

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.



4.2x 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 4.2x 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

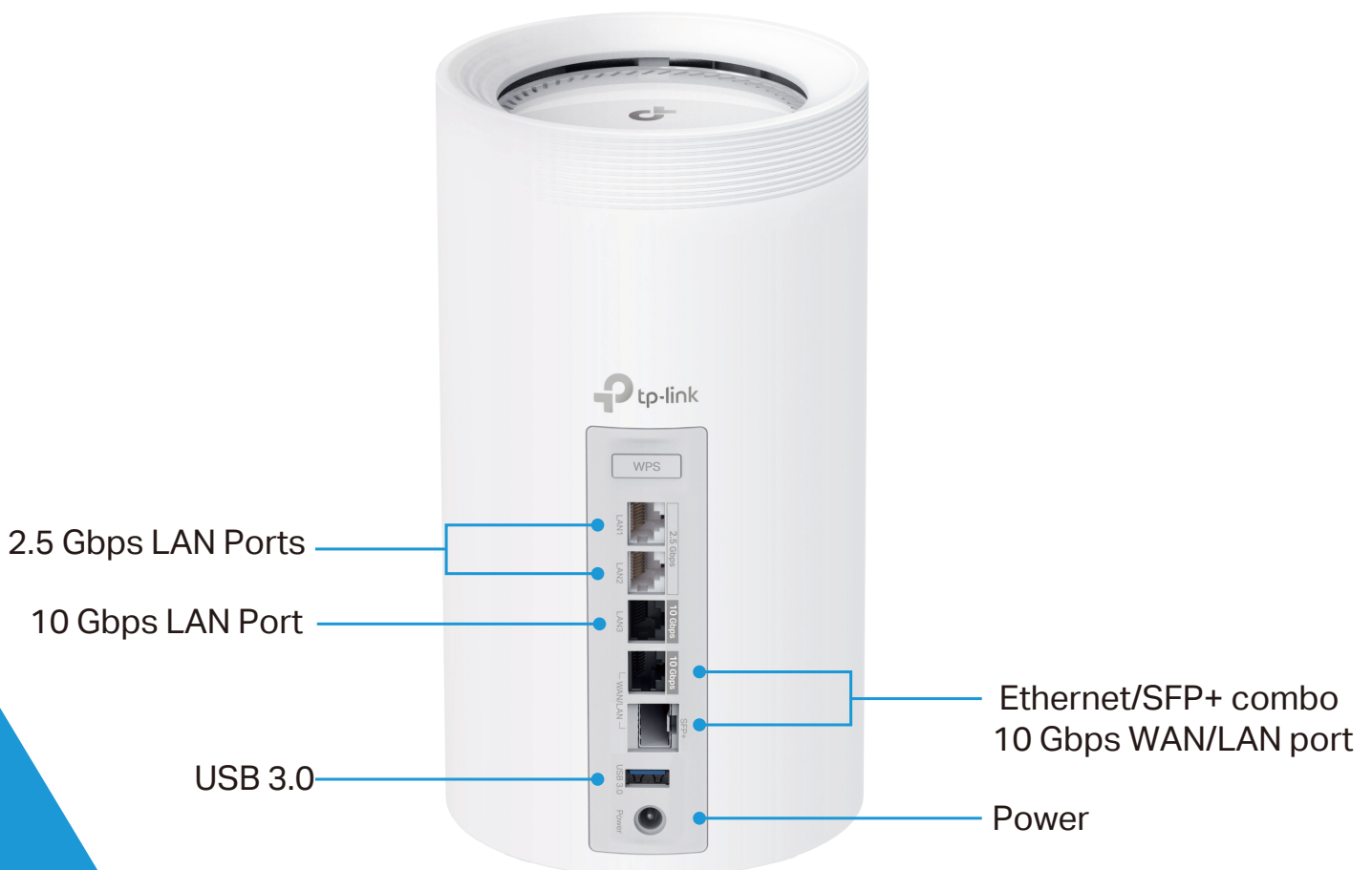
HB810 adapts this standard for improved compatibility and functionality, including Wi-Fi diagnostics, channel selection, and traffic separation. Walk through your home and enjoy seamless streaming at the fastest possible speeds.



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
 - 15V/5A

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)
 - 5 GHz: 8640 Mbps (802.11be)
 - 2.4 GHz: 1376 Mbps (802.11be)
- Transmit Power
 - FCC: <30 dBm(6 GHz), <30 dBm(5 GHz), <30 dBm(2.4 GHz)
 - CE: <23 dBm(6 GHz), <30 dBm (5 GHz), <20 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