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TP-Link Archer TX50E

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Model: Archer TX50E

Brand: TP-Link

1. PRODUCT OVERVIEW

The TP-Link Archer TX50E is a high-performance AX3000 Wi-Fi 6 Bluetooth 5.3 PCIe Adapter designed for desktop PCs. It leverages the latest Wi-Fi 6 standard to deliver extreme speeds, ultra-low latency, and uninterrupted connectivity, making it suitable for demanding applications like immersive gaming and VR. The adapter features a customized heat sink and gold-plated contactors for enhanced stability and longevity.

Key Features:

- **Wi-Fi 6 Performance:** Delivers speeds up to 2.4 Gbps (2402 Mbps on 5 GHz + 574 Mbps on 2.4 GHz) with 1024-QAM and 160 MHz bandwidth.
- **Ultra-Low Latency:** Revolutionary OFDMA and MU-MIMO technologies reduce lag for responsive gaming and VR experiences.
- **Bluetooth 5.3:** Achieves 2× faster speeds and 4× broader coverage than Bluetooth 4.2, enabling seamless connection with various peripherals.
- **Broad Coverage:** Equipped with two high-gain antennas to extend Wi-Fi range.
- **Premium Build:** Features a customized heat sink for efficient thermal dissipation and gold-plated contactors for improved stability and oxidation resistance.
- **Advanced Security:** Supports WPA3, the latest network security standard, for enhanced network protection.

2. PACKAGE CONTENTS

Verify that all items are present in your package:



Image: TP-Link Archer TX50E retail box showing the adapter and included accessories.

- TP-Link Archer TX50E Wi-Fi 6 Bluetooth 5.3 PCIe Adapter
- Two High-Gain Antennas
- Bluetooth USB Cable
- Resource CD
- Quick Installation Guide
- Low-Profile Bracket

3. HARDWARE INSTALLATION

Before You Begin:

- Ensure your computer is powered off and unplugged from the power source.
- Ground yourself to discharge any static electricity before handling components.
- Refer to your computer's manual for specific instructions on opening the case.

Step-by-Step Installation:



Image: Front view of the TP-Link Archer TX50E adapter with antennas.

1. **Power Off and Unplug:** Turn off your computer and unplug the power cable from the wall outlet.
2. **Open PC Case:** Remove the side panel of your computer case to access the motherboard.
3. **Connect Bluetooth USB Cable:** Connect the provided Bluetooth USB cable to the adapter's Bluetooth header.
4. **Locate Slots:** Identify an available PCI Express X1 slot on your motherboard and an F_USB connector (usually labeled USB910 or similar).
5. **Insert Adapter:** Carefully insert the Archer TX50E adapter into the chosen PCIe X1 slot. Ensure it is seated firmly.
6. **Connect USB Cable:** Connect the other end of the Bluetooth USB cable to the F_USB connector on your motherboard. This connection is essential for Bluetooth functionality.
7. **Secure Adapter and Antennas:** Secure the adapter with a screw to the computer case. Then, connect the two high-gain antennas to the adapter's connectors. Adjust their position for optimal signal reception.
8. **Close PC Case:** Replace the side panel of your computer case.
9. **Power On:** Plug the power cable back into the wall outlet and turn on your computer.

Visual Installation Guide:

Your browser does not support the video tag.

Video: A step-by-step guide demonstrating the physical installation of the TP-Link Archer TX50E PCIe adapter into a desktop computer.

4. DRIVER INSTALLATION

After hardware installation, you need to install the Wi-Fi and Bluetooth drivers for the adapter to function correctly. **Note:** Do NOT run the Bluetooth and Wi-Fi driver installers at the same time.

Step-by-Step Driver Installation:

- 1. Insert CD or Download Drivers:** Insert the provided resource CD into your computer's CD/DVD drive. If your computer does not have a CD/DVD drive, download the latest drivers from the official TP-Link website (search for Archer TX50E).
- 2. Run Autorun:** Once the CD is inserted, an Autorun window should appear. Click to run `Autorun.exe`. If it doesn't appear, navigate to 'This PC' or 'My Computer', open your CD/DVD drive, and manually run `Autorun.exe`.
- 3. Install Wi-Fi Drivers:** In the TP-Link driver installation utility, select the option to install the Wi-Fi drivers. Follow the on-screen instructions to complete the installation. You may need to restart your computer after this step.
- 4. Install Bluetooth Drivers:** After the Wi-Fi drivers are installed and your computer has restarted (if prompted), run the `Autorun.exe` again or manually launch the Bluetooth driver installer. Follow the on-screen instructions to complete the Bluetooth driver installation. Another restart may be required.

For a visual guide on driver installation, please refer to the setup video provided in the Hardware Installation section.

5. OPERATING INSTRUCTIONS

Connecting to Wi-Fi:

1. After successful driver installation, click the Wi-Fi icon in your system tray (usually in the bottom-right corner of your screen).
2. A list of available wireless networks will appear. Select your desired network.
3. Click 'Connect' and enter the network security key (password) if prompted.
4. Your computer should now be connected to the Wi-Fi network.

Pairing Bluetooth Devices:

1. Ensure your Bluetooth device is in pairing mode (refer to your device's manual).
2. On your computer, go to 'Settings' > 'Devices' > 'Bluetooth & other devices'.
3. Turn on Bluetooth if it's not already enabled.
4. Click 'Add Bluetooth or other device' and select 'Bluetooth'.
5. Select your device from the list and follow any on-screen prompts to complete the pairing process.

6. TROUBLESHOOTING

If you encounter issues with your Archer TX50E adapter, try the following common troubleshooting steps:

- **No Wi-Fi Connection:**

- Ensure the adapter is correctly seated in the PCIe slot.
- Verify that the antennas are securely connected.
- Check Device Manager to ensure Wi-Fi drivers are installed and the device is recognized without errors.
- Try updating or reinstalling the Wi-Fi drivers.
- Restart your computer and your wireless router.

- **Bluetooth Not Working:**

- Confirm the Bluetooth USB cable is properly connected to both the adapter and the motherboard's F_USB header.
- Check Device Manager to ensure Bluetooth drivers are installed and the device is recognized without errors.
- Verify that Bluetooth is enabled in your computer's settings.
- Try updating or reinstalling the Bluetooth drivers.

- **Slow Speeds or Intermittent Connection:**

- Ensure your router supports Wi-Fi 6 (802.11ax) for optimal performance.
- Adjust the position of the antennas for better signal reception.
- Move your computer closer to the router or reduce obstacles between them.
- Check for interference from other electronic devices.
- Update your router's firmware.

If these steps do not resolve your issue, please contact TP-Link Technical Support.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	Archer TX50E
Wireless Standard	Wi-Fi 6 (802.11ax/ac/b/g/n)
Bluetooth Version	Bluetooth 5.3
Interface	PCI Express
Data Transfer Rate	Up to 2402 Mbps (5 GHz), 574 Mbps (2.4 GHz)
Operating System Support	Windows 11, 10 (64-bit)
Security	WPA3
Dimensions (L x W x H)	9.53 x 12.09 x 2.16 cm
Item Weight	90.72 g (0.2 Pounds)
Hardware Interface	Bluetooth
Compatible Devices	Desktop, Laptop

8. WARRANTY AND TECHNICAL SUPPORT

TP-Link offers a **2-year warranty** for this product. Additionally, free **24/7 technical support** is available to assist you with any questions or issues you may encounter.

For further assistance, please visit the official TP-Link support website or contact their customer service directly.