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- > [eppfun](#) /
 - > eppfun AK3046C Bluetooth 5.2 APTX-Adaptive Transmitter Receiver User Manual

eppfun AK3046C

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Model: AK3046C

1. INTRODUCTION

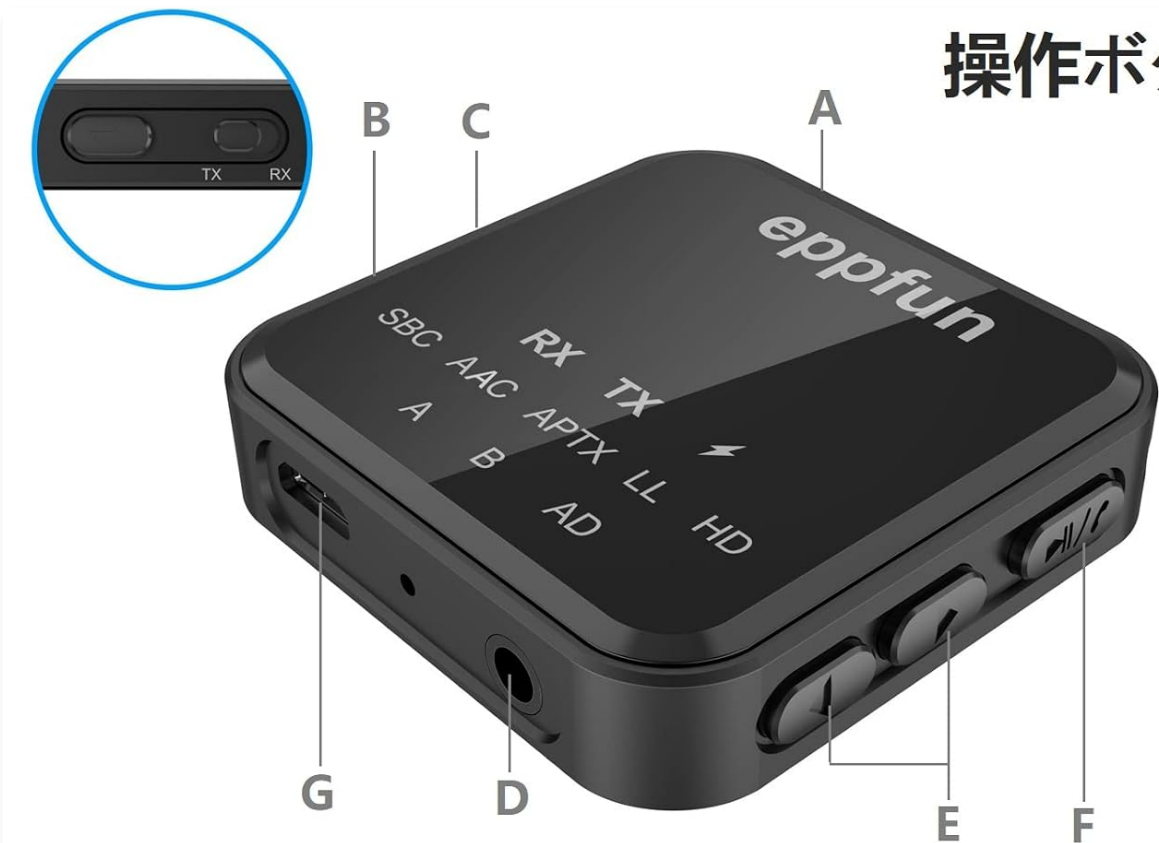
Thank you for purchasing the eppfun AK3046C Bluetooth 5.2 APTX-Adaptive Transmitter Receiver. This device is designed to provide high-quality wireless audio transmission and reception, offering versatile connectivity for various audio setups. Please read this manual carefully to understand the product's features, setup procedures, and operation to ensure optimal performance and a seamless audio experience.

