

eppfun AK3040Pro Ultra

eppfun USB C Bluetooth 5.4 Transmitter Adapter User Manual

Model: AK3040Pro Ultra

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your eppfun USB C Bluetooth 5.4 Transmitter Adapter. Please read it thoroughly before operation and retain it for future reference.

The eppfun AK3040Pro Ultra is a portable high-resolution Bluetooth transmitter designed to provide wireless audio connectivity for game players and mobile users. It supports advanced audio codecs such as LDAC, aptX Adaptive, and aptX Lossless for superior sound quality and low latency.

2. PRODUCT OVERVIEW

The eppfun AK3040Pro Ultra features a compact design with a USB-C connector for broad compatibility. It incorporates a Qualcomm QCC5181 Bluetooth chip, ensuring stable connections and efficient power consumption.



Figure 2.1: Front view of the eppfun USB C Bluetooth 5.4 Transmitter Adapter, showing its compact black design with a blue indicator light and gold-plated USB-C connector.

2.1 Key Features

- **Bluetooth 5.4 LE Technology:** Ensures stable connections, extended transmission range, and improved system performance with lower power consumption.
- **High-Resolution Audio Codec Support:** Compatible with LDAC, aptX Adaptive, and aptX Lossless for high-fidelity audio transmission.
- **Gold-Plated Interfaces:** Enhances conductivity, oxidation resistance, and connection stability.
- **Wide Compatibility:** Supports devices with USB-C interfaces, including PS5, Xbox Series X/S, Nintendo Switch, PC, Mac, laptops, tablets, and smartphones.
- **Management App (Future Release):** Allows for extended functionality, including simultaneous device pairing and codec switching.

2.2 Package Contents

Verify that all items are present in the package:

- eppfun USB C Bluetooth 5.4 Transmitter Adapter (AK3040Pro Ultra)
- User Manual (this document)
- *(Note: Specific cable or adapter accessories may vary by region or package. Refer to product packaging for exact contents.)*

3. SETUP AND INSTALLATION

The eppfun AK3040Pro Ultra is designed for plug-and-play operation. No drivers are typically required for basic functionality on supported operating systems and consoles.

3.1 Connecting to a Device

1. Identify the USB-C port on your host device (e.g., PS5, PC, Nintendo Switch, smartphone).
2. Insert the eppfun AK3040Pro Ultra transmitter firmly into the USB-C port.
3. The device will typically be recognized automatically. The indicator light on the transmitter will illuminate, indicating power.

The eppfun logo is located in the top left corner of the image. It consists of the word "eppfun" in a lowercase, sans-serif font, with a blue-to-teal gradient.

Qualcomm®
aptX™ Adaptive

aptX / aptX LL / aptX HD

aptX Lossless

Snapdragon Sound

Qualcomm Bluetooth 5.4



Figure 3.1: The eppfun transmitter connected to a laptop's USB-C port, illustrating its compact size when in use.

3.2 Pairing with Bluetooth Headphones/Speakers

Once the transmitter is connected to your host device:

1. Put your Bluetooth headphones or speakers into pairing mode. Refer to your audio device's manual for specific instructions on how to enter pairing mode.
2. The eppfun AK3040Pro Ultra will automatically search for nearby Bluetooth devices in pairing mode.
3. Once paired, the indicator light on the transmitter will change its state (e.g., solid blue, or a specific color indicating the active codec).
4. Verify audio output through your paired headphones/speakers.

AURACAST BROADCAST

eppfun AK3040 Pro Ultra can link with Nx Receivers
with LE Audio at the same time
with Management App

