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› **TROND Bluetooth 5.0 Transmitter Receiver, Bluetooth Adapter for TV, 2 in 1 Wireless Audio Transmitter for PC MP3 Gym Airplane, Receiver for Speakers Headphones Boat Car User Manual**

TROND BT-DUO S

TROND BT-DUO S Bluetooth 5.0 Transmitter Receiver User Manual

Model: BT-DUO S | Brand: TROND

INTRODUCTION

The TROND BT-DUO S is a versatile 2-in-1 Bluetooth 5.0 audio adapter that functions as both a transmitter (TX) and a receiver (RX). It is designed to bring wireless audio capabilities to a wide range of devices, from TVs and PCs to wired headphones and home stereo systems. Featuring aptX and aptX Low Latency support, it ensures high-quality audio with minimal delay, making it ideal for watching videos without noticeable lip-sync issues.
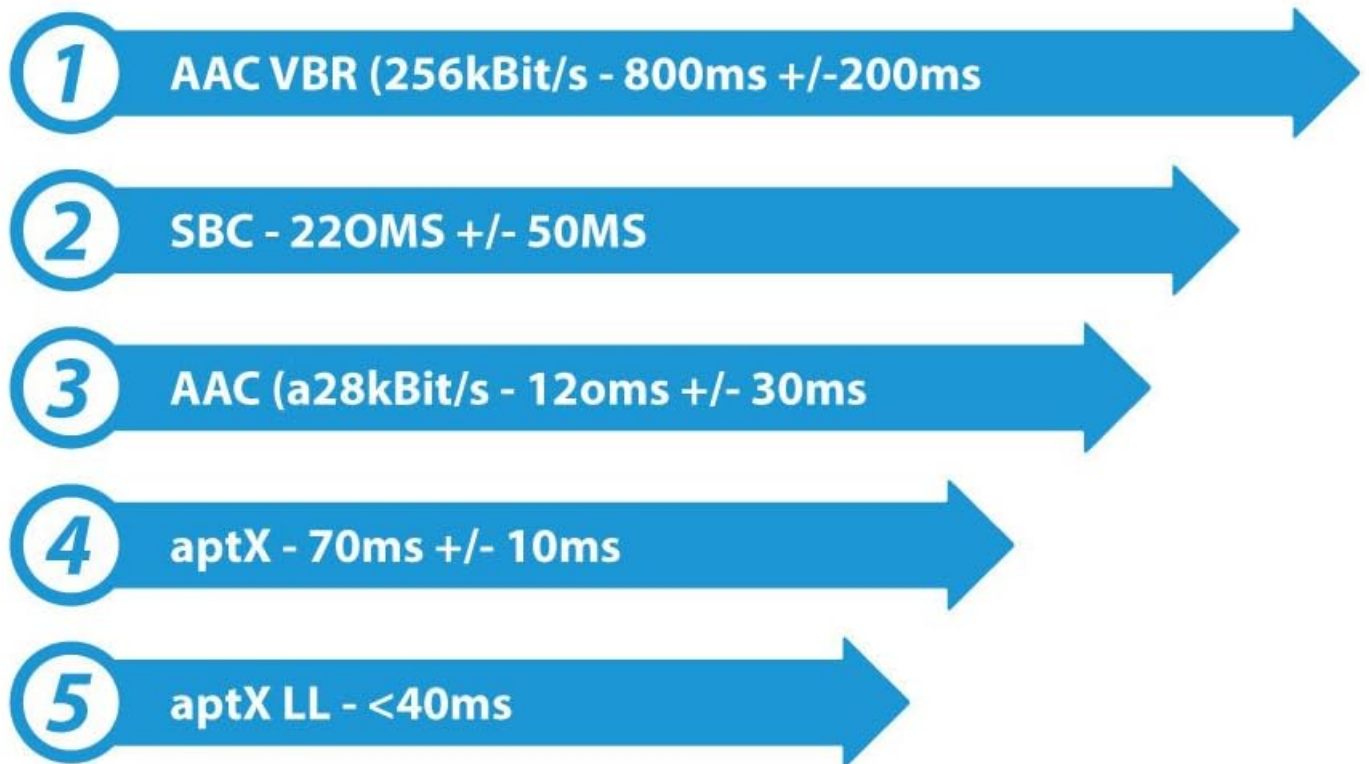
This manual provides detailed instructions on setting up, operating, and maintaining your TROND BT-DUO S, along with troubleshooting tips and product specifications.

