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> [Techkey USB Bluetooth 5.4 Adapter \(Model 5.4 BT\) Instruction Manual](#)

Techkey 5.4 BT

Techkey USB Bluetooth 5.4 Adapter (Model 5.4 BT) Instruction Manual

1. INTRODUCTION

The Techkey USB Bluetooth 5.4 Adapter is designed to provide your desktop PC or laptop with advanced Bluetooth connectivity. Featuring Bluetooth 5.4+EDR technology and a 5dBi antenna, this adapter offers extended range, faster data transmission, and the ability to connect multiple devices simultaneously. It is compatible with Windows 11, 10, and 8.1 with plug-and-play functionality, and supports Windows 8/7 with driver installation.

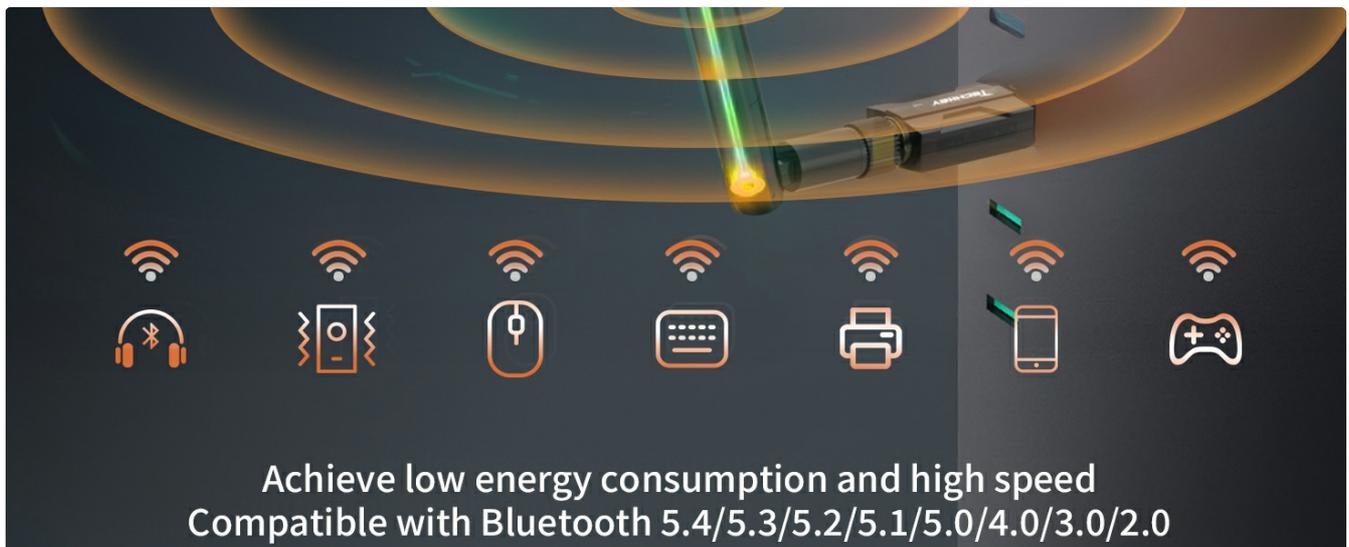


Image 1.1: Techkey USB Bluetooth 5.4 Adapter supporting Bluetooth Low Energy (BLE) for various applications.

2. PRODUCT FEATURES

- **Extended Range:** Utilizes Class 1 radio technology and a 5dBi antenna, providing a transmission range of up to 500ft (150m) in open areas. Actual range may vary due to physical obstructions and wireless interference.
- **Fast Transmission Rate:** Achieves speeds of up to 3Mbps with EDR technology and Bluetooth Low Energy (BLE) configuration, optimizing data transfer and reducing interference in the 2.4GHz band.
- **Plug & Play:** For Windows 11, 10, and 8.1, no driver installation is required. Simply plug the adapter into a USB port to begin use.
- **Advanced Bluetooth Technology:** Equipped with the latest Bluetooth 5.4+EDR technology, backward compatible with Bluetooth 5.4/5.3/5.2/4.2/4.0/2.1+EDR. Features Dual Mode (BR/EDR+ Bluetooth Low Energy)

for reduced energy consumption and enhanced performance.

- **Multi-Device Connectivity:** Supports simultaneous connections with up to 7 Bluetooth wireless devices, including speakers, keyboards, headsets, mice, and printers.



Image 2.1: Internal chip highlighting key performance benefits of the adapter.