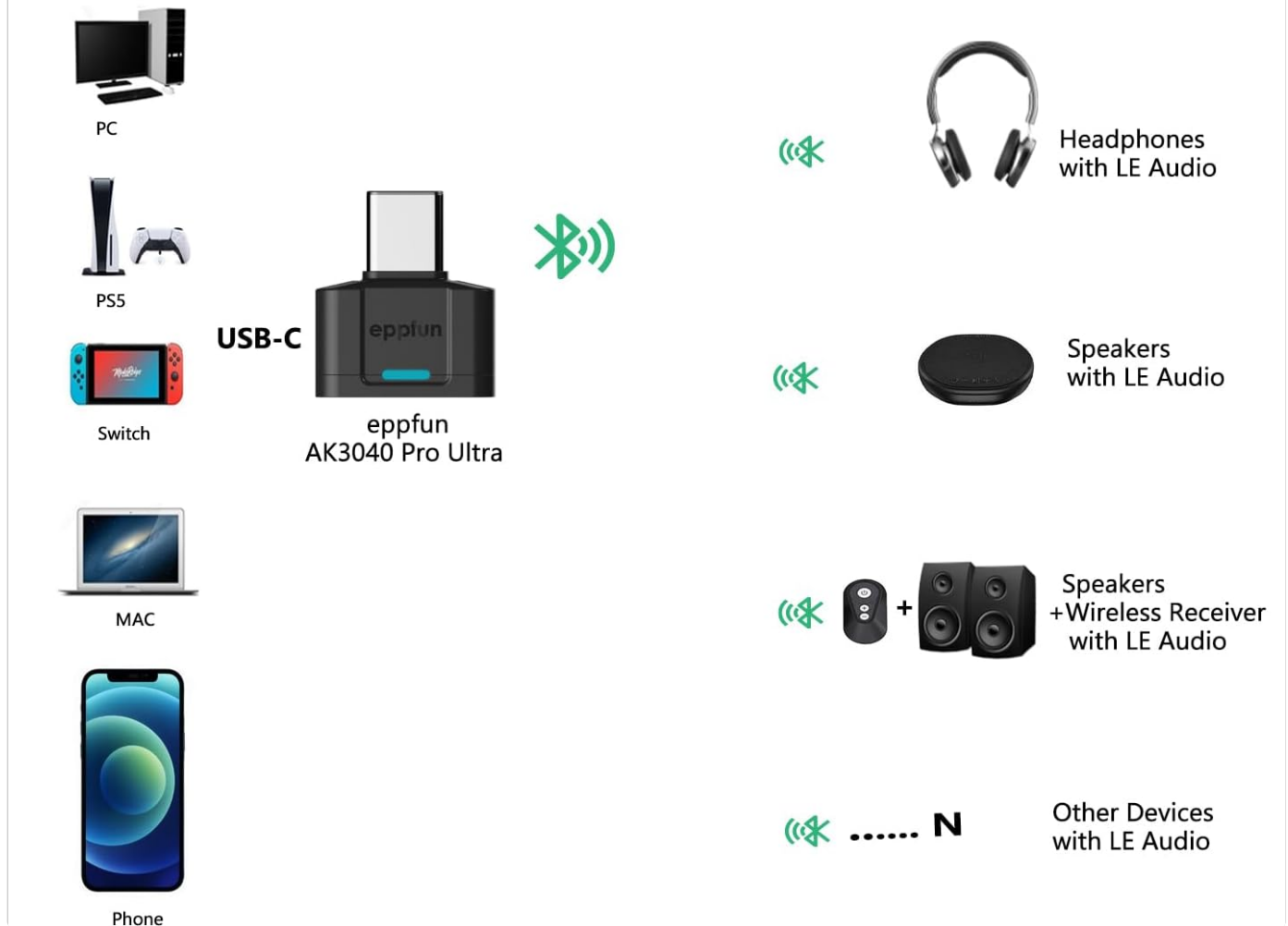


Figure 3.2: An illustration demonstrating the broad compatibility of the eppfun AK3040 Pro Ultra, showing connections to PC, PS5, Switch, Mac, and Phone, and broadcasting to headphones, speakers, and wireless receivers with LE Audio.

Wide Compatibility between Transmitter and Receiver

The input USB C supports all DP interface devices, while the wireless input supports both classic Bluetooth and LE Audio



Figure 3.3: A visual representation of the eppfun transmitter's wide compatibility, connecting to Bluetooth headsets, soundbars, speakers, and earbuds, and receiving input from PC, PS5, Nintendo Switch, and Mac.

4. OPERATING INSTRUCTIONS

4.1 Codec Indicator and Selection

The eppfun AK3040Pro Ultra features an indicator LED that changes color to signify the active audio codec. This allows users to quickly identify the current audio transmission mode.

