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TP-Link Archer TX50E

TP-Link Archer TX50E AX3000 Wi-Fi 6 Bluetooth 5.2 PCIe Adapter User Manual

Model: Archer TX50E | Brand: TP-Link

1. INTRODUCTION

The TP-Link Archer TX50E is an AX3000 Wi-Fi 6 and Bluetooth 5.2 PCIe Adapter designed to upgrade your desktop computer's wireless capabilities. It provides ultra-fast Wi-Fi speeds, improved network efficiency, and broader Bluetooth connectivity, making it ideal for demanding applications like online gaming, 4K/8K video streaming, and VR experiences. This adapter features a specialized heatsink for enhanced stability and includes high-gain antennas for extended signal coverage.

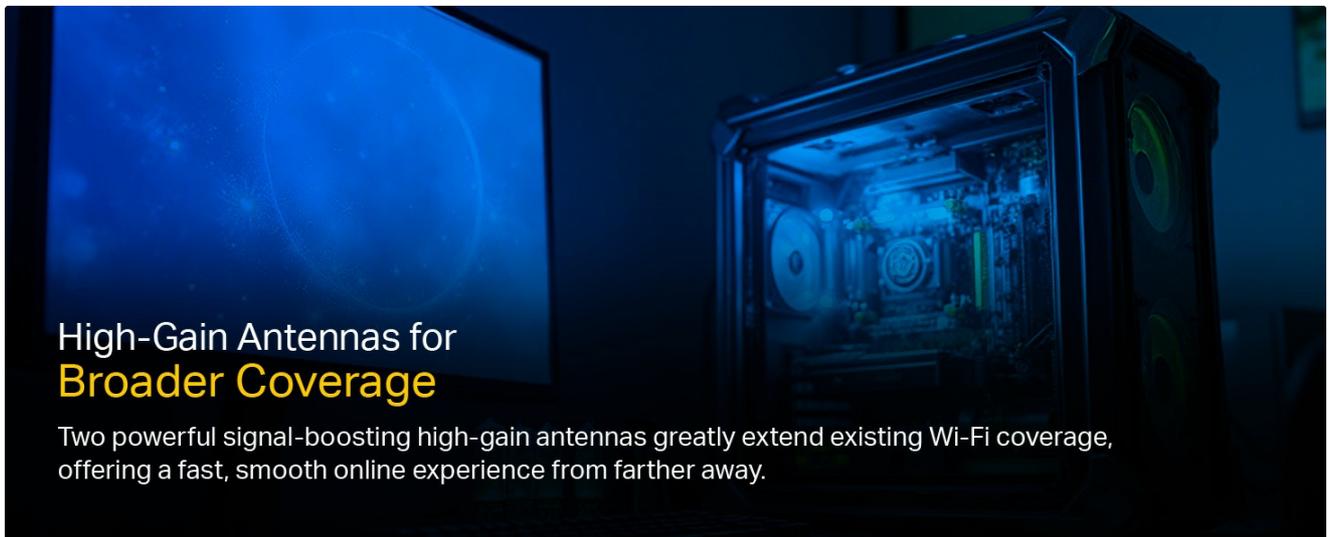


Image: The Archer TX50E PCIe adapter installed in a desktop computer, showcasing its Wi-Fi 6 and Bluetooth 5.3 capabilities.



Image: Key features of the Archer TX50E, including Wi-Fi 6, Bluetooth 5.3, WPA3 security, Windows 11/10 compatibility, and included low-profile brackets.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link Archer TX50E AX3000 Wi-Fi 6 Bluetooth 5.2 PCIe Adapter
- Two High-Gain Antennas
- Low-Profile Bracket
- Quick Installation Guide (not listed in JSON, but typical)
- Resource CD (for drivers)

Bluetooth 5.2

Connect your Bluetooth devices with faster speeds and broader coverage compared with older versions.



Image: The retail box for the Archer TX50E adapter, showing the product and its main features.

3. SETUP INSTRUCTIONS

Follow these steps to install your Archer TX50E adapter into your desktop computer.