2. PRODUCT OVERVIEW

The eppfun AK3046C is a compact and powerful Bluetooth audio adapter that functions as both a transmitter (TX) and a receiver (RX). It features advanced audio codecs for superior sound quality and minimal latency.

2.1 Device Components and Controls

操作ボタン



A	電源ON/OFF	E	曲戻し/切り替え/ 音量調整
B	RX/TXモード切り替え	F	再生/一時停止
C	ペアリングボタン	G	USB充電インターフェース
D	AUX 3.5mm AUXイン ターフェース	H	LEDインジケータ

Image 1: eppfun AK3046C with labeled controls. This image displays the top and side view of the device, highlighting the power button, RX/TX mode switch, pairing button, AUX 3.5mm input, track/volume buttons, play/pause button, and USB charging interface.

Control Functions

Label	Function
A	Power ON/OFF
B	RX/TX Mode Switch
C	Pairing Button
D	AUX 3.5mm Input Interface
E	Track Skip / Volume Adjustment
F	Play / Pause

Label	Function
G	USB Charging Interface
H	LED Indicator

2.2 Key Features

- **Low Latency & High-Quality Audio:** Equipped with a high-end Qualcomm chip and Bluetooth 5.2 for lossless audio, low latency, and broad compatibility. Supports aptX-Adaptive / aptX-HD codecs for superior audio and minimal delay.
- **Transmitter & Receiver (2-in-1):** Easily switch between TX (transmit) and RX (receive) modes to adapt to various audio needs.
- **Dual Device Connection:** Connects to two Bluetooth headsets simultaneously in TX mode, or two Bluetooth-enabled devices in RX mode.
- **Hands-Free Calling:** Supports hands-free communication.
- **Intuitive Controls:** Features dedicated buttons for playback control, volume adjustment, and mode switching.
- **Clear Indicators:** LED indicators display connection status and active audio codec.

3. SETUP

3.1 Charging the Device

1. Connect the provided USB-C cable to the USB Charging Interface (G) on the AK3046C.
2. Connect the other end of the USB-C cable to a 5V USB power adapter (not included) or a computer's USB port.
3. The LED indicator will show charging status. A full charge takes approximately 2 hours.

3.2 Powering On/Off

- **To Power On:** Press and hold the Power ON/OFF button (A) for a few seconds until the LED indicators light up.
- **To Power Off:** Press and hold the Power ON/OFF button (A) for a few seconds until the LED indicators turn off.

4. OPERATING MODES

The AK3046C supports two main operating modes: Transmitter (TX) and Receiver (RX).

4.1 Switching Modes

Use the RX/TX Mode Switch (B) to toggle between Transmitter and Receiver modes. Ensure the device is powered on before switching modes.

4.2 Transmitter (TX) Mode

In TX mode, the AK3046C transmits audio wirelessly from non-Bluetooth devices to Bluetooth headphones or speakers.

