

VIKEFON BTB002BL

VIKEFON BTB002BL Bluetooth 5.0 Transmitter Receiver User Manual

Model: BTB002BL

1. INTRODUCTION

The VIKEFON BTB002BL is a versatile 3-in-1 Bluetooth 5.0 audio adapter designed to enhance your audio experience. It functions as a Bluetooth Transmitter (TX), a Bluetooth Receiver (RX), and supports a direct wired Bypass connection. Featuring advanced Bluetooth 5.0 technology, a CSR8675 chip, aptX HD, and aptX Low Latency codecs, this device ensures high-fidelity audio transmission with minimal delay. It also includes NFC for quick pairing and offers an extended operating range.



Image 1.1: VIKEFON BTB002BL Bluetooth 5.0 Transmitter Receiver. This image displays the device from an angled front view, highlighting its dual antennas, LED indicators for RX, OPT, AUX, TX, HD, LL, SBC, and NFC logo, along with control buttons.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x VIKEFON BTB002BL 3-in-1 Bluetooth 5.0 Transmitter Receiver
- 1 x Optical Digital Cable (1m)
- 1 x 3.5mm Audio Cable (0.5m)
- 1 x RCA Audio Cable
- 1 x USB Charging Cable
- 1 x User Guide



Image 2.1: What's in the Box. This image shows the main unit and all included accessories: RCA audio cable, optical cable, USB charging cable, 3.5mm audio cable, and the user guide.

3. DEVICE OVERVIEW

Familiarize yourself with the device's components and controls:



Image 3.1: Device Ports and Controls. This diagram labels the Power switch (ON/OFF), Mode switch (TX/RX/Bypass), NFC Instant Connection area, LED indicators (RX, OPT, AUX, TX, HD, LL, SBC), Quick pairing mode button, Play/Pause button, Volume +/Next Track button, Volume -/Previous Track button, TX Input, DC 5V charging port, and RX Output ports.

- **Power Switch:** ON/OFF slider.
- **Mode Switch:** Selects Transmitter (TX), Receiver (RX), or Bypass mode.
- **NFC Area:** For quick pairing with NFC-enabled devices.
- **LED Indicators:** Display current mode (RX/TX), audio input/output type (OPT/AUX), and active audio codec (HD/LL/SBC).
- **Control Buttons:** Quick pairing, Play/Pause, Volume Up/Next Track, Volume Down/Previous Track.
- **Ports:** TX Input (Optical/AUX), DC 5V (USB charging), RX Output (Optical/AUX).

4. SETUP

4.1. Charging the Device

Before initial use, fully charge the device. Connect the supplied USB charging cable to the DC 5V port on the adapter and to a USB power source (e.g., computer USB port, USB wall adapter). The charging time is approximately 4.5 hours. The device can be used while charging.

4.2. Power On/Off

Slide the Power Switch to the 'ON' position to power on the device. Slide it to 'OFF' to power off. The device will automatically enter sleep mode after 6 minutes without a connection to conserve battery.

5. OPERATING MODES

The VIKEFON BTB002BL supports three distinct operating modes: Transmitter (TX), Receiver (RX), and Bypass.

5.1. Transmitter (TX) Mode

In TX mode, the adapter transmits audio wirelessly from a non-Bluetooth device (e.g., TV, PC, iPod) to Bluetooth-enabled headphones or speakers.

1. Slide the Mode Switch to 'TX'.
2. Connect the adapter's TX Input to your audio source (TV, PC) using the appropriate cable (Optical or 3.5mm AUX).
3. Ensure your Bluetooth headphones/speakers are in pairing mode.
4. The adapter will automatically search for and connect to nearby Bluetooth devices. The TX LED will illuminate, and the codec LED (HD, LL, or SBC) will indicate the active audio codec.

Enjoy Dual Stream Audio No Lip Sync Delay

Qualcomm® aptX™ low latency



Transmitter (TX) Mode



Image 5.1: Transmitter (TX) Mode. This image illustrates the TX mode, showing a TV/computer connected to the adapter, which then wirelessly transmits audio to two pairs of Bluetooth headphones and a Bluetooth speaker.