MULTIPLE CODEC INDICATOR AND SELECTION

Press button to switch between codecs

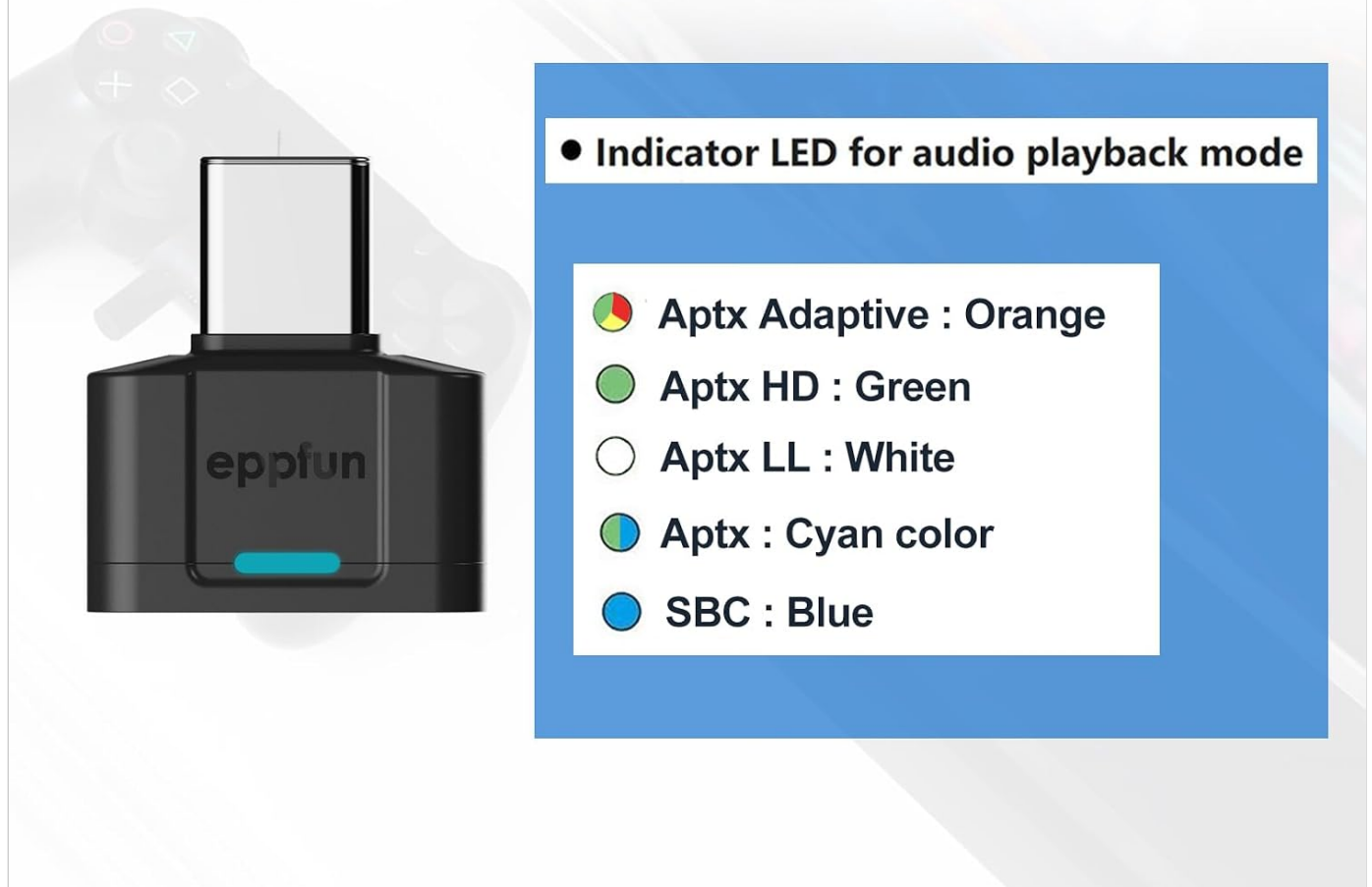


Figure 4.1: A visual guide to the indicator LED colors and their corresponding audio playback modes: Aptx Adaptive (Orange), Aptx HD (Green), Aptx LL (White), Aptx (Cyan), and SBC (Blue).

While the current version does not have a physical button for codec switching, future software updates via the management app are expected to provide this functionality. The device will automatically attempt to connect using the highest quality codec supported by both the transmitter and the receiving audio device.

