




# AX3000 Wi-Fi 6 Bluetooth 5.2 PCIe Adapter

Arm Your PC with Next-Gen  
Wi-Fi Technology




Archer TX55E

 Unrivaled Dual-Band Speed  
2402 Mbps+574 Mbps†

 75% Ultra-Low Latency Brings  
Smoother Experience\*

 Intel® Wi-Fi 6 Chipset for  
Reliable Connections

 BT The Latest Bluetooth 5.2  
Link to Your PC via Bluetooth

# Highlights

## Arm Your PC with Next-Gen Wi-Fi Technology

3× Faster Speed<sup>^</sup>

Powerful and consistent signals to perfectly pair with Wi-Fi 6 routers supported 160 MHz bandwidth.<sup>‡</sup>

**Wi-Fi 6**  **2402 Mbps**

**Wi-Fi 5**  **867 Mbps**



### 75% Lower Latency

Revolutionary OFDMA reduces lag by up to 75%. More responsive gaming and seamless video conferencing.\*



### Improved Security—WPA3™

The latest security enhancements provides enhanced protection in personal password safety.\*\*



### Superior Wi-Fi Reception

Equipped with 1024-QAM and MU-MIMO technology, TX55E delivers faster and clearer Wi-Fi to take your PC's Wi-Fi reception to the next level.<sup>‡</sup>



### Low-Profile Bracket

In addition to the standard bracket, a low-profile bracket is also provided for mini tower computer cases.

## Bluetooth 5.2 Technology

Archer TX55E equips your PC with more advanced Bluetooth 5.2 Technology that runs faster connection speeds and farther range compared with older versions, ensuring a strong and stable wireless connection between your PC and Bluetooth devices.\*\*\*



# Specifications

## WLAN Features

- **Wireless Standards:**  
IEEE 802.11ax/ac/n/a 5 GHz,  
IEEE 802.11ax/n/g/b 2.4 GHz
- **Signal Rate:**  
5 GHz  
11ax: Up to 2402 Mbps(dynamic)  
11ac: Up to 1733 Mbps(dynamic)  
11n: Up to 300 Mbps(dynamic)  
11a: Up to 54 Mbps(dynamic)  
2.4 GHz  
11ax: Up to 574 Mbps(dynamic)  
11n: Up to 300 Mbps(dynamic)  
11g: Up to 54 Mbps(dynamic)  
11b: Up to 11 Mbps(dynamic)
- **Reception Sensitivity:**  
5 GHz :  
11ax HT160 MCS11 -56dBm  
11ax HT160 MCS0 -87dBm  
11ax HT80 MCS11 -59dBm  
11ax HT80 MCS0 -90dBm  
11ax HT40 MCS11 -62dBm  
11ax HT40 MCS0 -93dBm  
11ax HT20 MCS11 -65dBm  
11ax HT20 MCS0 -95dBm  
11ac HT160 MCS9 -62dBm  
11ac HT160 MCS0 -87dBm  
11ac HT80 MCS9 -65dBm  
11ac HT80 MCS0 -90dBm  
11ac HT40 MCS9 -69dBm  
11ac HT40 MCS0 -94dBm  
11ac HT20 MCS8 -74dBm  
11ac HT20 MCS0 -95dBm  
11n HT40 MCS7 -74dBm  
11n HT40 MCS0 -94dBm  
11n HT20 MCS7 -77dBm  
11n HT20 MCS0 -95dBm  
11a 54Mbps -78dBm  
11a 6Mbps -95dBm  
2.4 GHz :  
11ax HT40 MCS11 -61dBm  
11ax HT40 MCS0 -92dBm  
11ax HT20 MCS11 -64dBm  
11ax HT20 MCS0 -94dBm  
11n HT40 MCS7 -72dBm  
11n HT40 MCS0 -92dBm  
11n HT20 MCS7 -76dBm  
11n HT20 MCS0 -94dBm  
11g54Mbps -77dBm  
11b11Mbps -89dBm
- **Transmit Power:**  
5 GHz: 28dBm(FCC) / 23dBm(CE) (EIRP),  
2.4 GHz : 24dBm(FCC) / 20dBm(CE) (EIRP)
- **Wireless Modes:** Infrastructure mode
- **Interface:** PCI Express x1/x4/x8/x16
- **Wireless Security:** Support 64/128 bit WEP, WPA/WAP2/WPA3, WPA-PSK/WPA2-PSK, 802.1x
- **Modulation Technology:** DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM, 256-QAM, 1024QAM

# Specifications

## Bluetooth Features

- Standards and Protocols: Bluetooth 5.2, Bluetooth 5.0, Bluetooth 4.2, Bluetooth 4.0
- Interface: F\_USB 2.0

## Hardware

- Chipset: Intel Wi-Fi 6 Chipset
- Antennas: Two High Gain Dual-Band Antennas
- Dimensions: 2.2 × 1.4 × 0.45 in (55 × 36 × 11.5 mm)

## Others

- Package Contents
  - AX3000 Wi-Fi 6 Bluetooth 5.2 PCIe Adapter Archer TX55E
  - Two High Gain Dual-Band Antennas
  - Low-Profile Bracket
  - Bluetooth Header Cable
  - Quick Installation Guide
  - Resource CD
- Certification
  - FCC, CE, RoHS
- System Requirements
  - Windows 10/11(64-bit) <sup>§</sup>
- Environment
  - Operating Temperature: 0°C~40°C (32°F ~104°F)
  - Operating Humidity: 10%~90% non-condensing
  - Storage Humidity: 5%~90% non-condensing



For more information, please visit

[https://www.tp-link.com/products/details/?model=Archer+TX55E\\_V1](https://www.tp-link.com/products/details/?model=Archer+TX55E_V1)

or scan the QR code left

©2022 TP-Link

†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and number of connected devices 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 6 (802.11ax), and features including OFDMA, MU-MIMO, HT160 and 1024-QAM require APs to also support the corresponding features.

§Functionality of Archer TX55E may be restricted on some computing systems and platforms. Please try to update the device's driver for feature compatibility.

△802.11ax 2x2 160 MHz enables 2402 Mbps maximum theoretical data rates, 3× faster than standard 802.11ac 2x2 80 MHz (867 Mbps) and nearly 6x faster than baseline 1x1ac (433 Mbps) Wi-Fi as documented in IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers.

\*\*Up to 75% lower latency\* is based on Intel simulation data of 802.11ax with and without OFDMA using 9 clients. Average latency without OFDM is 36ms, with OFDMA average latency is reduced to 7.6ms. Latency improvement requires that the AP and all clients support OFDMA.

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

\*\*\*Several new features are introduced in the Bluetooth Core Specification 5.0 and 5.2 Releases, including 2× faster speed and 4× broader coverage compared with Bluetooth 4.2.