tp-link

BE6500

Wi-Fi 7 High Gain Wireless USB Adapter



Wi-Fi 7

Archer TBE6500UH

Unrivaled Wi-Fi 7 Technology
Supercharges your PC with Wi-Fi 7

Unparalleled Tri-Band Speed
2882 Mbps + 2882 Mbps + 688 Mbps†

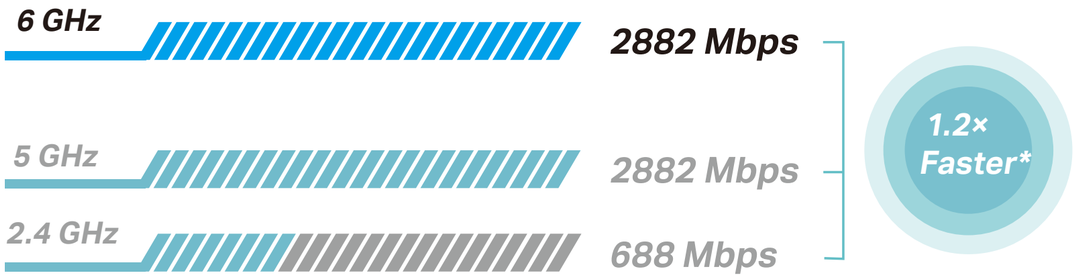
Maximized Signal Coverage
High-gain antennas and a detachable base

Advanced Security
The latest WPA3 encryption△

Highlights

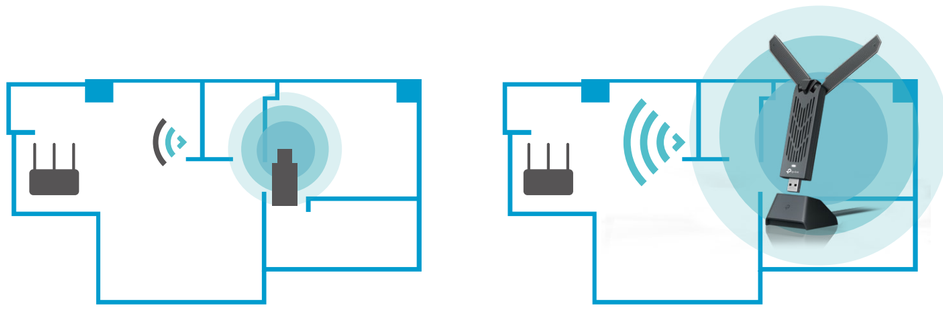
Upgrade Your PC to Cutting-edge Wi-Fi 7

Wi-Fi 7 offers the forefront of technology to maximize the 6 GHz band. With 4096-QAM, TBE6500UH delivers peak rates 1.2× faster than Wi-Fi 6/6E adapters, ensuring a seamless network experience. ‡*



Boost Your Wi-Fi Reception

Two bifurcated high-gain antennas and a detachable cradle with a 1.2-meter cable combine with beamforming technology to concentrate Wi-Fi signals toward your router for enhanced reception and reliable connections from a distance.



Regular Adapter

Archer TBE6500UH

Features

Speed

- Unparalleled Tri-Band Speed – Cutting-edge Wi-Fi 7 - Congestion-free speeds up to 2882 Mbps (6 GHz) + 2882 Mbps (5 GHz) + 688 Mbps (2.4 GHz) are ideal for instant multi-stream media playback.
- Ultra-Low Latency – The revolutionary combo of OFDMA and MU-MIMO ensures the most efficient Wi-Fi connection for your PC, reducing latency for faster speeds.‡
- Super Speed USB 3.0 – Experience blazing-fast data transfers with USB 3.0 —the latest USB standard which is 10× faster than USB 2.0.**

Design

- Adjustable Antenna – Rotate and adjust the multi-directional antenna to improve user experience and performance in different environments.

Reliability

- Tri-Band Wireless – 2.4 GHz, 5 GHz and 6 GHz bands for flexible connectivity.

Ease of Use

- Easy Installation – There's no need for a physical CD driver with Archer TBE6500UH's built-in driver. Enjoy a simple and user-friendly installation.

Security

- Highly Secure WPA3 – The latest encryption technology eliminates brute-force attacks and provides better security.△

Specifications

WLAN Features

- Wireless Standards: IEEE 802.11a/b/g/n/ac/ax/be
- Signal Rate:

  6 GHz:

  11be: Up to 2882 Mbps(dynamic)

  11ax: Up to 2402 Mbps(dynamic)

  5 GHz:

  11be: Up to 2882 Mbps(dynamic)

  11ax: Up to 2402 Mbps(dynamic)

  11ac: Up to 1732 Mbps(dynamic)

  11n: Up to 300 Mbps(dynamic)

  11a: Up to 54 Mbps(dynamic)

  2.4 GHz:

  11be: Up to 688 Mbps(dynamic)

  11ax: Up to 574 Mbps(dynamic)

  11n: Up to 300 Mbps(dynamic)

  11g: Up to 54 Mbps(dynamic)

  11b: Up to 11 Mbps(dynamic)

- Wireless Modes: Infrastructure mode
- Wireless Security: WPA/WPA2/WPA3, WPA-PSK/WPA2-PSK△

Hardware

- Dimensions: 30 × 17.7 × 107 mm (1.2 × 0.7 × 4.2 in)
- Antennas: High-Gain Tri-Band Antennas

Others

- Package Contents

  BE6500 Wi-Fi 7 High Gain Wireless USB Adapter Archer TBE6500UH

  Quick Installation Guide

  USB 3.0 Cradle

- Certification: FCC, CE, RoHS
- System Requirements: Windows 10/11§
- Environment

  Operating Temperature: 0°C~40°C (32°F ~104°F)

  Operating Humidity: 10%~90% non-condensing

  Storage Humidity: 5%~90% non-condensing

Windows Compatible

For more information, please visit
https://www.tp-link.com/products/details/?model=Archer+TBE6500UH_V1
or scan the QR code left

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†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of network conditions, AP limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and AP location.
‡Use of Wi-Fi 7 (802.11be), Wi-Fi 6/6E (802.11ax), and other features, including 4096-QAM, Multi-RUs, OFDMA, and MU-MIMO, requires the AP and PC OS to also support the corresponding features. Please try to update the device's driver for feature compatibility.
§Archer TBE6500UH supports 6 GHz on Windows 10 22H2 and later versions, though functionality and performance may be limited.
△Use of WPA3 requires APs to also support the corresponding feature.
*802.11be 4096-QAM enables maximum theoretical data rates, which are 1.2× faster than 802.11ax 1024-QAM as per IEEE 802.11 specifications. This requires the use of compatible 802.11be routers.
**Actual network speed may be limited by the rate of the product's USB port, PCI Express Interface, Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.