Table 4.1: Codec Indicator LED Meanings

LED Color	Audio Codec	Description
Orange	Aptx Adaptive	Dynamic codec adjusting for optimal quality and latency based on content and environment.
Green	Aptx HD	High-definition audio codec for superior sound quality.
White	Aptx LL	Low Latency codec, ideal for gaming and video synchronization.
Cyan	Aptx	Standard aptX codec, offering better quality than SBC.

LED Color	Audio Codec	Description
Blue	SBC	Basic Bluetooth audio codec, widely compatible.

4.2 LDAC Audio Transmission

The eppfun AK3040Pro Ultra supports LDAC, a high-resolution audio codec capable of transmitting audio at bit rates up to 990 kbps. This provides significantly higher quality audio compared to traditional codecs like SBC (max 328 kbps) while maintaining relatively low latency. For LDAC to function, both the transmitter and the receiving audio device must support the LDAC codec.

5. MAINTENANCE

The eppfun AK3040Pro Ultra requires minimal maintenance to ensure its longevity and optimal performance.

- **Cleaning:** Use a soft, dry cloth to wipe the surface of the transmitter. Do not use liquid cleaners, aerosols, or solvents.
- **Storage:** When not in use, store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts. Do not attempt to disassemble the unit, as this will void the warranty.
- **Connector Care:** Keep the USB-C connector clean and free of dust or debris. The gold-plated interface is designed for durability but can be affected by foreign particles.

6. TROUBLESHOOTING

If you encounter issues with your eppfun AK3040Pro Ultra, please refer to the following common problems and solutions:

Table 6.1: Troubleshooting Guide

Problem	Possible Cause	Solution
No audio output.	Transmitter not properly connected. Headphones/speakers not paired or not in pairing mode. Incorrect audio output selected on host device.	Ensure the transmitter is fully inserted into the USB-C port. Put your headphones/speakers into pairing mode and re-attempt connection. On your host device (e.g., PC, PS5), verify that the audio output is set to the eppfun transmitter or "USB Audio".
Poor audio quality or disconnections.	Interference from other wireless devices. Distance from paired device is too far. Codec mismatch or unstable codec.	Move away from other Wi-Fi routers, cordless phones, or Bluetooth devices. Reduce the distance between the transmitter and your audio device. Ensure your audio device supports the desired high-quality codec (LDAC, aptX Adaptive/HD). If issues persist, try pairing with a different audio device or restarting both the transmitter and audio device.

Problem	Possible Cause	Solution
Transmitter not recognized by host device.	Loose connection. Incompatible USB-C port (e.g., charging-only port). Host device requires a restart.	Re-insert the transmitter firmly. Try a different USB-C port on your device, ensuring it supports data transfer. Restart your host device (PC, console, smartphone).
Indicator LED not lighting up.	No power. Faulty unit.	Ensure the transmitter is correctly inserted into a powered USB-C port. If the issue persists after trying different ports and devices, contact customer support.

If the problem persists after attempting these solutions, please contact eppfun customer support for further assistance.

7. SPECIFICATIONS

Table 7.1: Product Specifications

Feature	Detail
Model	AK3040Pro Ultra
Bluetooth Version	5.4 LE (Low Energy)
Bluetooth Chip	Qualcomm QCC5181
Supported Audio Codecs	LDAC, aptX Adaptive, aptX Lossless, aptX HD, aptX, SBC
Connector Type	USB Type-C (Gold-plated)
Compatible Devices	PS5, Xbox Series X/S, Nintendo Switch, PC, Mac, Laptops, Tablets, Smartphones with USB-C
Product Dimensions (L x W x H)	5.91 x 1.97 x 3.94 inches
Item Weight	2.29 ounces
Color	Black
Manufacturer	eppfun
Country of Origin	China

8. WARRANTY AND SUPPORT

8.1 Warranty Information

eppfun products are covered by a limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or external causes.

For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official eppfun website.

8.2 Customer Support

If you require technical assistance or have questions regarding your eppfun USB C Bluetooth 5.4 Transmitter Adapter, please contact eppfun customer support:

- **Website:** Visit the [eppfun Store on Amazon](#) (for product information and updates)
- **Email:** Refer to the product packaging or official website for direct support contact information.

When contacting support, please have your product model (AK3040Pro Ultra) and purchase details ready.

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Product specifications are subject to change without notice.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question