

Bluetooth Adapter

FSC-BP411 Datasheet



1. Overview

The FSC-BP411 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-BP411 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-BP411.

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-BP411 can act as a gateway using the left and right ISO channels to simultaneously transmit audio data, enabling synchronized stereo playback.



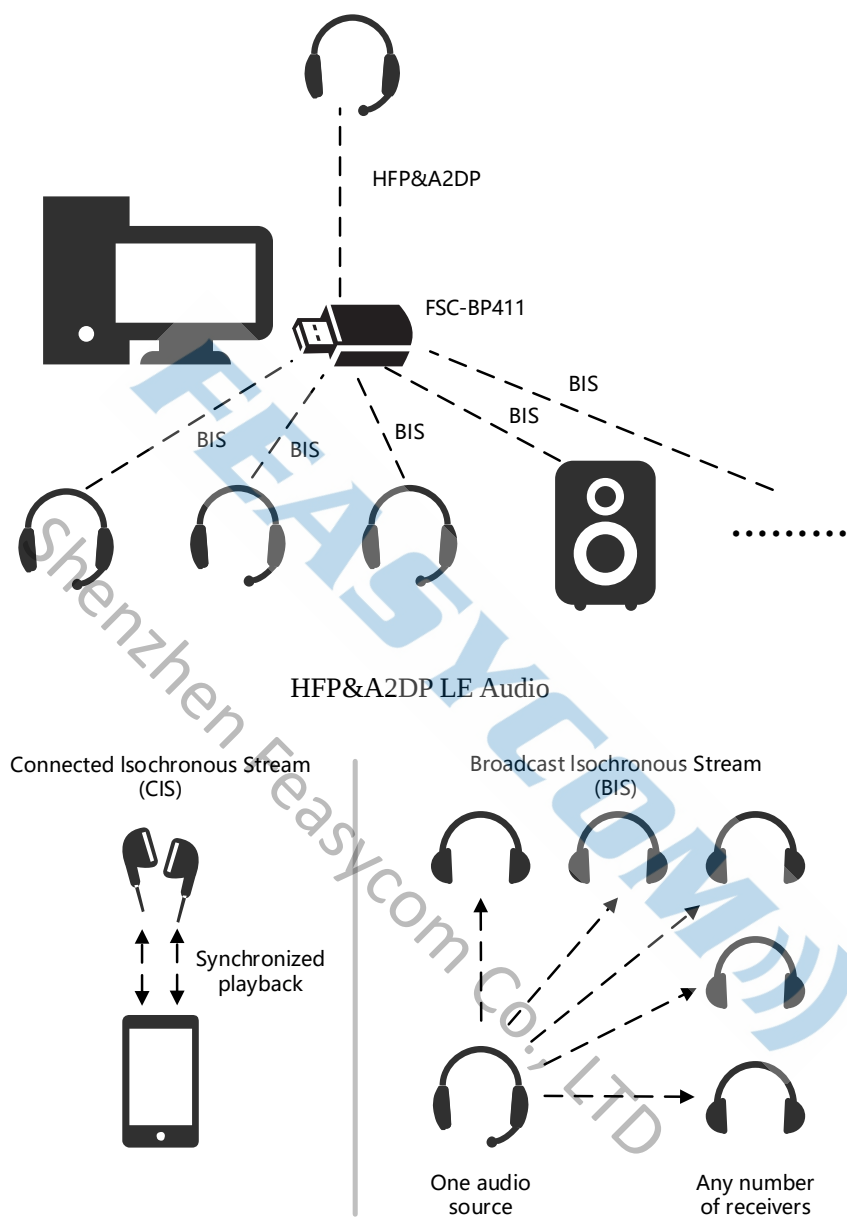
2. Features

- 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-BP411
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 34.4mm in length, 16.7mm in width, and 9mm in height.



6. Statement

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7. Contact Information

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8. Revision History

Version	Date	Changes	Author
V1.0	2026-01-21	Initial Release	Zoe

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