Adapter Input
  - 100-240V~50/60Hz
- Power Adapter Output
  - 12VDC/4.5A
- Max Power Consumption
  - US/CA: 51W
- Heat Dissipation
  - Active

## Wireless

- Wireless Standards
  - IEEE 802.11be/ax 6 GHz,
  - IEEE 802.11be/ax/ac/n/a 5 GHz,
  - IEEE 802.11be/ax/n/g/b 2.4 GHz
- Mesh protocol
  - 802.11k/v/r
- Frequency
  - 6 GHz, 5 GHz, 2.4 GHz
- Signal Rate
  - 6 GHz: 11520 Mbps (802.11be, 4×4 MIMO)
  - 5 GHz: 8640 Mbps (802.11be, 4×4 MIMO)
  - 2.4 GHz: 1376 Mbps (802.11be, 4×4 MIMO)
- Transmit Power
  - FCC: <30 dBm(6 GHz), <30 dBm(5 GHz), <30 dBm(2.4 GHz)
- Wireless Security
  - WPA/WPA2/WPA3 Personal

## Software

- Working Mode
  - Router Mode, Access Point Mode
- WAN Type
  - Dynamic IP/Static IP/PPPoE/PPTP/L2TP
- DHCP
  - Server, DHCP Client List, Address Reservation
- Protocols
  - Supports IPv4 and IPv6
- Multi SSID
  - Up to 3 SSIDs for each band (including main SSID)
- Features
  - Multi-Link Operation (MLO), 320 MHz Bandwidth, 4K-QAM, Multi-RU, MU-MIMO, OFDMA, BSS Color, Parental Control, QoS (Quality of Service), Port Forwarding, Cloud Firmware Upgrade, Firewall, Network Diagnostic, CWMP, Traffic Statistic
- Management
  - Local management: WebGUI management, Aginet app management
  - Remote management: TR-069, TR-181, TR-369, TR-111, TR-143
  - Cloud management: TAUC
- Dynamic DNS
  - NO-IP, DynDNS, TP-Link
- VPN Server
  - PPTP, OpenVPN, IPSec
- VPN Pass-through
  - IPSec, PPTP, L2TP
- Access Control
  - Parental Control, Local Management, Host List, White/Black List
- Firewall Security
  - DoS, SPI Firewall, IP and MAC Address Binding

## Others

- Certification
  - FCC, RoHS
- 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% RH
  - Storage Humidity: 5%~90% RH
- Package Contents for HB810
  - 1× BE22000 Whole Home Mesh Wi-Fi 7 AP HB810
  - 1× RJ45 Ethernet cable
  - 1× Power adapter
  - 1× Quick Installation Guide

## Features



### Down to the Last Detail

TP-Link's in-house component research and thorough hardware selection ensure the quality and value of the entire mesh system. Everything comes together to form the perfect Mesh device HB810.



### EasyMesh Technology

HB810 adapts this standard for improved compatibility and functionality, including Wi-Fi diagnostics, channel selection, and traffic separation. Walk through your home and enjoy seamless streaming at the fastest possible speeds.



### Simple. Easy. Yet Powerful.

Setup and manage your network anytime and anywhere on the friendly TP-Link Aginet app. In just three easy steps your entire home can be blanketed in strong and reliable Wi-Fi.

## Hardware Description

