# BE11000
# Whole Home
# Mesh Wi-Fi 7 AP

## MODEL: HB610

# Overview

Leveraging the cutting-edge Wi-Fi 7 technology and our expertise in Wi-Fi technology, HB610 offers ultra-fast Wi-Fi speeds up to 11 Gbps. Enjoy improved 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 6 simultaneous spatial streams. With 2.5 GbE WAN/LAN port and three 2.5 GbE LAN ports, you can enjoy multi-gig internet access and a robust smart mesh network for fully connected home.

### 11 Gbps Tri-Band Wi-Fi

Deliver total Wi-Fi speeds up to 11 Gbps across 6 GHz, 5 GHz, and 2.4 GHz bands with lower latency and better online experiences.

### Full 2.5G Multi-Gig Connectivity

Boost whole internet throughput up to 2.5 Gbps for smoother and faster online activities. Three 2.5 GbE LAN ports offers ultra-fast and flexible internet access.

### Increased Capacity

Connect over 200 devices simultaneously with a more efficient network that loads faster with high 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**

HB610 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.
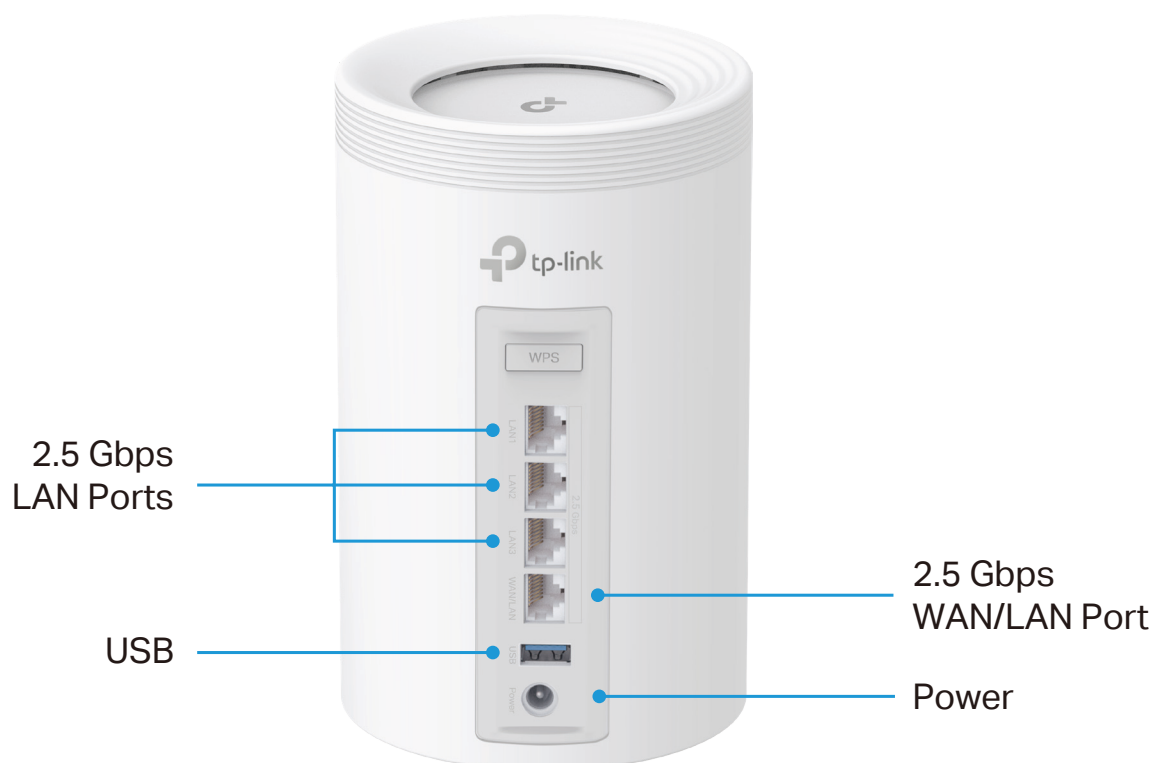
**Whole Home Coverage**

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



2.5 Gbps LAN Ports

USB

2.5 Gbps WAN/LAN Port

Power

# Specifications

## Hardware

- **Ethernet Port**

  3× 10/100/1000/2500 Mbps RJ45 LAN Ports,
  1× 10/100/1000/2500 Mbps RJ45 WAN/LAN Port,
  1× USB 3.0 Port

- **Button**

  1× RESET button at the bottom,
  1× WPS button on the back

- **Power Consumption**

  27.5 W max (without power adapter)

- **Dimensions (W × D × H)**

  4.23 × 4.23 × 6.93 in (107.5 × 107.5 × 176 mm)

- **Power Adapter Input**

  100-240V~50/60Hz

- **Power Adapter Output**

  12VDC/2.5A

- **Max Power Consumption**

  US/CA: 27.6W

- **CPU**

  Quad-core @ 1.5 GHz CPU

- **Antenna**

  Internal Wi-Fi antennas

- **Heat Dissipation**

  Passive

## 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: 5760 Mbps (802.11be, 2×2 MIMO)
  5 GHz: 4320 Mbps (802.11be, 2×2 MIMO)
  2.4 GHz: 688 Mbps (802.11be, 2×2 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/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, 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

- **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, RoHS

- **Environment**

  Operating Temperature: 0°C~40°C (32°F~104°F)
  Storage Temperature: -40°C~70°C (-40°F~158°F)
  Operating Humidity: 10%~90%RH
  Storage Humidity: 5%~90%RH

- **Package Contents for HB610**

  1× BE11000 Whole Home Mesh Wi-Fi 7 AP  HB610
  1× RJ45 Ethernet cable
  1× Power adapter
  1× Quick Installation Guide