PACKAGE CONTENTS

Before you begin, please ensure all items are present in the package:

- TROND BT-DUO S 3.5mm Bluetooth V5.0 Transceiver with aptX Low Latency
- 3.5mm male to 3.5mm male aluminum audio adapter
- 3.5mm male to 3.5mm male audio cable (50cm extra-long)
- 3.5mm female to RCA male audio cable
- USB to micro USB charging cable
- User manual (this guide)

RELATIVE LATENCY BY BLUETOOTH AUDIO CODEC

1. AAC VBR (256kBit/s - 800ms +/-200ms

2. SBC - 22OMS +/- 50MS

3. AAC (a28kBit/s - 12oms +/- 30ms

4. aptX - 70ms +/- 10ms

5. aptX LL - <40ms

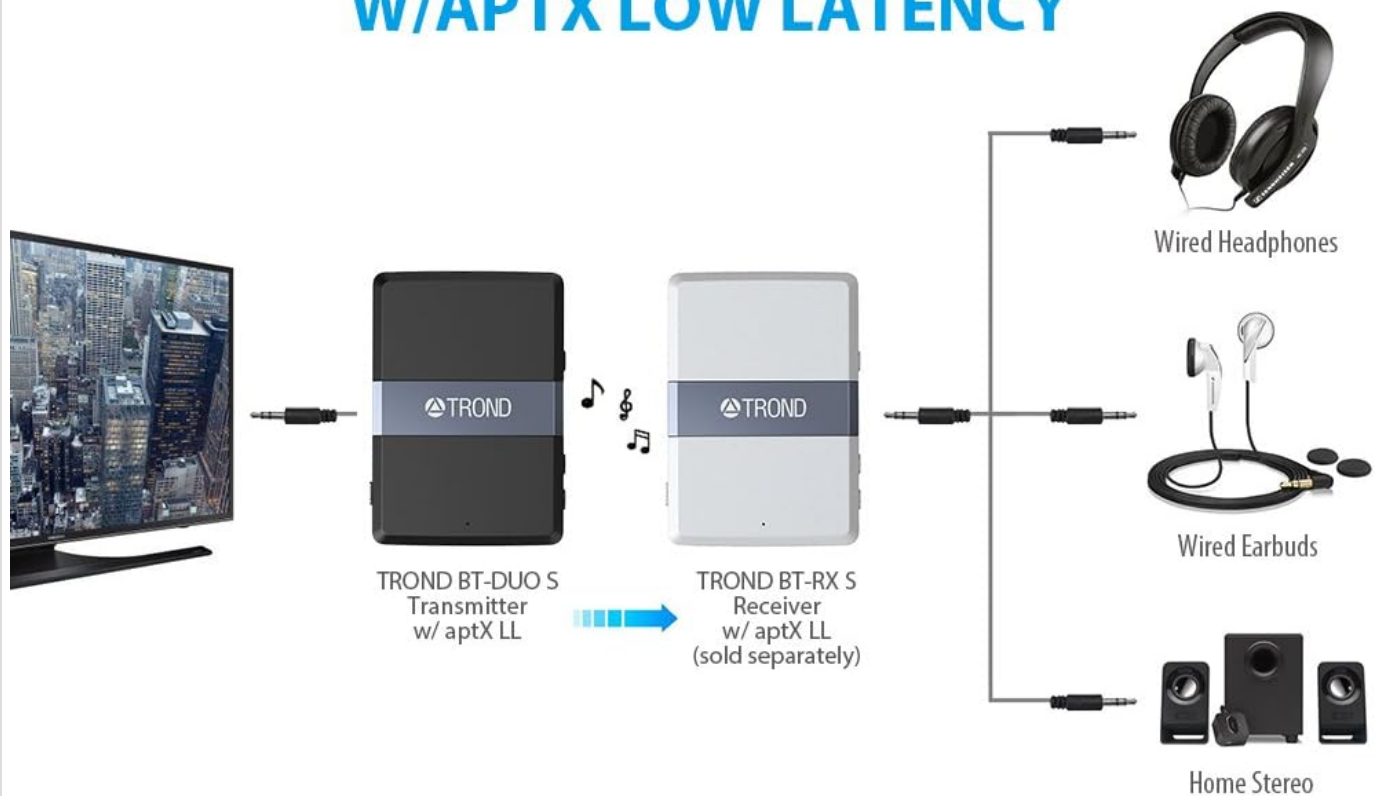**Latency in milliseconds(ms)
lower latency= better lip syncing**

IMPORTANT: In order to take advantage of aptX LL or aptX, your Bluetooth headphones or speakers have to support aptX LL or aptX as well. Otherwise, the codec will be downgraded to SBC.