5.2. Receiver (RX) Mode

In RX mode, the adapter receives audio wirelessly from a Bluetooth-enabled device (e.g., smartphone, tablet) and outputs it to a non-Bluetooth audio system (e.g., wired speakers, home stereo).

1. Slide the Mode Switch to 'RX'.
2. Connect the adapter's RX Output to your audio system (speakers, amplifier) using the appropriate cable (Optical, 3.5mm AUX, or RCA).
3. Enable Bluetooth on your smartphone or tablet and search for 'VIKEFON BTB002BL'.
4. Select the device to pair. The RX LED will illuminate, and the codec LED will indicate the active audio codec.



Image 5.2: Receiver (RX) Mode. This image shows a smartphone wirelessly connected to the adapter in RX mode, which is then wired to a traditional speaker system.

5.3. Bypass Mode (Wired Connection)

Bypass mode allows for a direct wired connection between your audio source and output device, bypassing the Bluetooth functionality. This is useful when Bluetooth is not needed or when you want to quickly switch between wired and wireless without re-cabling.

1. Slide the Mode Switch to 'BYPASS'.
2. Connect your audio source (e.g., TV) to the adapter's TX Input.
3. Connect your audio output device (e.g., soundbar, wired speakers) to the adapter's RX Output.
4. Audio will pass through the adapter directly.

Refer to Image 5.2 for a visual representation of Bypass Mode, showing a TV connected to a soundbar via the adapter.

6. PAIRING AND CONNECTION

6.1. Bluetooth Pairing

To pair with a new device:

1. Set the adapter to TX or RX mode as required.
2. Press and hold the 'Quick Pairing' button (often indicated by a double arrow icon) for 3 seconds until the relevant mode LED flashes rapidly.
3. Enable Bluetooth on your target device (headphones, speakers, smartphone) and put it into pairing mode.
4. Select 'VIKEFON BTB002BL' from the list of available devices.
5. Once connected, the mode LED will become solid.

6.2. NFC Pairing (Receiver Mode Only)

For quick pairing in RX mode with NFC-enabled smartphones:

1. Ensure the adapter is in RX mode and powered on.
2. Enable NFC on your smartphone.
3. Tap your smartphone near the NFC logo on the adapter.
4. Confirm the pairing request on your smartphone.

6.3. Dual Stream (TX Mode) / Multi-Point (RX Mode)

The device supports connecting to two Bluetooth devices simultaneously:

- **TX Mode (Dual Stream):** After pairing with the first Bluetooth headphone/speaker, put the second device into pairing mode and press the 'Quick Pairing' button on the adapter again. The adapter will connect to both devices, allowing two users to listen to the same audio source.
- **RX Mode (Multi-Point):** The adapter can connect to two smartphones simultaneously. After connecting the first phone, connect the second phone. You can then switch between audio sources from either phone.

7. AUDIO CODECS

The VIKEFON BTB002BL supports several audio codecs, indicated by the LEDs on the device:

- **aptX HD:** Provides high-definition audio quality, offering a superior listening experience. For aptX HD to be active, both the adapter and the connected Bluetooth device must support aptX HD.
- **aptX Low Latency (aptX LL):** Minimizes audio delay, ensuring perfect synchronization between video and audio, ideal for watching TV or movies. Both devices must support aptX LL for this codec to be active.
- **SBC:** The standard Bluetooth audio codec, offering basic audio quality. This codec will be used if aptX HD or aptX LL are not supported by both connected devices.



CSR 8675  HD  AptX  DAC 

CSR8675 Chip High-Fidelity AptX HD AptX Low Latency 24 bit DAC

- ✓ Bluetooth 5.0 Technology
- ✓ CSR8675 High-End Chip
- ✓ AptX HD- High fidelity lossless sound quality
- ✓ AptX Low Latency-No Lip Sync Delay
- ✓ 24 DAC- "Better than CD" listening experience

Note: In order to activate the codec of aptX HD, your paired Bluetooth headphones or speaker also need to support the same codec.

