

Bluetooth Adapter

FSC-BP401 Datasheet



1. Overview

The FSC-BP401 is a Bluetooth audio transmitter that supports both classic Bluetooth and LE Audio, compatible with Bluetooth 5.3, 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 a USB virtual serial port. Basic functions can be configured through button presses or via the USB virtual serial port 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.



Picture

2. Features

- Supports Bluetooth 5.3, with backward compatibility for Bluetooth 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 100 meters.
- Ultra-low latency of 20ms.

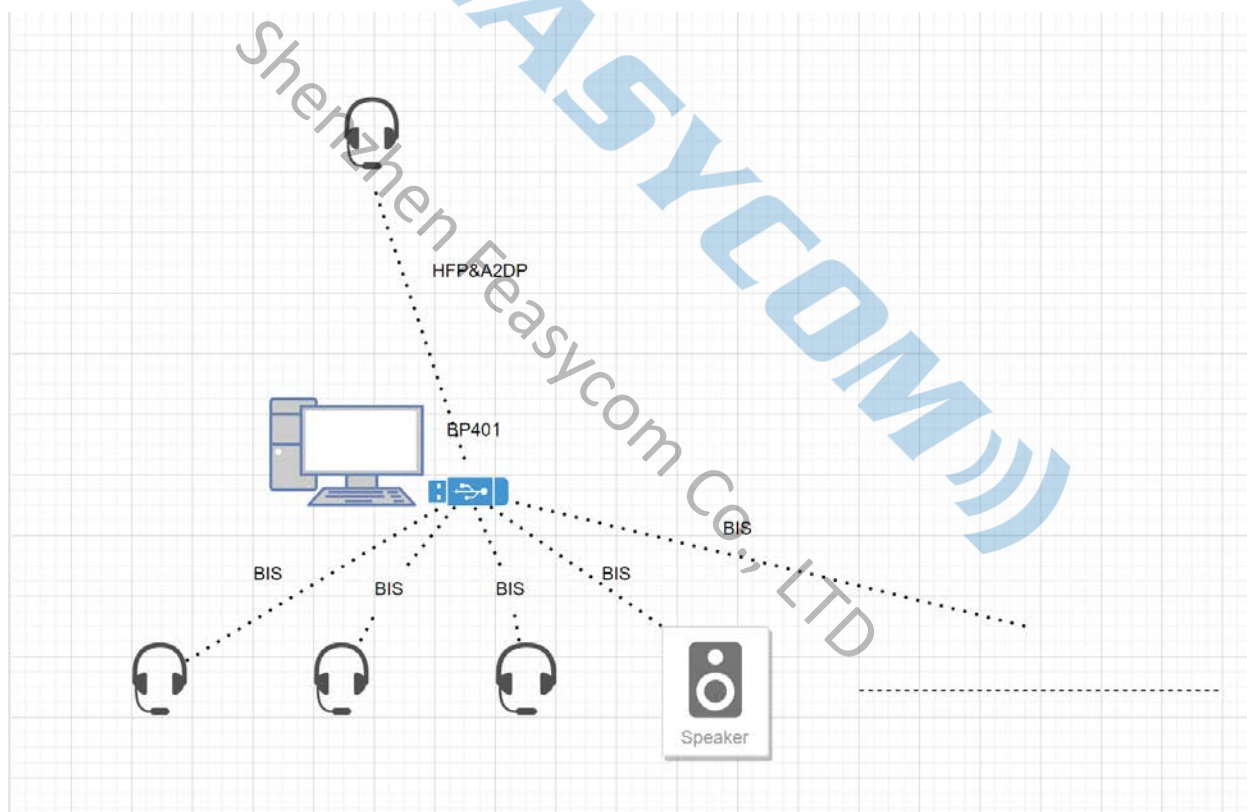
3. Parameter Characteristic

Specifications	Description
Chipset	nRF5340+CSR8811+PA
Bluetooth Version	Bluetooth 5.3
Working Frequency	2.4 GHz
Transmission Speed	2 Mbps
Transmission Power	+18dBm
Transmission Distance	Up to 100 meters
Antenna	Built-in antenna
Power Supply	USB
Supply Voltage	5V
Interface	USB2.0 A
Colour	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