Figure 1: Contents of the TROND BT-DUO S package. Includes the main unit, audio adapters, cables, and user guide.

PRODUCT OVERVIEW

Familiarize yourself with the TROND BT-DUO S device and its various ports and buttons.

ENJOY LIP-SYNC TV SHOWS W/APTX LOW LATENCY

Wired Headphones

Wired Earbuds

Home Stereo

TROND BT-DUO S
Transmitter
w/ aptX LL

TROND BT-RX S
Receiver
w/ aptX LL
(sold separately)

- According to CSR, when aptX Low Latency is not available, target device will pair down to aptX or SBC. Therefore DO NOT blame Bluetooth transmitters for audio latency; instead, it should be your headphones that don't support aptX LL.

- You don't have to pay high premium for BT headphones with aptX LL. Instead, you could order TROND BT-RX S Receiver (silver) additionally, and use it with TROND BT-DUO S transmitter (black) for the best low latency performance.

Figure 2: Top view of the TROND BT-DUO S, highlighting the Multi-Function Button (MFB) and LED indicator.
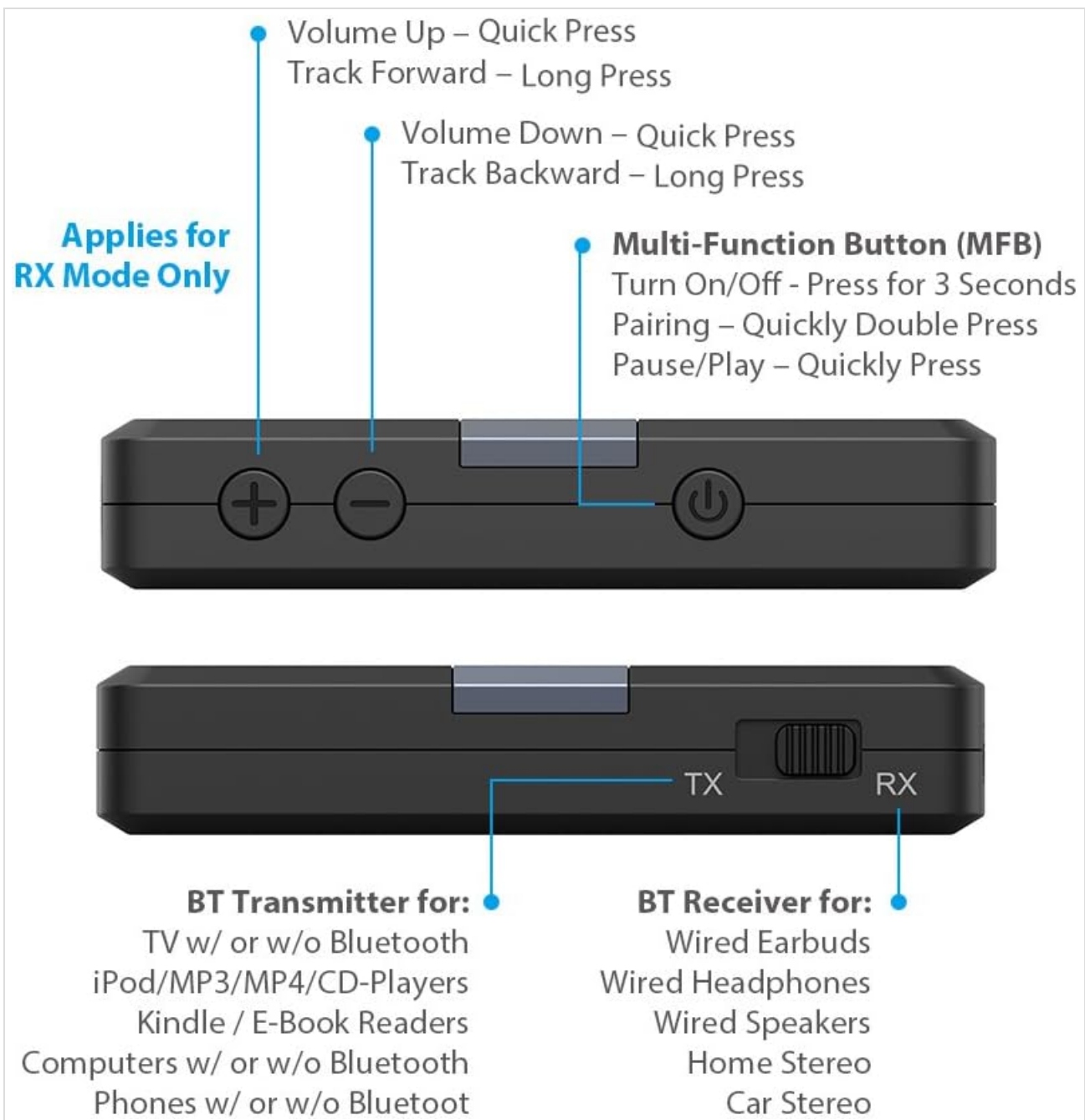
Figure 3: Side view of the TROND BT-DUO S, showing the TX/RX mode switch, volume control buttons, 3.5mm Aux-In port, and Micro USB charging port.

