

Overview

BE9300 Wi-Fi 7 Bluetooth PCIe Adapter

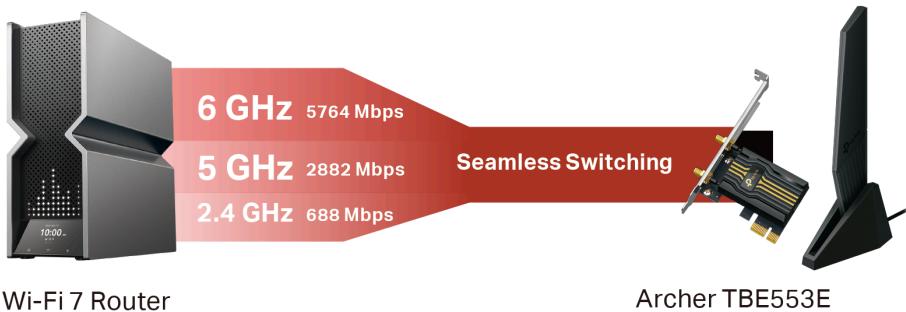


Highlights

Supercharge Your Desktop with Wi-Fi 7

Ensure Lower Latency with MLO

Experience uninterrupted connectivity and reduced latency with MLO technology as the Archer TBE553E seamlessly switches between 2.4GHz, 5GHz, and 6GHz bands, ensuring optimal data transmission without user intervention.[‡]



Broader Coverage

Enhance your connectivity with high-performance and multi-directional antennas featuring a convenient magnetic base. Expand your signal coverage and enjoy uninterrupted streaming throughout your entire home. Feel free to place the base anywhere on your desktop to fit your network needs.



Bluetooth 5.4

Cutting-edge Bluetooth 5.4 offers enhanced reliability and security, ensuring seamless interoperability with game controllers, keyboards, and more. The newly upgraded BLE (Bluetooth Low Energy) significantly reduces power consumption.[§]



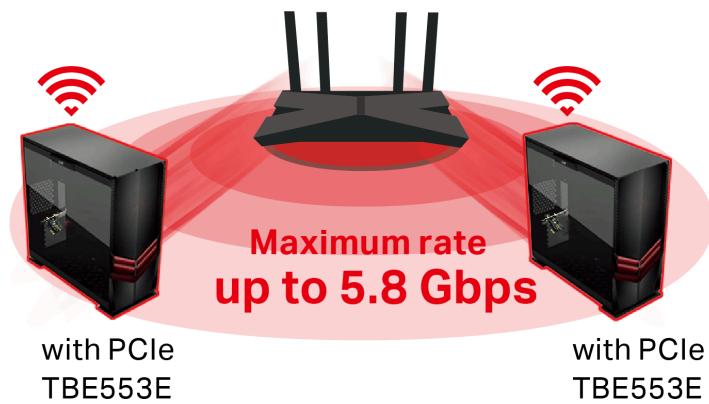
Refined Security

The latest Wi-Fi security protocol, WPA3, brings new capabilities to improve cybersecurity. More secure encryption in Wi-Fi password safety and enhanced protection against brute-force attacks combine to safeguard your home Wi-Fi.^{**}



Superior Wi-Fi Reception

Bring your PC's Wi-Fi reception to the next level and take full advantage of your Wi-Fi 7 router. Archer TBE553E delivers faster and clearer Wi-Fi thanks to its equipped OFDMA and MU-MIMO technology.‡



Low-Profile Bracket

In addition to the full-height bracket, a low-profile bracket is also provided for mini tower computer cases. These customized options give you the flexibility to find a bracket that fits your board design perfectly.



Specification

| WLAN Features | |
|------------------------------|--|
| Wireless Standards | IEEE 802.11a/b/g/n/ac/ax/be |
| Signal Rate | <p>6 GHz: 11be: Up to 5764Mbps(dynamic) 11ax: Up to 2402Mbps(dynamic)</p> <p>5 GHz: 11be: Up to 2882 Mbps(dynamic) 11ax: Up to 2402 Mbps(dynamic) 11ac: Up to 1732 Mbps(dynamic)</p> <p>11n: Up to 300 Mbps(dynamic) 11a: Up to 54 Mbps(dynamic)</p> <p>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)</p> |
| Reception Sensitivity | <p>6 GHz: 11ax HE20 MCS0: -94 dBm 11be EHT320 MCS13: -44dBm</p> <p>5 GHz: 11ac VHT20 MCS0: -94 dBm 11be EHT160 MCS13: -48dBm</p> <p>2.4 GHz: 11n HT20 MSC0: -95 dBm 11be EHT40 MSC13: -56dBm</p> |
| Transmit Power | <p>2.4 GHz: 24dBm(FCC) (EIRP)/ 17dBm(CE) (EIRP)</p> <p>5 GHz: 24dBm(FCC) (EIRP) /19dBm(CE) (EIRP)</p> <p>6 GHz: 18dBm(FCC) (EIRP) /19dBm(CE) (EIRP)</p> |
| Wireless Modes | Infrastructure mode |
| Wireless Security | WPA/WPA2/WPA3, □WPA-PSK/WPA2-PSK* |
| Hardware | |
| Antennas | 1× High-Performance Tri-Band Antenna (2T2R) |
| Dimensions | 3.09 × 4.8 × 0.85 in (78.5 × 120.8 × 21.5 mm) (without the antenna base) |
| Others | |
| Package Contents | Archer TBE553E Magnetized Antenna Base with 0.8m RF Cable Low-Profile Bracket Bluetooth Header Cable Quick Installation Guide Resource CD |
| Certification | FCC/CE/IC/NCC/JRF/VCCI/BSMI |
| System Requirements | <ul style="list-style-type: none"> Supported operating system: Windows 10, 11 (64-bit) Supported MLO operating system: Windows 11 (Version 24H2 and later) |

| | |
|--|--|
| | <p>Note:</p> <ol style="list-style-type: none"> 1. Currently 6 GHz Band only supported on: Windows 11. 2. For the adapter to work with the Wi-Fi 7 standard, the router or access point must also support Wi-Fi 7, and the network must use WPA3 encryption. |
|--|--|

| | |
|-------------------------|-------------------------------|
| CPU Requirements | Only For Use with Intel® CPUs |
|-------------------------|-------------------------------|

Environment

| | |
|------------------------------|------------------------|
| Operating Temperature | 0°C~40°C (32°F~104°F) |
| Operating Humidity | 10%~90% non-condensing |
| Storage Humidity | 5%~90% non-condensing |

Disclaimers

†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(802.11ax), Wi-Fi 6E(802.11ax), and other features including MLO, 320 MHz Bandwidth, 4K-QAM, Multi-RUs, OFDMA, MU-MIMO, and BSS Color requires the AP and PC OS also to support the corresponding features.

§Certain features of Archer TBE553E, such as Bluetooth 5.4, may be restricted on some computing systems and platforms. Please try to update the device's driver for feature compatibility.

△The 320MHz bandwidth on the 6 GHz band may be unavailable in some regions/countries due to regulatory restrictions.

*Actual network speed may be limited by the rate of the product's PCI Express Interface, Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, operating system factors, and other environmental conditions.

**Use of WPA3 requires APs to also support the corresponding feature.