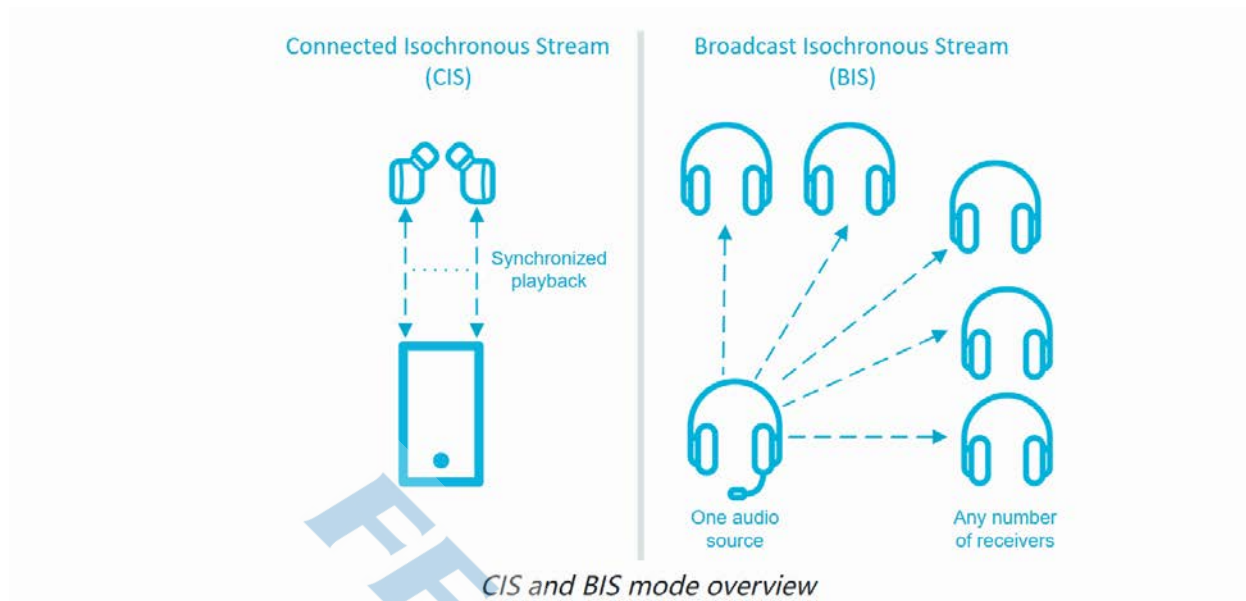
4. Packing List

- FSC-BP401 x1
- Instruction x1
- Warranty card x1

5. Product Connection Diagram

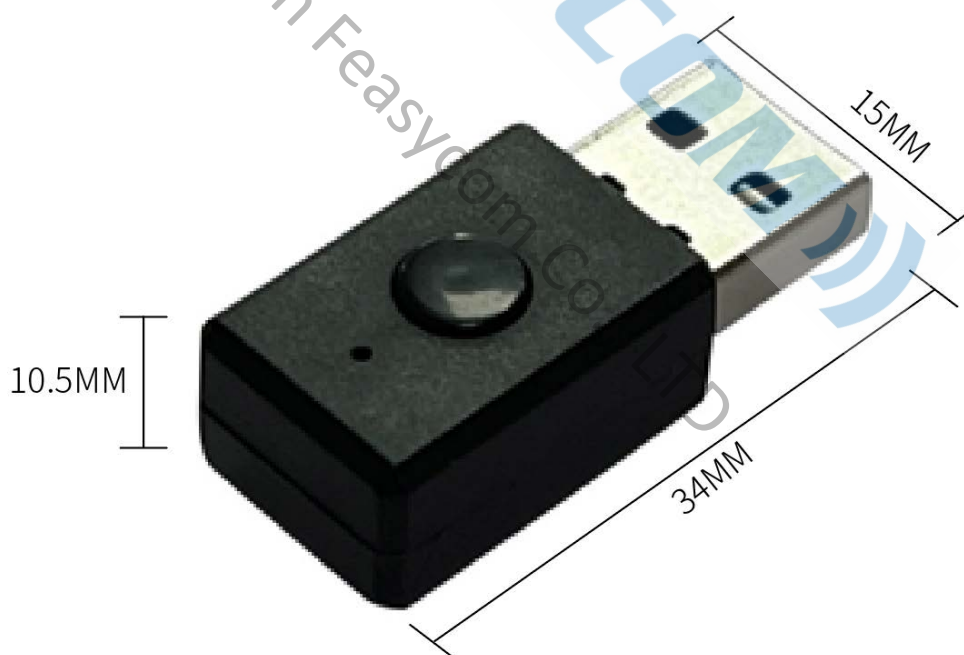


HFP&A2DP LE Audio



6. Dimension

The shell size is 34MM in length, 15MM in width, and 10.5MM in height.



7. Statement

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9. Revision History

Version	Changes	Author
1.0	Initial Release	MO
1.1	Correction of Features	MO