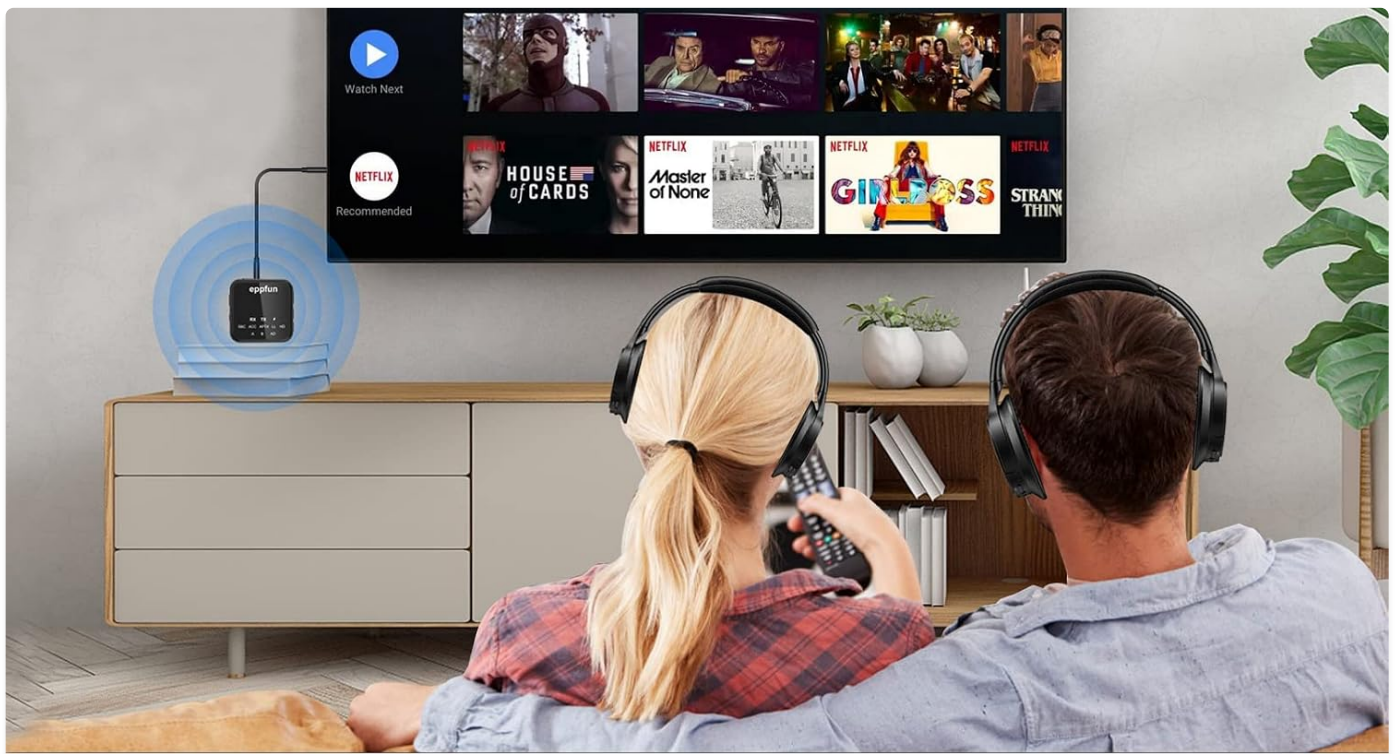


Image 2: TX Mode setup. The diagram illustrates connecting the AK3046C to a TV via AUX/RCA cables and wirelessly streaming audio to two pairs of Bluetooth headphones or a Bluetooth speaker.

1. Set the device to TX mode using the RX/TX Mode Switch (B). The TX LED will illuminate.
2. Connect the AK3046C to your audio source (e.g., TV, PC, MP3 player) using the provided 3.5mm AUX cable or an RCA cable (not included) to the AUX 3.5mm Input Interface (D).
3. Ensure your Bluetooth headphones or speaker are in pairing mode.
4. Press the Pairing Button (C) on the AK3046C to enter pairing mode. The pairing LED will flash.
5. Once connected, the LED indicator for the active codec (e.g., aptX, LL, HD) will light up.
6. **Dual Connection (TX Mode):** To connect a second Bluetooth headset, ensure the first headset is connected. Then, put the second headset into pairing mode and press the Pairing Button (C) on the AK3046C again. Both headsets will output audio simultaneously (using SBC codec if codecs differ).

4.3 Receiver (RX) Mode

In RX mode, the AK3046C receives audio wirelessly from Bluetooth-enabled devices (e.g., smartphones, tablets) and outputs it to wired headphones or speakers.