Table 1: LED Indicator Status and Codec Information

Codec (TX/RX)	Blue LED Indicator
SBC	Blinks once every 10 seconds
aptX	Blinks twice every 10 seconds
aptX Low Latency	Blinks three times every 10 seconds

The LED indicator provides visual feedback on the active audio codec. For optimal low latency, ensure your connected device also supports aptX Low Latency.

SETUP AND CHARGING

Initial Charging

Before first use, fully charge your TROND BT-DUO S. Connect the micro USB charging cable to the device's charging port and the other end to a USB power source (e.g., computer USB port, USB wall adapter).

Figure 4: Charging the TROND BT-DUO S. The LED indicator will show red during charging and turn off when fully charged.

- The LED indicator will glow red during charging.
- Once fully charged (approximately 2 hours), the red LED will turn off.
- The device can be used while charging.

OPERATING MODES

The TROND BT-DUO S supports two primary operating modes: Transmitter (TX) and Receiver (RX). Ensure the mode switch is set correctly before powering on the device.

1. Transmitter Mode (TX)

In TX mode, the TROND BT-DUO S transmits audio wirelessly from non-Bluetooth devices (e.g., TV, iPod, MP3 player) to Bluetooth-enabled headphones or speakers.

1. Set the mode switch to **TX** before powering on.
2. Connect the TROND BT-DUO S to your audio source's 3.5mm audio output port using the provided audio cable. If your TV only has a digital optical audio out, you will need a different TROND model (BT-DUO X).
3. Power on the device by pressing and holding the Multi-Function Button (MFB) for 3 seconds until the blue LED flashes twice quickly.
4. For first-time pairing, the device will automatically enter pairing mode (blue and red LEDs flash alternately). For subsequent pairings, quickly double-tap the MFB to enter pairing mode.
5. Put your Bluetooth headphones or speaker into pairing mode.
6. Once successfully paired, the blue LED on the TROND BT-DUO S will stay solid.

Figure 5: TROND BT-DUO S in Transmitter (TX) mode, enabling wireless audio from a TV to Bluetooth headphones. Ideal for watching TV without disturbing others.

Video 1: Tutorial video for pairing the TROND BT-DUO S in TX mode. This video demonstrates the steps to connect the device to an audio source and pair it with Bluetooth headphones.

Video 2: Short Tutorial for BT-DUO in TX/RX. This video provides a quick overview of switching between modes and basic operation.

Video 3: Use Scenarios for BT-DUO/BT-DUO S. This video illustrates various practical applications for the device in both TX and RX modes.

2. Receiver Mode (RX)

In RX mode, the TROND BT-DUO S receives audio wirelessly from Bluetooth-enabled devices (e.g., smartphone, tablet) and outputs it to non-Bluetooth audio devices like wired headphones, speakers, or car stereo systems.

