tp-link

Wi-Fi 6

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*
- CPU 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△

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



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.‡

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) §
- 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+TX55E_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, 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.