3.1 Hardware Installation

1. **Power Off Your Computer:** Turn off your computer and unplug the power cable from the wall outlet.
2. **Open the Computer Case:** Remove the side panel of your computer case to access the motherboard.
3. **Install the PCIe Adapter:** Locate an available PCIe X1 slot on your motherboard. Carefully insert the Archer TX50E adapter into the slot until it is firmly seated. Secure the adapter with a screw if your case requires it.
4. **Connect Bluetooth USB Cable:** Connect the provided Bluetooth USB cable to the adapter and then to an available F_USB connector on your motherboard. This connection is essential for Bluetooth functionality.
5. **Attach Antennas:** Connect the two high-gain antennas to the antenna connectors on the adapter. Adjust their orientation for optimal signal reception.
6. **Close the Computer Case:** Replace the side panel of your computer case and plug the power cable back into the

wall outlet.

7. **Power On:** Turn on your computer.

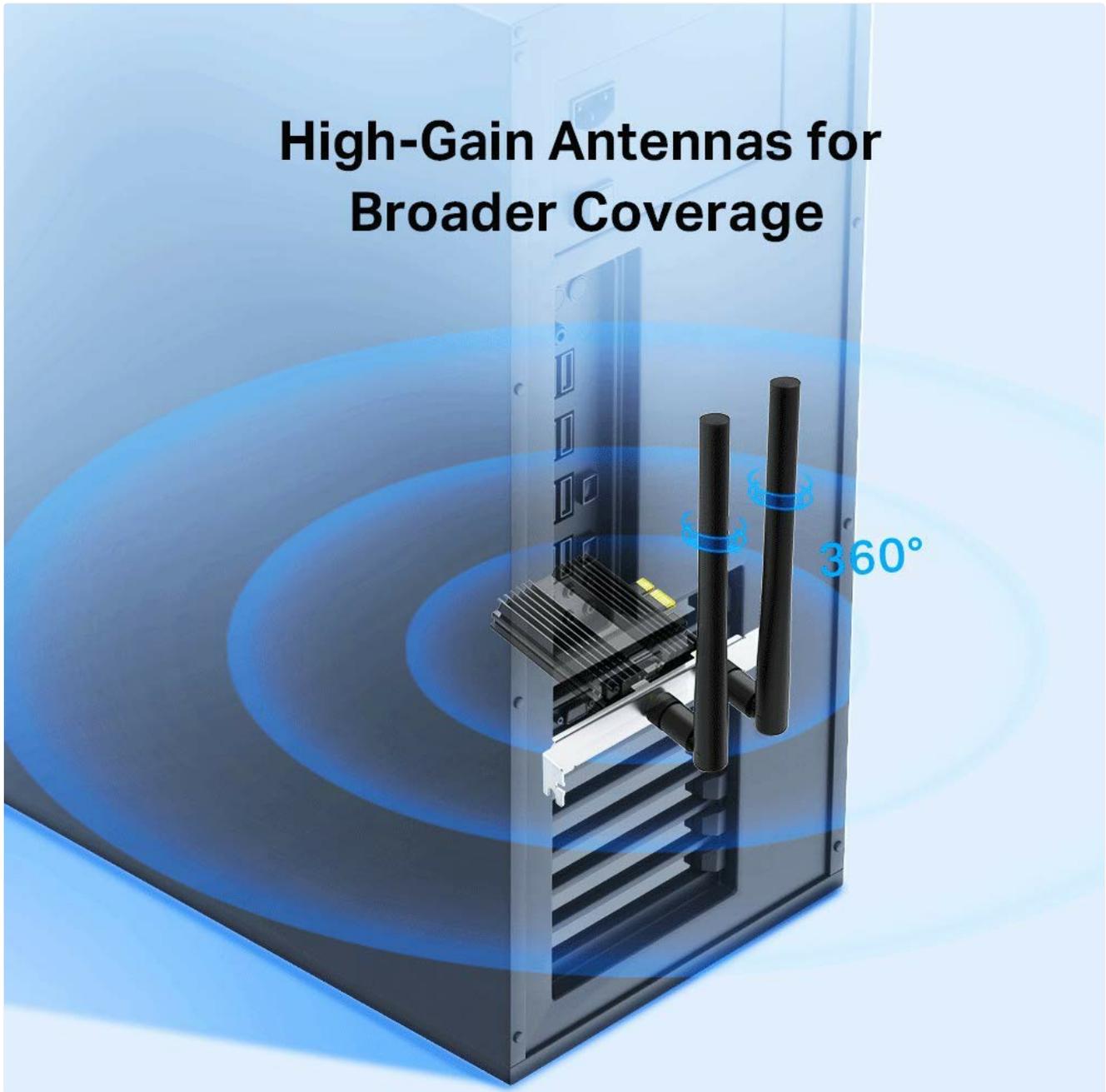


Image: The Archer TX50E adapter with its two high-gain antennas, installed in a desktop computer's PCIe slot.

