AX3000
Wi-Fi 6 Bluetooth 5.0
PCIe Adapter

Arm Your PC with Next-Gen
Wi-Fi Technology



Archer TX3000E

- Unrivaled Dual-Band Speed
  2402 Mbps+574 Mbps†
- 75% Ultra-Low Latency Brings
  Smoother Experience*
- CPU Intel® Wi-Fi 6 Chipset for
  Reliable Connections
- Wider Signal Coverage with
  Magnetized Antenna Base

Highlights

Next-Gen Wi-Fi Technology

3× Faster Speed[Δ]

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



75% Lower Latency

More responsive gaming and seamless video conferencing.*

Improved Security—WPA3™

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

Bluetooth 5.0 Technology

Archer TX3000E is compatible with the latest Bluetooth 5.0 Technology, achieving 2× faster speed and 4× broader coverage than Bluetooth 4.2 to connect as more devices as you want and enjoy the smoother experience than ever.***



Highlights

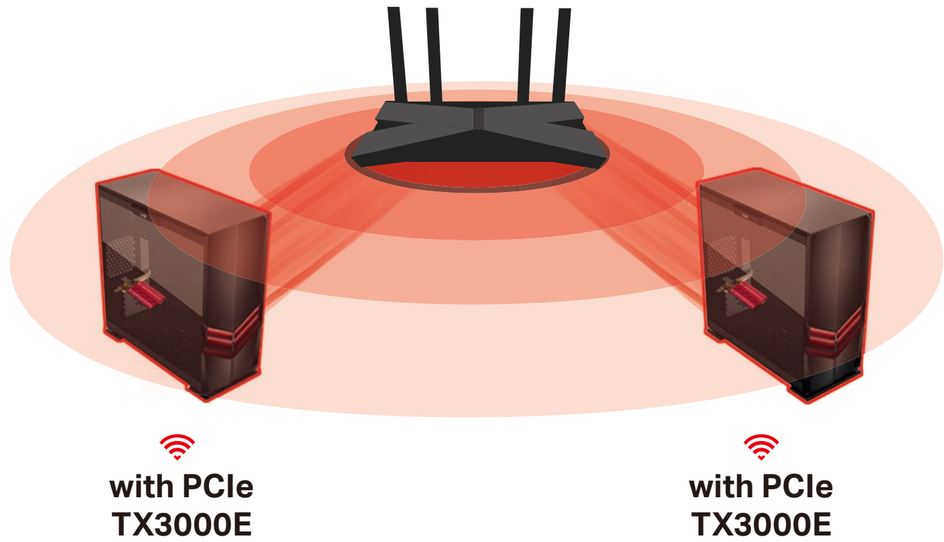
Broader Coverage Than Ever

Two multi-directional and high-performance antennas with a magnetized base make it incredibly easy to find the best location for optimum signal reception.



Superior Wi-Fi Reception

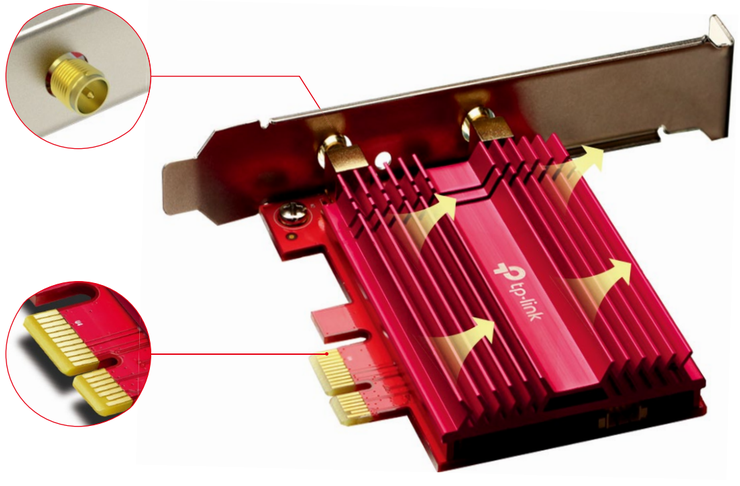
Equipped with 1024-QAM and MU-MIMO technology, Archer TX3000E delivers faster and clearer Wi-Fi to take your PC's Wi-Fi reception to the next level and fully achieve the potential of your Wi-Fi 6 router.‡



