

# BE22000 Whole Home Mesh Wi-Fi 7 AP

MODEL: HB810



## WiFi 7, WiFi Like Never Before

WiFi 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 WiFi.

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 WiFi 7 MLO 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.

## 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

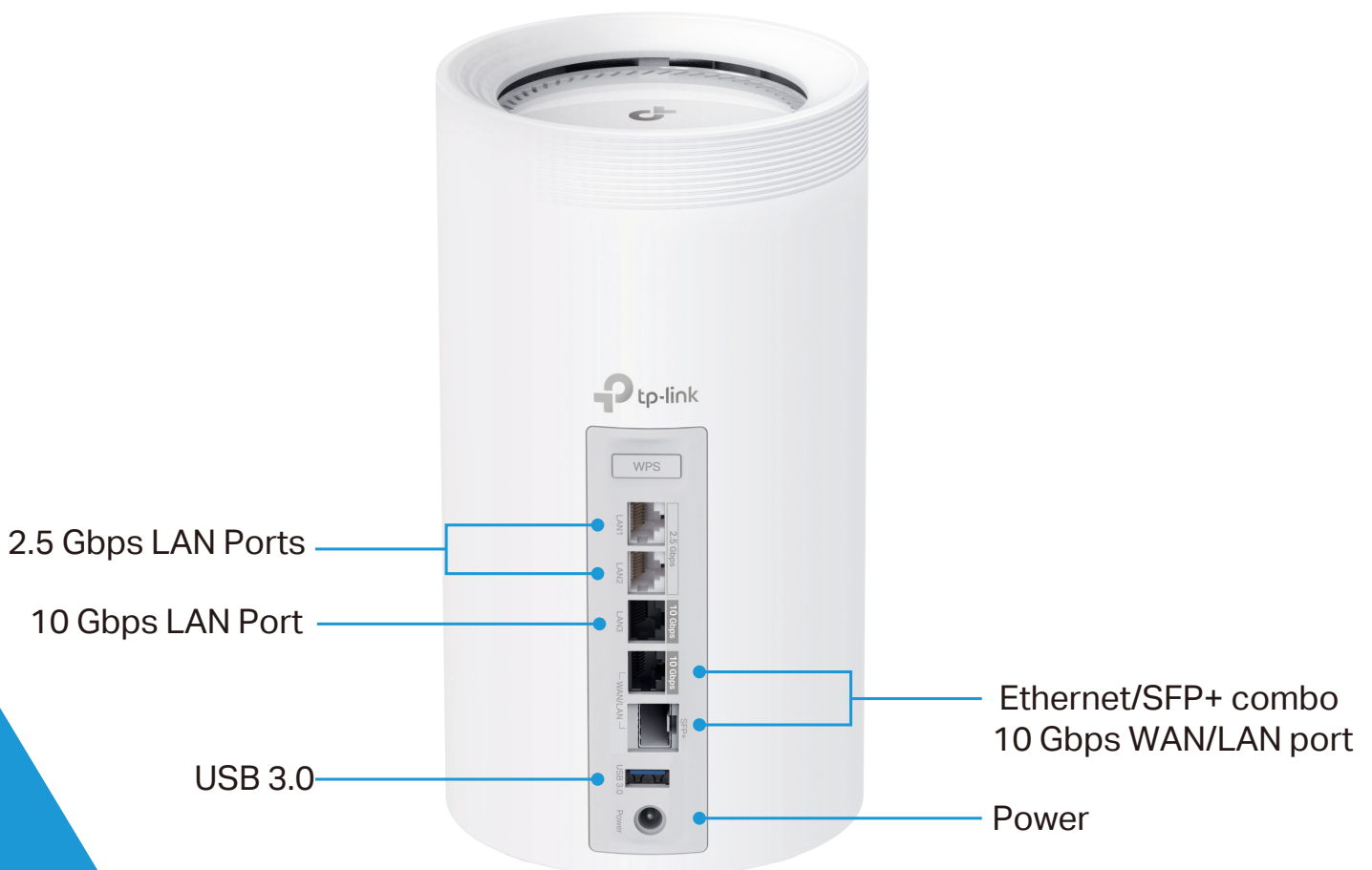
HB810 adapts this standard for improved compatibility and functionality, including Wi-Fi diagnostics, channel selection, and traffic separation. Walk through your home and enjoy seamless streaming at the fastest possible speeds.



### 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 WiFi.

## Hardware Description



# 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/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