High Performance for High Demands

The very latest Wi-Fi standard, Wi-Fi 6, provides extreme speed, ultra-low latency, and uninterrupted connectivity so you enjoy faster downloads, smoother streaming, and more immersive gaming.[†]

1Gbps

Unlimited Wi-Fi 6 Gaming: 2.4Gbps

2.4Gbps

Traditional Tethered Gaming: 1Gbps

with PCIe TX50E

with PCIe TX50E

Image: Illustration demonstrating how the high-gain antennas extend Wi-Fi coverage for the desktop PC.

3.2 Driver Installation

After hardware installation, you need to install the drivers for both Wi-Fi and Bluetooth functionality. The Archer TX50E supports Windows 11/10 (64-bit) only.

1. **Insert Resource CD:** Insert the provided resource CD into your computer's CD/DVD drive. If you do not have a CD/DVD drive, download the latest drivers from the official TP-Link website (www.tp-link.com).
2. **Run Installer:** Open the CD/DVD drive or the downloaded driver package and run the setup file (e.g., Autorun.exe).
3. **Install Wi-Fi Driver:** Follow the on-screen instructions to install the Wi-Fi driver. This typically involves accepting the license agreement and choosing an installation type.
4. **Install Bluetooth Driver:** After the Wi-Fi driver installation is complete, proceed to install the Bluetooth driver by following the on-screen prompts.
5. **Restart Computer:** Restart your computer to ensure all driver changes take effect.

Note: Do not run the Bluetooth and Wi-Fi driver installers at the same time. Install them sequentially.

4. OPERATING INSTRUCTIONS

4.1 Connecting to Wi-Fi

Once the Wi-Fi driver is installed, your computer can connect to Wi-Fi 6 networks.

1. Click the Wi-Fi icon in the system tray (usually bottom-right corner of your screen).
2. Select your desired Wi-Fi network from the list.
3. Enter the network security key (password) if prompted.
4. Click 'Connect'.

The Archer TX50E supports Wi-Fi 6 (802.11ax) for speeds up to 2402 Mbps on the 5 GHz band and 574 Mbps on the 2.4 GHz band, offering a smoother experience with 75% lower latency. Technologies like MU-MIMO and OFDMA boost network throughput and efficiency, especially in multi-device environments.



Image: Comparison of Wi-Fi 6 (2402 Mbps) and Wi-Fi 5 (867 Mbps) speeds, illustrating the performance benefits for VR.



Easy Setup

The utility on the provided CD makes software installation remarkably simple



Operating System

Supports Windows 11/10 (64-bit) only



Standard and Low-Profile Brackets

Both a standard and low-profile bracket, for mini tower computer cases, are provided

Image: Diagram explaining how MU-MIMO and OFDMA reduce latency and improve network efficiency for multiple devices.

4.2 Using Bluetooth

With the Bluetooth driver installed and the USB cable connected, you can pair Bluetooth devices.

1. Ensure your Bluetooth device is in pairing mode.
2. On your computer, go to **Settings > Devices > Bluetooth & other devices**.
3. Turn on Bluetooth and click 'Add Bluetooth or other device'.
4. Select 'Bluetooth' and choose your device from the list to pair.

The adapter features Bluetooth 5.2, offering faster speeds and broader coverage compared to previous Bluetooth versions, ensuring reliable connections for your peripherals.

