

RUIZHI Bluetooth 6.0 Adapter

RUIZHI Bluetooth 6.0 USB Adapter User Manual

Model: Bluetooth 6.0 Adapter

1. INTRODUCTION

The RUIZHI Bluetooth 6.0 USB Adapter provides advanced Bluetooth connectivity for your PC, laptop, or desktop computer. This adapter offers enhanced speed, stability, and range, allowing you to connect multiple Bluetooth-enabled devices simultaneously. It is designed for ease of use with plug-and-play functionality on most modern Windows operating systems.

Bluetooth 6.0:

for Faster Speeds and More Stable



Faster
Speed



Greater
Stability



Reduced
Latency



Improved Power
Efficiency



Fully compatible with
Bluetooth 5.4/5.3/5.1/5.0

Image 1.1: The RUIZHI Bluetooth 6.0 USB Adapter, emphasizing its capabilities for faster speeds and greater stability. It supports Bluetooth 6.0 for optimal performance.

Key features include:

- **Bluetooth 6.0 Technology:** Delivers up to 3 Mbps data transfer speed with extremely low energy consumption. It is backward compatible with Bluetooth versions 5.4, 5.3, and 5.1.
- **Adjustable Antenna:** A 360-degree rotating antenna ensures optimal signal alignment, stable connections, and reduced interference.
- **Multipoint Connection:** Connect up to 5 devices simultaneously, such as mice, keyboards, and headphones. Note that only one audio output is supported at a time.
- **Extended Range:** Offers an outdoor range of up to 200 meters and an indoor range of approximately 10-20 meters due to its amplified signal.
- **Broad Protocol Support:** Compatible with A2DP, HSP, AVRCP, HD, SBC, AAC, DID, and IOP protocols for wide device compatibility.

Work More Efficiently, Better Bluetooth Experience A2DP/AAC/SBC



Image 1.2: Visual representation of the adapter's core features, including Bluetooth 6.0, Bluetooth Low Energy (BLE), 20-meter indoor long range, dual antenna design, and plug-and-play functionality.

2. SETUP INSTRUCTIONS

Follow these steps to install and begin using your RUIZHI Bluetooth 6.0 USB Adapter.

2.1 System Requirements

- Operating System: Windows 11, Windows 10, Windows 8.1, Windows 7.
- Available USB Port (USB 2.0 or USB 3.0 recommended).

2.2 Installation

1. **Insert the Adapter:** Plug the RUIZHI Bluetooth 6.0 USB Adapter into an available USB port on your PC, laptop, or desktop computer.
2. **Antenna Adjustment:** Adjust the antenna to an upright position or angle it for optimal signal reception. The antenna can rotate 360 degrees.
3. **Driver Installation (Windows 7 only):**

- For Windows 11, 10, and 8.1, the adapter is plug-and-play and typically requires no driver installation. The system will automatically recognize and install the necessary drivers.
 - For Windows 7, a driver installation is required. Please download the appropriate driver from the manufacturer's website or the provided link: <https://bit.ly/3GHevXY>. Follow the on-screen instructions to complete the driver installation.
4. **Verification:** Once installed, the Bluetooth icon should appear in your system tray (usually in the bottom right corner of your screen). This indicates the adapter is ready for use.

Supports Windows 11/10/8.1/7

Plug and Play For Windows 11/10/8.1



For Windows 7, Download driver on <https://bit.ly/3GHevXY>

Image 2.1: The Bluetooth adapter connected to a laptop, illustrating its plug-and-play compatibility with Windows 11, 10, and 8.1. A specific note for Windows 7 users regarding driver download is also shown.

Plug and Play

For Windows 11/10/8.1



Notes: Can be used directly when the computer is not connected to the internet.

Image 2.2: Detailed dimensions of the RUIZHI Bluetooth 6.0 USB Adapter, showing its compact size and the adjustable antenna. The adapter measures 3.3cm in width, 9.8cm in height (with antenna extended), and 2.2cm for the USB connector width.

3. OPERATING INSTRUCTIONS

Once the adapter is installed, you can connect your Bluetooth devices.

3.1 Connecting Bluetooth Devices

1. **Enable Bluetooth:** Ensure Bluetooth is enabled on your computer. You can usually find this in the Windows Settings (Settings > Devices > Bluetooth & other devices).
2. **Pair a Device:** Click "Add Bluetooth or other device" and select "Bluetooth." Put your Bluetooth device (e.g., mouse, keyboard, headset, gamepad, printer, speaker) into pairing mode.
3. **Select Device:** 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.
4. **Confirmation:** Once paired, your device will be listed as connected, and you can begin using it.

Connect Bluetooth-Enable Devices to Your PC

Up to 5 devices connected simultaneously



Notes: It is not compatible with any TV, Car Stereo, Mac Device, Game Console.

Image 3.1: Illustration of the adapter's ability to connect up to five Bluetooth-enabled devices simultaneously to your PC, including various peripherals and audio devices. It also confirms compatibility with Windows 11, 10, 8.1, and 7.

