

BE11000 Whole Home Mesh Wi-Fi 7 AP

MODEL: HB610



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.

HB610 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 11 Gbps, creating whole home multi-gigabit coverage.



Whole Home Multi-Gigabit Connectivity

Every room where a HB610 is located receives 9-10 Gbps of wireless speeds, gradually decreasing with distance. Most of the tested villa clocks in at 7-8 Gbps. Due to a large number of walls, the edge of the home receives around 5-6 Gbps.



Outstanding 2.5 Gbps Wired Performance

Equipped with one 2.5 Gbps WAN/LAN port — HB610 provides stronger support for network connections. The additional three 2.5 Gbps ports and USB 3.0 port make it an ideal solution for future-proofing your home network.



Blazing-Fast WiFi for Top Performance

Experience a high-end Tri-Band Whole Home WiFi 7 Mesh system with blazing-fast WiFi speeds up to 22 Gbps. Now, every device in your home network will run at top performance. The exclusive 6 GHz band provides exceptional bandwidth and congestion-free channels exclusive to your devices.



The Stronger and More Flexible Backhaul

Through our self-developed technology, HB610 can connect a wireless and wired backhaul with each unit simultaneously. What's more, with the latest WiFi 7 MLO technology, the system's wireless and wired combined 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.

Specifications

Hardware

- Ethernet Port
 - 3× 2.5 Gbps RJ45 LAN Ports
 - 1× 2.5 Gbps RJ45 WAN/LAN Port
 - 1× USB 3.0 Port
- Button
 - 1× RESET button at the bottom
- 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 1A
- Power Adapter Output
 - 12V/3.3A

Wireless

- Wireless Standards
 - IEEE 802.11be/ax 6 GHz
 - IEEE 802.11be/ax/ac/n/a 5 GHz
 - IEEE 802.11be/ax/n/b/g 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)
 - 5 GHz: 4320 Mbps (802.11be)
 - 2.4 GHz: 574 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-PSK/WPA3 encryptions

Software

- Working Mode
 - Router Mode, Access Point Mode
- WAN Type
 - Dynamic IP/Static IP/PPPoE/L2TP/PPTP
- DHCP
 - Server
- Protocols
 - Supports IPv4 and IPv6
- Guest Network
 - 1× 6 GHz Guest Network
 - 1× 5 GHz Guest Network
 - 1× 2.4 GHz Guest Network
- Features
 - TP-Link HomeShield, Multi-Link Operation (MLO), 320 MHz Bandwidth, 4K-QAM, Multi-RU, MU-MIMO, OFDMA, BSS Color
- Management
 - Local Management; Remote Management; Multi-Managers

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

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 HB610.



EasyMesh Technology

HB610 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

