

# BE21000 Whole Home Mesh Wi-Fi 7 AP

MODEL: HB710



## Overview

Leveraging the cutting-edge Wi-Fi 7 technology and our expertise in Wi-Fi technology, HB710 offers incredible Wi-Fi speeds up to 21 Gbps, faster than Wi-Fi 6E/Wi-Fi 6. Revel in high-performance Wi-Fi experiences across all three bands with higher speeds and lower latency thanks to a groundbreaking mix of 4K-QAM, multi-link operation, multi-RU, and 10 simultaneous spatial streams. With a 10 GbE WAN/LAN port and a 10 GbE LAN port, you now have access to 10 Gbps ultra-fast internet access and a more robust smart mesh network for fully connected home.



### 21 Gbps Tri-Band Wi-Fi

Deliver total Wi-Fi speeds up to 21 Gbps across 6 GHz, 5 GHz, and 2.4 GHz bands for even faster speeds, lower latency, and better online experience.



### 10G Multi-Gig Connectivity

Take full use of the bandwidth speeds to 10 Gbps through a 10 GbE WAN/LAN port and a 10 GbE LAN port for blazing-fast wired connections.



### Increased Capacity

Connect over 200 devices simultaneously with a more efficient network that loads faster without dragging down performance.



### Multi-link Operation (MLO)

Achieve higher throughput for each device with lower latency and higher reliability via multi-link aggregation across three bands.

## Features



### Easy to Set Up and Use

Set up your device and network in minutes, whether you prefer the powerful Aginet app or the intuitive web interface.



### EasyMesh Compatible

HB710 adopts standard EasyMesh technology. All compatible units can work together to form a mesh network to cover every corner of a home.



### Easy Remote Management

TR-069/TR-369 protocols and TAUC (TP-Link Aginet Unified Cloud) are supported, service providers can manage multiple devices remotely.



### Whole Home Coverage

All units work together to form a unified mesh network that covers every corner of your home based on standard EasyMesh technology.



### Enhanced Security

WPA3 encryption, Multi-SSID, and parental controls provide personalized and safer online experience.

## Hardware Description



# Specifications

## Hardware

- Ethernet Port
  - 1× 10 Gbps RJ45 WAN/LAN Port,
  - 1× 10 Gbps RJ45 LAN Port,
  - 1× USB 2.0 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/3.3A
- Max Power Consumption
  - US/CA: 39W
- CPU
  - Quad-core @ 1.5 GHz CPU
- Antenna
  - Internal Wi-Fi antennas
- Cooling Method
  - 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: 688 Mbps (802.11be, 2×2 MIMO)
- Transmit Power
  - FCC&IC: <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)
  - IMDA: <24 dBm(6 GHz), <30 dBm(5 GHz), <23 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/L2TP/PPTP(Multi-EWAN)
- DHCP
  - Server, DHCP Client List, Address Reservation
- Protocols
  - Supports IPv4 and IPv6
- Guest Network
  - 1× 6 GHz Guest Network
  - 1× 5 GHz Guest Network
  - 1× 2.4 GHz Guest Network
- Features
  - Multi-Link Operation (MLO), 320 MHz Bandwidth, 4K-QAM, Multi-RU, MU-MIMO, OFDMA, BSS Color, Beamforming, Band Steering, Airtime Fairness, WiFi Schedule, Wireless Statistics, Guest Network, 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: TP-Link Aginet Unified Cloud (TAUC)
- Multi SSID
  - Up to 3 SSIDs for each band (including main SSID)
- 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, CE, IC
- 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 HB710
  - 1× Whole Home Mesh Wi-Fi 7 AP HB710
  - 1× RJ45 Ethernet cable
  - 1× Power adapter
  - 1× Quick Installation Guide