1. Set the mode switch to **RX** before powering on.
2. Connect the TROND BT-DUO S to your wired headphones or speaker's 3.5mm audio input port using the provided audio cable.
3. Power on the device by pressing and holding the MFB for 3 seconds until the blue LED flashes twice quickly.
4. For first-time pairing, the device will automatically enter pairing mode (blue and red LEDs flash alternately). For subsequent pairings, quickly double-tap the MFB to enter pairing mode.
5. On your Bluetooth-enabled device (e.g., smartphone), enable Bluetooth and search for "TROND BT-DUO S" in the list of available devices.
6. Select "TROND BT-DUO S" to pair. Once successfully paired, the blue LED on the TROND BT-DUO S will stay solid.
7. You can now play audio from your Bluetooth device through your wired headphones/speakers.

Smart Codec Indicator for both TX and RX

Codec (TX/RX)	Blue LED Indicator	
SBC	● ● ●	Blinks once every 10 seconds
aptX	● ● ●	Blinks twice every 10 seconds
aptX Low Latency	● ● ●	Blinks 3 times every 10 seconds

Figure 6: TROND BT-DUO S in Receiver (RX) mode, allowing a smartphone to stream audio wirelessly to wired headphones or a home stereo system.

Volume Control (RX Mode Only)

In RX mode, you can control the volume and track selection directly from the TROND BT-DUO S:

- **Volume Up:** Quick press the "+" button.
- **Track Forward:** Long press the "+" button.
- **Volume Down:** Quick press the "-" button.
- **Track Backward:** Long press the "-" button.
- **Play**/**Pause:** Quick press the MFB.

Note: Volume and track control buttons only work in RX mode.

ADVANCED FEATURES

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

The TROND BT-DUO S supports connecting to two Bluetooth devices simultaneously in TX mode (Dual Stream) and two source devices in RX mode (Multi-Point). However, when connecting to two devices in TX mode, the audio codec will be downgraded to SBC to ensure compatibility.

Figure 7: Comparison of audio latencies for different codecs (SBC, aptX, aptX Low Latency) and the dual connection capability of the TROND BT-DUO S.

MAINTENANCE AND CARE

- Keep the device dry. Do not expose it to moisture or extreme temperatures.
- Clean the device with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Store the device in a cool, dry place when not in use.
- Avoid dropping or subjecting the device to strong impacts.

TROUBLESHOOTING

Device not powering on:

- Ensure the device is fully charged.
- Press and hold the MFB for at least 3 seconds.

Cannot pair with a device:

- Ensure the TROND BT-DUO S is in the correct mode (TX or RX) for your intended use.
- Make sure both devices are in pairing mode and within close proximity (within 10 meters/33 feet).
- Clear previous pairing records on both the TROND BT-DUO S and your target device. To reset TROND BT-DUO S, refer to the "Frequent Asked Questions" section in the original user manual (if available).
- Restart both devices and try pairing again.

No audio or poor audio quality:

- Check all cable connections to ensure they are secure.
- Verify that the audio source is playing and its volume is turned up.
- Ensure the volume on the receiving device (headphones/speakers) is also turned up.
- If experiencing latency in TX mode, ensure your receiving Bluetooth headphones/speakers also support aptX Low Latency. Otherwise, the codec will revert to aptX or SBC, which have higher latencies.
- Avoid placing the device near sources of interference (e.g., Wi-Fi routers, microwaves).

Device gets stuck or buttons stop working:

- Press and hold the MFB, then plug in the external USB charger to shut down the BT-DUO S. This will not delete pairing records.

SPECIFICATIONS

Feature	Detail
Bluetooth Compliance	Bluetooth V5.0, CSR 8670 chipset, A2DP
Working Range	Up to 33ft / 10m
Supports (TX mode)	Dual Stream
Supports (RX mode)	Multi-Point
Codecs	APT-X LL (TX/RX), APT-X (TX/RX), SBC (TX/RX)
Working Time	About 10 hours
Charging Time	2 hours / 5V
Dimension	L 55 x W 38 x H 10.5 mm / 2.17 x 1.50 x 0.41 in
Net Weight	17.2 g / 0.61 oz
Model Number	BT-DUO S

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TROND website or contact TROND customer service directly. Contact details can typically be found on the product packaging or the TROND official store page.
You can visit the TROND Store for more information:TROND Official Store