Highlights

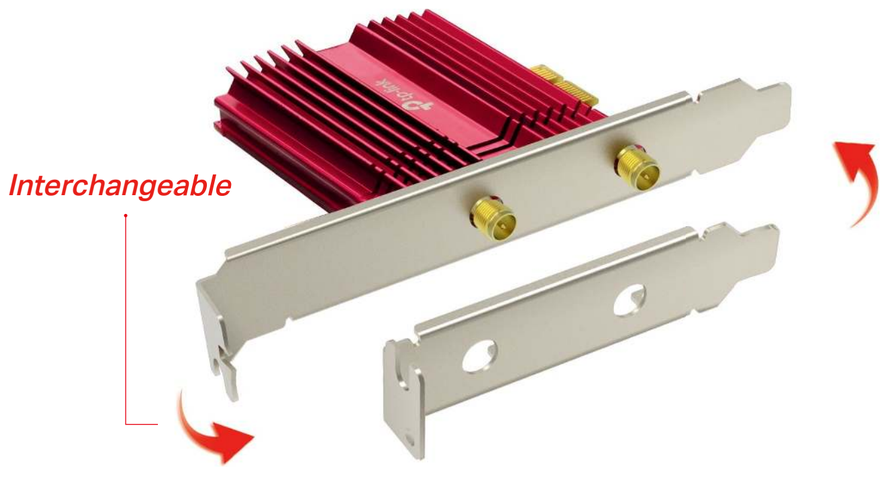
Fine Crafting for Reliability

Built with a specialized heatsink crafted to improve stability and reliability even in hot environments. Careful attention to every detail, such as gold plating on every contactor to resist oxidation, delivers a superior network experience.



Low-Profile Bracket

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



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: -56.25dBm

  11ax HT80: -59dBm

  11ax HT40: -62.25dBm

  11ax HT20: -65dBm

  11ac HT160: -62dBm

  11ac HT80: -65.5dBm

  11ac HT40: -69.75dBm

  11ac HT20: -73.75dBm

  11n HT40: -74.5dBm

  11n HT20: -77.5dBm

  11a 54Mbps: -77.75dBm

  11a 6Mbps: -94.5dBm

  2.4GHz :

  11ax HT40: -60.75dBm

  11ax HT20: -63.75dBm

  11n HT40: -73dBm

  11n HT20: -76.25dBm

  11g 54Mbps: -76.5dBm

  11b 11Mbps: -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
- 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 5.0, Bluetooth 4.2, Bluetooth 4.0
- Interface: USB 2.0
- Bluetooth Profiles: Archer TX3000E supports the native BT profiles implemented in Windows 10.

* For the latest information on Windows 10 BT profiles, please refer to https://support.microsoft.com/en-us/help/10568/windows-10-supported-bluetooth-profiles

Hardware

- Chipset: Intel Wi-Fi 6 Chipset
- Antennas: Two High-Gain Dual Band Antennas, Magnetized Antenna Base
- Dimensions: 3.7 × 4.8 × 0.8 in (95.2 ×120.8 ×21.5 mm)

Others

- Package Contents

  Archer TX3000E

  Magnetized Antenna Base with 1m RF Cable

  Two 5 dBi High Gain Antennas

  Low-Profile Bracket

  Bluetooth Header Cable

  Quick Installation Guide

  Resource CD
- Certification

  FCC, CE, RoHS
- System Requirements

  Windows 10 (64-bit) only****
- Environment

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

  Storage Temperature: -40°C~70°C (-40°F ~158°F)

  Operating Humidity: 10%~90% non-condensing

  Storage Humidity: 5%~90% non-condensing

Windows 10 Compatible

For more information, please visit

https://www.tp-link.com/en/home-networking/pci-adapter/archer-tx3000e/v1/

or scan the QR code left

Attention: This device may only be used indoors in all EU member states and EFTA countries.
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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, and 1024-QAM require APs to also support the corresponding features.
§HT160 requires AP device that supports 160 MHz bandwidth on Wi-Fi.
ᵓ802.11ax 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 Release, including 2× faster speed and 4× broader coverage compared with Bluetooth 4.2.
****Functionality of Archer TX3000E may be restricted on some computing systems and platforms. Please try to update the device's driver for feature compatibility.