Image 7.1: Audio Codec Features. This image highlights the CSR8675 chip, Bluetooth 5.0 technology, aptX HD for high-fidelity sound, aptX Low Latency for no lip sync delay, and 24-bit DAC for enhanced listening.

8. MAINTENANCE

8.1. Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as they may damage the surface or internal components.

8.2. Battery Care

To prolong battery life, avoid fully discharging the device frequently. If storing for an extended period, charge the battery to approximately 50% and recharge every few months.

8.3. Storage

Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

9. TROUBLESHOOTING

If you encounter issues with your VIKEFON BTB002BL, please refer to the following common problems and solutions:

- **No Sound:**

- Ensure the device is powered on and in the correct TX/RX mode.
- Check all audio cables are securely connected.
- Verify that the connected Bluetooth device (headphones/speakers/smartphone) is powered on, paired, and its volume is adjusted.
- Confirm the audio source is playing and its volume is up.
- For optical connections, ensure your audio source is set to PCM/LPCM output.

- **Cannot Pair:**

- Ensure the adapter is in pairing mode (mode LED flashing rapidly).
- Ensure the target Bluetooth device is in pairing mode.
- Move the devices closer to each other.
- Clear previous pairing records on both devices and try again.
- Restart both the adapter and the target Bluetooth device.

- **Short Range/Intermittent Connection:**

- Bluetooth range can be affected by physical obstacles (walls, furniture) and interference from other wireless devices (Wi-Fi routers, cordless phones).
- Reduce the distance between the adapter and the connected Bluetooth device.
- Minimize interference by moving other wireless devices away.

- **Audio Delay (Lip Sync Issues):**

- Ensure both the adapter and your Bluetooth headphones/speakers support aptX Low Latency (aptX LL). The 'LL' LED should be illuminated.
- If aptX LL is not supported by one of the devices, some delay may occur.

- **Low Battery Reminder:**

- When the battery level drops below 20%, the device will provide a low battery reminder. Connect the USB charging cable to recharge.

10. SPECIFICATIONS

Brand	VIKEFON
Model	BTB002BL
Bluetooth Version	5.0
Bluetooth Chip	CSR8675
Bluetooth Profiles (RX)	A2DP, AVRCP
Bluetooth Profiles (TX)	A2DP
Operating Range	Up to 80m (262ft) unobstructed
Working Time (RX)	Up to 20 Hours
Working Time (TX)	Up to 15 Hours

Input Voltage/Current	DC 5V
Charging Time	Approximately 4.5 Hours
Battery	1000mAh Rechargeable Li-ion Battery
Input/Output Connection	SPDIF (Optical), 3.5mm Stereo Audio Interface
Audio Codecs	aptX HD, aptX Low Latency, aptX, SBC
Weight	200g
Dimensions	125.5 x 75.5 x 24mm
Material	Plastic

11. WARRANTY AND SUPPORT



11.1. Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the warranty policy provided at the point of purchase or contact your retailer for specific details regarding warranty coverage and duration.

11.2. Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact VIKEFON customer support through the retailer's platform or the official VIKEFON website. Please have your model number (BTB002BL) and purchase information ready when contacting support.

Related Documents - BTB002BL

<div>Optical Wireless Audio Transceiver & Adapter</div> <div></div> <div>Instruction Manual</div> <div>V1.0</div>	<div>Optical Wireless Audio Transceiver & Adapter Instruction Manual V1.0</div> <div>Instruction manual for the Optical Wireless Audio Transceiver & Adapter (V1.0), detailing product specifications, setup, operation modes (RX, TX, Bypass), charging, control functions, troubleshooting, and NFC connectivity.</div>
<div>User Manual</div> <div>HDMI Wireless Extender</div> <div></div>	<div>HDMI Wireless Extender User Manual: Setup, Features, and Troubleshooting</div> <div>Comprehensive user manual for the VIKEFON HDMI Wireless Extender. Learn about setup, features, specifications, connection diagrams, pairing methods, and common troubleshooting for extending HDMI signals wirelessly up to 50 meters.</div>