3. PACKAGE CONTENTS

- 1 x Techkey USB Bluetooth 5.4 Adapter with 5dBi Antenna

Note: A mini-CD or USB drive containing drivers for older Windows versions (Windows 8/7) may be included. Please check your package contents.

4. SETUP INSTRUCTIONS

4.1 System Requirements

- Operating System: Windows 11 / 10 / 8.1 (Plug & Play)
- Operating System: Windows 8 / 7 (Driver installation required)
- USB Port: Available USB-A port

Note: This adapter is exclusively compatible with Windows operating systems and does not support Mac OS, Linux, car stereo systems, XBOX, PS4, or TVs.

4.2 Installation Steps

1. **Insert the Adapter:** Carefully plug the Techkey USB Bluetooth 5.4 Adapter into an available USB-A port on your desktop PC or laptop.
2. **Automatic Recognition (Windows 11/10/8.1):** For these operating systems, the adapter should be automatically recognized and installed by the system. No manual driver installation is typically needed.
3. **Driver Installation (Windows 8/7):** If you are using Windows 8 or 7, you may need to install drivers. Please refer to the included mini-CD/USB drive or visit the Techkey official website for the appropriate drivers. Follow the on-screen instructions to complete the installation.



Image 4.1: Plug & Play setup for Windows 11/10/8.1.

5. OPERATING INSTRUCTIONS

5.1 Pairing Bluetooth Devices

1. **Enable Bluetooth:** After successful installation, ensure Bluetooth is enabled on your computer. You can usually find this in Windows Settings > Devices > Bluetooth & other devices.
2. **Put Device in Pairing Mode:** Place your Bluetooth device (e.g., headphones, mouse, keyboard) into pairing mode. Refer to your device's manual for specific instructions.
3. **Add Device:** On your computer, click "Add Bluetooth or other device" and select "Bluetooth."
4. **Select and Connect:** Your computer will scan for nearby Bluetooth devices. Select your device from the list and follow any on-screen prompts to complete the pairing process.

5.2 Connecting Multiple Devices

The Techkey USB Bluetooth 5.4 Adapter supports connecting up to 7 Bluetooth devices simultaneously. Once paired, your devices should automatically reconnect when they are within range and Bluetooth is enabled on your computer.



Image 5.1: The adapter supports a wide range of applications and multiple device connections.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Techkey USB Bluetooth 5.4 Adapter, follow these general maintenance guidelines:

- **Keep Dry:** Avoid exposing the adapter to moisture or liquids.
- **Temperature:** Store and operate the adapter within normal room temperatures. Avoid extreme heat or cold.
- **Cleaning:** If necessary, gently wipe the adapter with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Physical Protection:** Avoid dropping or subjecting the adapter to strong impacts.

7. TROUBLESHOOTING

If you encounter issues with your Techkey USB Bluetooth 5.4 Adapter, consider the following troubleshooting steps:

- **Adapter Not Recognized (Windows 11/10/8.1):**
 - Try plugging the adapter into a different USB-A port.
 - Restart your computer.
 - Check Device Manager to see if the Bluetooth device is listed and enabled.
- **Driver Issues (Windows 8/7):**
 - Ensure you have installed the correct drivers from the included media or the Techkey official website.
 - If drivers were installed, try reinstalling them.
- **Connectivity Problems:**
 - Ensure your Bluetooth device is in pairing mode and fully charged.
 - Verify that the device is within the adapter's operational range (up to 500ft/150m in open areas).
 - Reduce physical obstructions (walls, furniture) and sources of wireless interference (Wi-Fi routers, microwaves) between the adapter and your Bluetooth device.
 - Remove and re-pair the Bluetooth device from your computer's Bluetooth settings.
- **Slow Transmission/Lag:**
 - Ensure there are no other strong 2.4GHz wireless signals causing interference.
 - Limit the number of active Bluetooth connections if experiencing performance degradation.

8. SPECIFICATIONS

Feature	Specification
Product Dimensions	4.29 x 3.74 x 0.67 inches
Item Weight	1.44 ounces (0.04 Kilograms)
Brand	Techkey
Hardware Interface	USB
Color	Black
Compatible Devices	Headphone, Keyboard, Laptop, Mouse, Printer, Speaker
Data Transfer Rate	3 Megabits Per Second

Compatible Operating System Family	Windows
Minimum Required Operating System Version	Windows 10 (Plug & Play), Windows 8/7 (Driver Required)



Image 8.1: Performance comparison of the Techkey Bluetooth 5.4 adapter.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Techkey customer service. Refer to the product packaging or the official Techkey website for contact details.