

# Bluetooth Adapter

## FSC-BP401 Datasheet



**FEASYCOM**

## 1. Overview

The FSC-BP401 is a Bluetooth audio transmitter that supports both classic Bluetooth and LE Audio, compatible with Bluetooth 5.4, and featuring a USB 2.0 interface. The USB functionality of the FSC-BP401 is driver-free and compatible with Windows, Linux, and iOS systems. Upon connection, the USB is recognized as a composite device, comprising a USB audio input/output device and an HID device. Basic functions can be configured through button operations or via the HID device interface. The USB device is identified as FSC-BP401.

The LE Audio feature of the Bluetooth adapter supports both Broadcast Synchronous Stream (BIS) mode and Connected Isochronous Stream (CIS) mode.

BIS is a one-way communication protocol where one or more audio streams are broadcast from a source device to an unlimited number of receivers not directly connected to the source. The device functions as a gateway, receiving audio data from an external USB source and transmitting it to multiple earphones supporting LE Audio, with no specific limit on the number of receivers.

CIS is a two-way communication protocol allowing independently connected audio streams to be transmitted from a source device to one or more receivers. The FSC-BP401 can act as a gateway using the left and right ISO channels to simultaneously transmit audio data, enabling synchronized stereo playback.



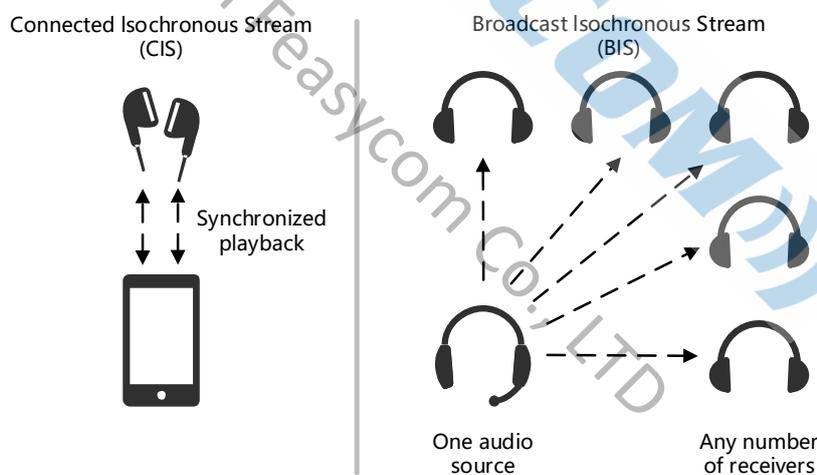
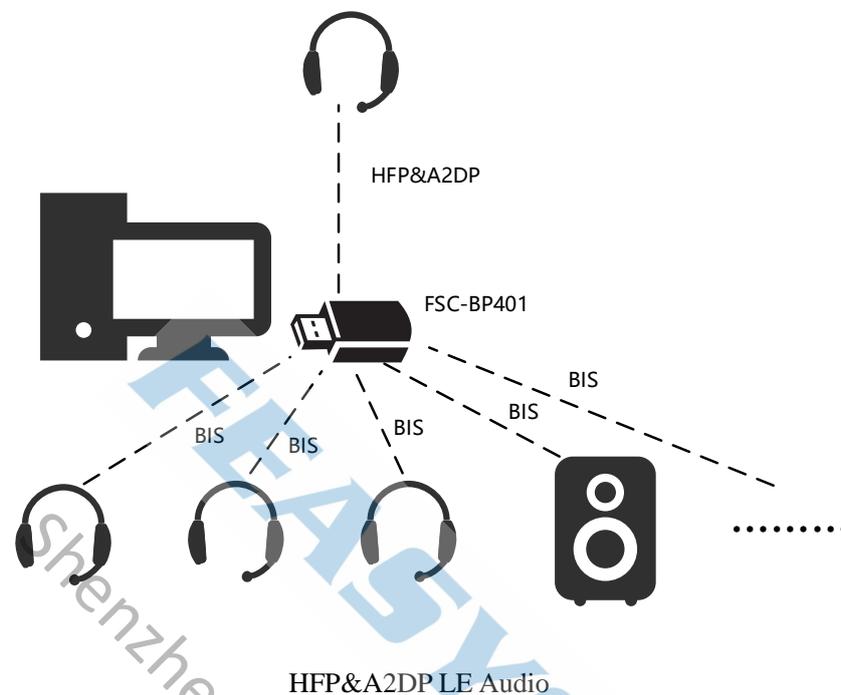
## 2. Features

- Supports Bluetooth 5.4, with backward compatibility for Bluetooth 5.3/5.2/5.1/5.0/4.0/3.0/2.1/2.0.
- Driver-free support for Windows/Linux/iOS systems.
- Supports LE Audio/HFP/A2DP protocols, and more.
- Can be used with Bluetooth speakers, headsets, mobile phones, tablet PCs, and other devices.
- LE Audio operates in Broadcast Synchronous Stream (BIS) mode, supporting multiple LE Audio headphones without a specific limit on the number.
- Transmission distance of up to 70 meters (Under Interference-Free Conditions).
- 35ms minimum latency (CIS mode).

## 3. Parameter Characteristic

Specifications	Description
Chipset	FSC-BT1114QI
Bluetooth Version	Bluetooth 5.4
Working Frequency	2402MHz~2480MHz
Transmission Speed	2 Mbps
Transmission Power	15dBm(Max)
Transmission Distance	Up to 70 meters
Antenna	Built-in antenna
Power Supply	USB
Supply Voltage	5V
Interface	USB2.0 A
Color	Black
Protocol	LE Audio/HFP/ A2DP
System Compatibility	Support Win7/8/10/11
Device Name	FSC-BP401
Operating Temperature	-20~70℃
Storage Temperature	-20~70℃
Indicator light	Red, green and blue
Button	Single button

# 4. Product Connection Diagram



CIS and BIS mode overview

## 5. Dimension

The shell size is 34.5mm in length, 16.8mm in width, and 9mm in height.



## 6. Statement

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## 7. Contact Information

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## 8. Revision History

Version	Data	Changes	Author
V1.0	2025-10-29	Initial Release	Zoe

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