3.2 Antenna Adjustment for Optimal Signal

The adapter features a 360-degree rotating antenna. For the best signal strength and stability, especially when experiencing interference or connecting to devices at a distance, adjust the antenna's orientation. Experiment with different angles to find the optimal position for your environment.

High-Performance Antenna for Powerful Signal

Greater Coverage and Stability



Image 3.2: Visual guide demonstrating the 360-degree adjustable antenna, which allows users to optimize signal alignment for greater coverage and stability.

3.3 Usage Scenarios

The RUIZHI Bluetooth 6.0 USB Adapter enhances various computing experiences:

- **File Transfer:** Quickly and mutually transfer files between your PC and other Bluetooth devices.
- **Audio Streaming:** Enjoy high-fidelity (HiFi) music and high-definition (HD) calling with Bluetooth headsets.
- **Gaming:** Experience smooth gaming with wireless controllers and headsets on your PC.
- **Productivity:** Connect wireless keyboards, mice, and other peripherals for a clutter-free workspace.

Full-Featured Bluetooth 6.0

Smart Seamless connectivity



Image 3.3: A collage illustrating various applications of the Bluetooth 6.0 adapter, such as fast file transfers, high-quality audio for music and calls, seamless PC gaming, and improved work efficiency with wireless peripherals.

4. MAINTENANCE

The RUIZHI Bluetooth 6.0 USB Adapter is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the adapter if it becomes dusty. Avoid using liquid cleaners or abrasive materials.
- **Storage:** When not in use for extended periods, store the adapter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the adapter or subjecting it to strong impacts, as this may damage internal components.

5. TROUBLESHOOTING

If you encounter issues with your RUIZHI Bluetooth 6.0 USB Adapter, refer to the following common solutions:

5.1 Adapter Not Recognized / Not Working

- **Check USB Port:** Try plugging the adapter into a different USB port on your computer.
- **Restart Computer:** A simple restart can often resolve recognition issues.
- **Driver Installation (Windows 7):** Ensure the correct driver is installed for Windows 7. Refer to Section 2.2.
- **Device Manager:** Open Device Manager (search in Windows) and check for any unknown devices or devices with yellow exclamation marks. If found, try updating the driver or reinstalling the adapter.

5.2 Unable to Pair Devices

- **Device Pairing Mode:** Ensure your Bluetooth device is in pairing mode. Refer to your device's manual for specific instructions.
- **Proximity:** Make sure the Bluetooth device is within close range of the adapter during pairing.
- **Interference:** Move away from other wireless devices (Wi-Fi routers, cordless phones) that might cause interference.
- **Restart Bluetooth Service:** In Windows Services (search for "Services"), find "Bluetooth Support Service," right-click, and select "Restart."

5.3 Poor Connection / Limited Range

- **Antenna Position:** Adjust the adapter's 360-degree rotating antenna to optimize signal reception. Refer to Section 3.2.
- **Obstructions:** Walls, furniture, and other physical obstructions can significantly reduce Bluetooth range. Try to minimize these between the adapter and your device.
- **Interference:** High electromagnetic interference from other electronics can affect signal quality.
- **Device Battery:** Ensure your connected Bluetooth device has sufficient battery charge.

5.4 Audio Latency (Delay)

- While Bluetooth 6.0 offers improved performance, some latency can occur, especially with certain audio codecs or when multiple devices are connected.
- **Reduce Connected Devices:** Disconnect other Bluetooth devices if you are experiencing significant audio latency.
- **Check Audio Codec:** Ensure your audio device and software are using efficient audio codecs.

6. SPECIFICATIONS

Detailed technical specifications for the RUIZHI Bluetooth 6.0 USB Adapter:

Feature	Specification
Brand	RUIZHI
Model Number	Bluetooth 6.0 Adapter
Hardware Interface	Bluetooth, USB 2.0, USB 3.0
Color	Black
Compatible Devices	Desktop, Laptop, Mouse, Tablet

Data Link Protocol	Bluetooth, USB
Data Transfer Rate	3 Megabits Per Second (Mbps)
Bluetooth Version	Bluetooth 6.0 (backward compatible with 5.4/5.3/5.1)
Range (Outdoor)	Up to 200 meters
Range (Indoor)	Approx. 10-20 meters
Item Weight	0.02 Kilograms
Supported Protocols	A2DP, HSP, AVRCP, HD, SBC, AAC, DID, IOP

The Latest Bluetooth 6.0+ EDR Technology

Quick response and better anti-interference

System:	Bluetooth 6.0	Bluetooth 5.3/5.4
LMP:	14.5X	LMP: 12/13X
Range:	10-20M(actual)	10M(actual)
Speed:	More quickly	Slower
User experience:	Higher Sound Quality	Background noise
Compatible with :	Bluetooth 5.4/5.3/5.0 /5.1/4.0/2.0/2.1	Bluetooth 5.0/5.1/4.0/ 2.0/2.1

Image 6.1: A comparison table detailing the advantages of Bluetooth 6.0+ EDR technology over older versions like Bluetooth 5.3/5.4, including faster response, better anti-interference, increased range, and higher sound quality.

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact the retailer where the RUIZHI Bluetooth 6.0 USB Adapter was purchased. Keep your proof of purchase for warranty claims.

