tp-link | Aginet

BE9300 Whole Home Mesh Wi-Fi 7 AP

MODEL: HB412



Overview

Leveraging the cutting-edge Wi-Fi 7 technology and our expertise in Wi-Fi technology, HB412 offers incredible Wi-Fi speeds up to 9.3 Gbps, faster than Wi-Fi 6E/Wi-Fi 6. Revel in high-performance Wi-Fi experiences across all two 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 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.

9.3 Gbps Dual-Band Wi-Fi

Deliver total Wi-Fi speeds up to 9.3 Gbps across 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 two 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

HB412 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.

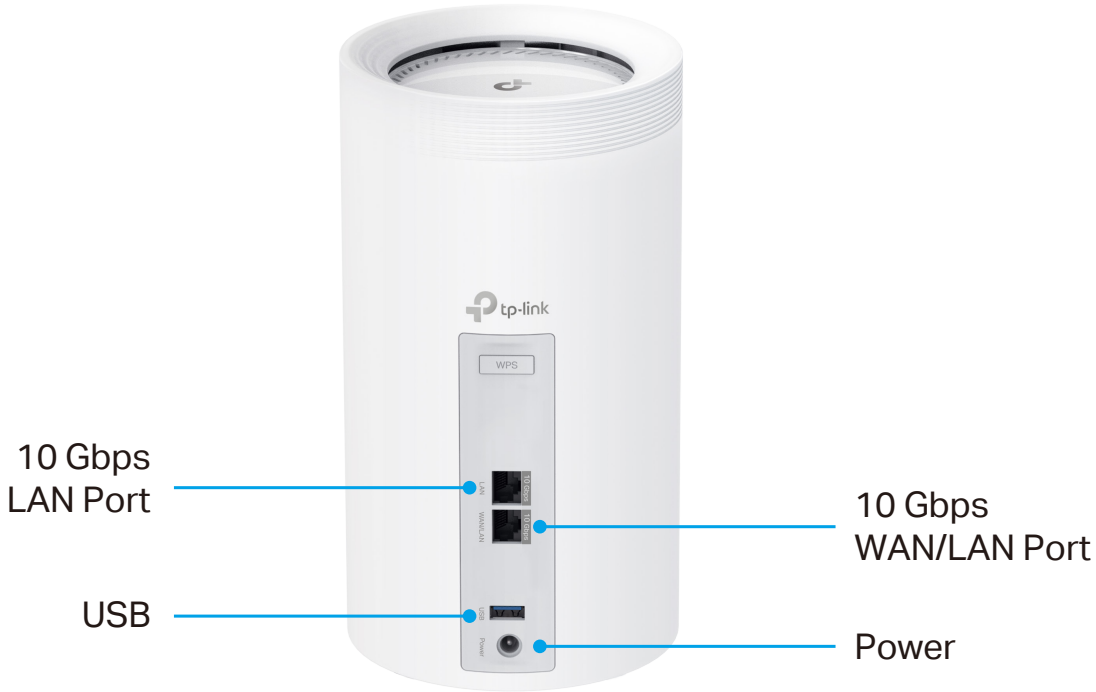
Whole Home Coverage

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/2.5A

- CPU

  Quad-core @ 1.5 GHz CPU

- Antenna

  Internal Wi-Fi antennas

- Cooling Method

  Passive

Wireless

- Wireless Standards

  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

  5 GHz, 2.4 GHz

- Signal Rate

  5 GHz: 8640 Mbps (802.11be, 4×4 MIMO)
  2.4 GHz: 688 Mbps (802.11be, 2×2 MIMO)

- Transmit Power

  IMDA: <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× 5 GHz Guest Network
  1× 2.4 GHz Guest Network

- Features

  Multi-Link Operation (MLO), 240 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

  IMDA, CLS Level I

- 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 HB412

  1× Whole Home Mesh Wi-Fi 7 AP HB412
  1× RJ45 Ethernet cable
  1× Power adapter
  1× Quick Installation Guide