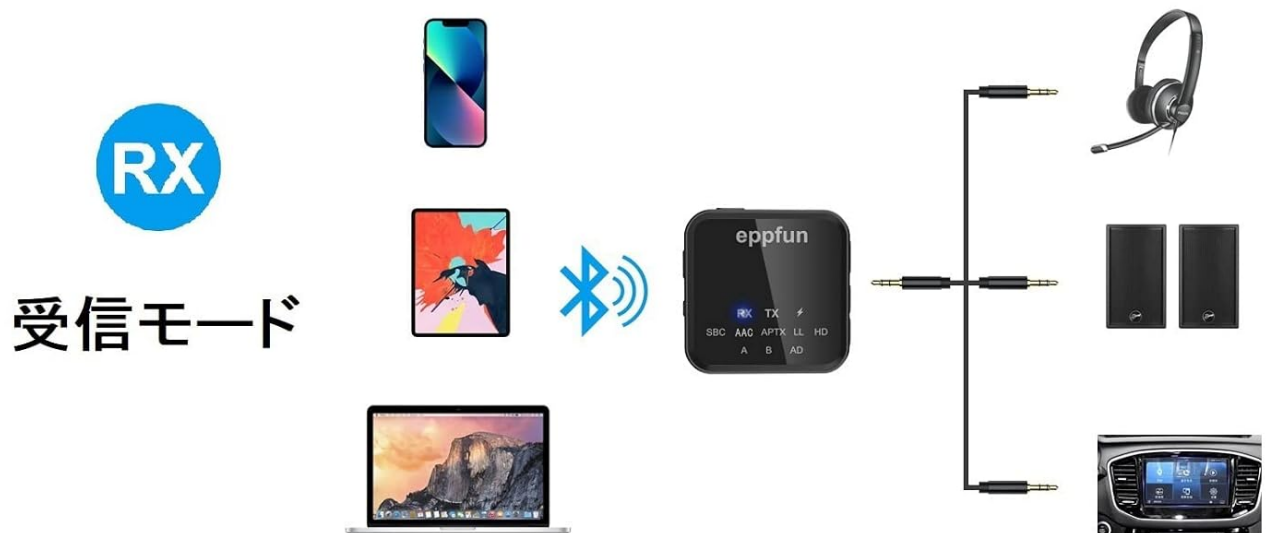


Image 3: RX Mode setup. The diagram illustrates the AK3046C receiving Bluetooth audio from a smartphone or tablet and outputting it to wired speakers, wired headphones, or a car audio system via AUX/RCA cables.

1. Set the device to RX mode using the RX/TX Mode Switch (B). The RX LED will illuminate.
2. Connect your wired headphones or speakers to the AUX 3.5mm Input Interface (D) on the AK3046C using the provided 3.5mm AUX cable or an RCA cable (not included).
3. Enable Bluetooth on your smartphone, tablet, or other audio source and search for "AK3046C".
4. Select "AK3046C" from the list of available devices to pair.
5. Once connected, the LED indicator for the active codec (e.g., aptX, HD, SBC, AAC) will light up.

5. ADVANCED FUNCTIONS

5.1 Audio Codec Support

The AK3046C supports various audio codecs to ensure compatibility and high-quality sound:

- **TX Mode Codecs:** aptX, aptX-Adaptive, aptX LL (Low Latency), aptX HD, SBC.
- **RX Mode Codecs:** aptX, aptX-Adaptive, aptX HD, SBC, AAC.

Important Note:

- For optimal performance, both the AK3046C and the connected Bluetooth device (headset/speaker) must support the same codec.
- The AK3046C does not support the AAC audio codec in TX mode. If your headset only supports AAC/SBC, it will connect using SBC in TX mode.

5.2 Latency Performance

Bluetooth communication inherently has some latency. The AK3046C minimizes this with advanced codecs:

- **aptX LL:** Approximately 40 ms
- **aptX:** Approximately 60-80 ms
- **aptX-Adaptive:** Approximately 60 ms
- **aptX-HD:** Approximately 100 ms
- **AAC:** Approximately 90-150 ms
- **SBC:** Approximately 170-270 ms

Actual latency may vary depending on the processing speed of the connected devices.