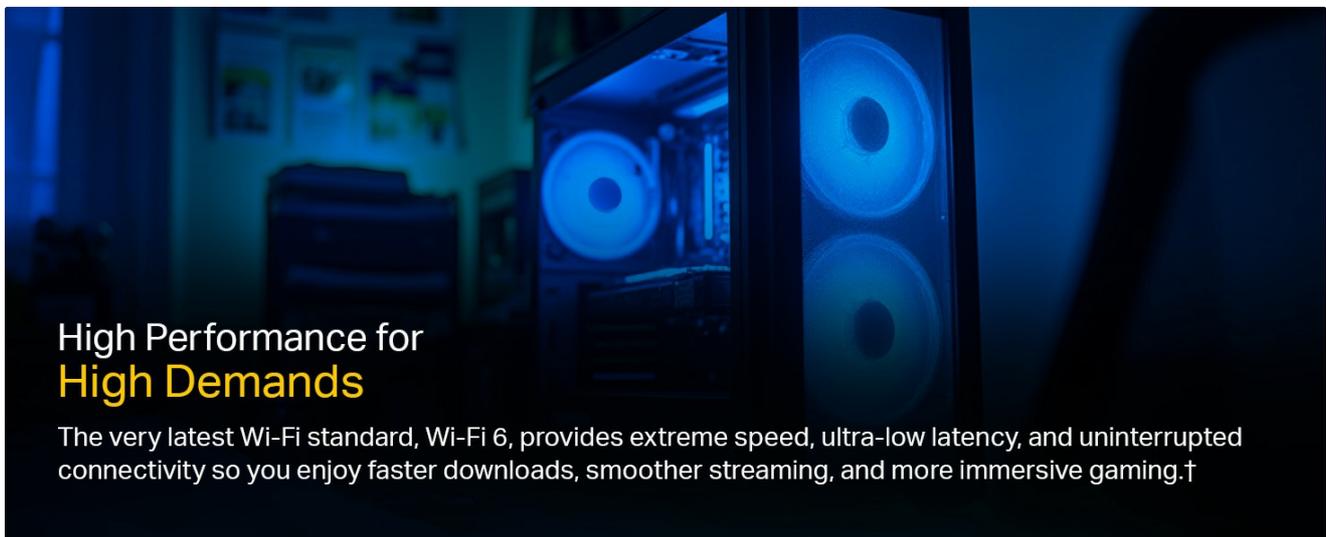


Image: The Bluetooth 5.2 adapter connecting to various devices such as headphones, game controllers, mouse, and keyboard.

5. TROUBLESHOOTING

If you encounter issues with your Archer TX50E adapter, refer to the following common solutions:

- **No Wi-Fi or Bluetooth:** Ensure the adapter is correctly seated in the PCIe slot and the Bluetooth USB cable is securely connected to both the adapter and the motherboard's F_USB header. Verify that drivers are installed correctly in Device Manager.
- **Slow Wi-Fi Speed:** Check antenna connections and orientation. Ensure your router supports Wi-Fi 6 and is

configured for optimal performance. Update drivers to the latest version from the TP-Link website.

- **Bluetooth Device Not Pairing:** Make sure the Bluetooth device is in pairing mode and within range. Confirm the Bluetooth driver is installed and enabled in Device Manager.
- **Intermittent Connection:** This could be due to interference. Try repositioning your computer or antennas. Ensure your operating system is up to date.
- **Driver Installation Issues:** If the CD does not work, download drivers directly from the TP-Link support website. Ensure you are installing the correct 64-bit drivers for Windows 10 or Windows 11.

6. SPECIFICATIONS

Detailed technical specifications for the TP-Link Archer TX50E:

Feature	Description
Model Number	Archer TX50E
Wireless Standard	IEEE 802.11ax/ac/n/a (5 GHz), IEEE 802.11ax/n/g/b (2.4 GHz)
Bluetooth Version	Bluetooth 5.2/5.0/4.2/4.0
Data Transfer Rate	Up to 3000 Mbps (2402 Mbps on 5 GHz, 574 Mbps on 2.4 GHz)
Interface	PCIe X1
Antennas	Two High-Gain Dual Band Antennas
Operating System Support	Windows 11/10 (64-bit) only
Security	WPA3, WPA2, WPA, WEP
Dimensions (L x W x H)	15 x 20 x 3.9 cm (Product)
Item Weight	200 g
Special Features	Heat Sink, MU-MIMO, OFDMA, Ultra-Low Latency



Image: Close-up view of the Archer TX50E's specialized heatsink and gold-plated connectors, designed for stability and reliability.

7. WARRANTY AND SUPPORT

For warranty information, technical support, and product registration, please visit the official TP-Link website or contact their customer service.

- **Official Website:** www.tp-link.com
- **TP-Link India Support:** Toll Free 1800-209-4168, support.in@tp-link.com

Please retain your purchase receipt for warranty claims.