5.3 Convenient Button Functions

- **Play/Pause (F):** Press to play or pause audio.
- **Volume Adjustment (E):** Press briefly to adjust volume up or down.
- **Track Skip (E):** Press and hold to skip to the next or previous track.
- **Mute (TX Mode):** One-touch mute function is available in Transmitter mode.

6. PACKAGE CONTENTS

The eppfun AK3046C package includes:

- eppfun AK3046C Bluetooth Transmitter Receiver
- USB-C Charging Cable
- 3.5mm AUX Audio Cable
- User Manual (this document)

7. SPECIFICATIONS

eppfun AK3046C Technical Specifications

Feature	Detail
Model	AK3046C
Bluetooth Version	5.2
Frequency Band	2.402GHz - 2.480GHz
Communication Distance	Up to 10 meters (33 feet)
TX Mode Codecs	aptX, aptX-Adaptive, aptX LL, aptX HD, SBC
RX Mode Codecs	aptX, aptX-Adaptive, aptX HD, SBC, AAC

Feature	Detail
Charging Time	Approx. 2 hours
Continuous Usage (TX Mode)	Approx. 12 hours
Continuous Usage (RX Mode)	Approx. 20 hours
Dimensions	48mm x 48mm x 11mm
Weight	24.5g
Material	Acrylonitrile Butadiene Styrene (ABS), Metal
Compatible Devices	MP3 players, Speakers, TVs, Laptops, Car Audio Systems
Compatible OS	Android, Windows

8. MAINTENANCE

To ensure the longevity and optimal performance of your eppfun AK3046C, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using harsh chemicals, cleaning solvents, or strong detergents, as they may damage the surface or internal components.
- **Storage:** Store the device in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts, which can cause internal damage.
- **Water Exposure:** This device is not waterproof. Keep it away from water and other liquids.

9. TROUBLESHOOTING

If you encounter issues with your eppfun AK3046C, please refer to the following common problems and solutions:

- **Device does not power on:**
 - Ensure the device is fully charged. Connect it to a power source using the USB-C cable and allow it to charge for at least 30 minutes.
 - Press and hold the Power ON/OFF button (A) for a few seconds.
- **Cannot pair with a Bluetooth device:**
 - Ensure the AK3046C is in the correct mode (TX for transmitting, RX for receiving).
 - Make sure both the AK3046C and the target Bluetooth device are in pairing mode (LEDs flashing).
 - Place the devices close to each other (within 1 meter).
 - Clear previous pairing records on both devices and try pairing again.
 - Some devices may require a PIN code (usually 0000) during pairing.
- **No sound or low volume:**
 - Check if the AK3046C is correctly connected to the audio source/output device via the 3.5mm AUX cable.
 - Adjust the volume on both the AK3046C and the connected audio device.
 - Ensure the correct audio input/output is selected on your source device (e.g., TV audio output settings).
 - Verify that the connected devices support compatible audio codecs.
- **Audio delay/latency:**
 - Latency varies by codec. For the lowest latency, ensure both devices support and are connected using aptX LL or aptX-Adaptive.
 - Ensure there are no obstructions between the AK3046C and the connected Bluetooth device.

- Reduce the distance between the devices.

- **Intermittent connection or audio dropouts:**

- Ensure the devices are within the 10-meter communication range.
- Avoid physical obstructions (walls, large furniture) and sources of interference (Wi-Fi routers, microwaves).
- Try restarting both the AK3046C and the connected Bluetooth device.

If the problem persists after trying these solutions, please contact customer support.

10. WARRANTY AND SUPPORT

eppfun products come with a **1-year quality warranty** from the date of purchase. If you experience any issues or malfunctions within this period, please contact our customer support team. We are committed to providing responsible assistance and resolving any concerns you may have.

For support, please visit our official website or contact us through the platform where you purchased the product. Please have your order number and product model (AK3046C) ready when contacting support.

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