MoerLink™

Bluetooth 5.3 LE / Classic Hybrid audio Transmitter & Receiver USB dongle
User Manual

Model: AAD02
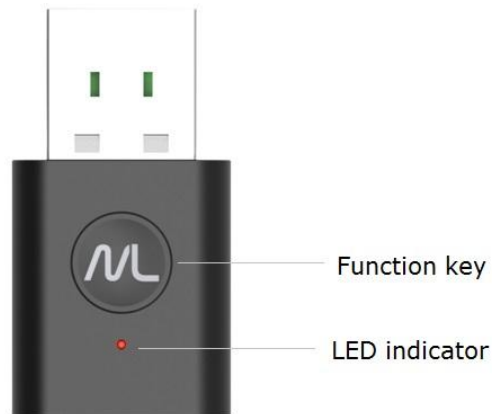
MoerLab®

Introduction

MoerLink™ features with Bluetooth wireless transmit (TX) and receive (RX) switching functions, and supports both Bluetooth low energy(BLE) and classic Bluetooth standards, providing your Bluetooth devices with maximum compatibility.

MoerLink™ leads the industry, providing high-quality, low-energy, low-latency audio wireless broadcast transmission. Its Bluetooth LE Audio technology, adopts the latest LC3 codec chip in Bluetooth 5.3 version, supports broadcast audio, and has passed the latest Bluetooth broadcast audio Auracast™ certification of the Bluetooth SIG (Bluetooth SIG).
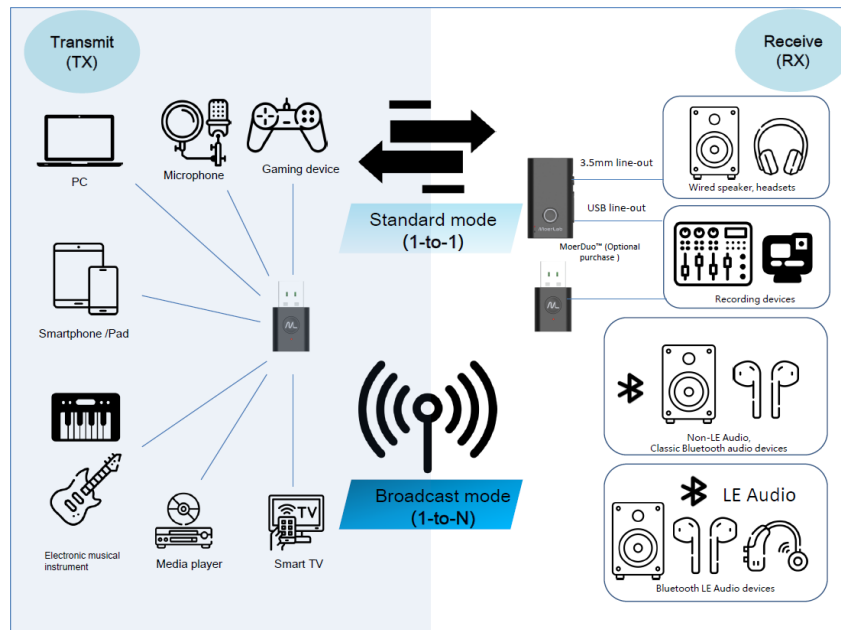
Product overview

Function key

LED indicator

Instructions

TX/transmit mode

① Plug MoerLink™ into a device that supports USB Audio

② Select audio transmission mode between the following 2 modes

- **Standard Bluetooth mode:** Double-click the function key , the red/blue light flashes alternately, and the receiver is paired and connected to enter the pairing mode. After the pairing is completed, the blue light flashes slowly.
- **Broadcast Bluetooth mode:** Triple-click the function key to turn into a purple light flashing slowly.

RX/record mode

① Plug MoerLink™ into a recording device that supports USB Audio.

② Switch to RX/Receive mode: Press and hold the function key for 5 seconds, the LED indicator turns off and then turns to red light flashing to switch to receive/RX mode. (MoerLink™ will default to TX/transmit mode every time when it is re-plugged into the system)

③ You can choose the following two audio transmission modes for recording

- **Standard Bluetooth mode:** Double-click the function key, the blue light flashes quickly and the transmitter is paired and connected, and the blue LED light is always on when the connection is successful.
- **Broadcast Bluetooth mode (recommended):** Triple-click the function key to turn on and search the transmitter (purple light flashes quickly), and the LED purple light stays on after connecting.

Introduction to Bluetooth modes

1. **Classic Audio (1-to-1)**

   MoerLink™ is backward compatible with non-LE Audio Bluetooth receivers. When the receiver is not a LE Audio device, it will connect using the traditional Bluetooth mode pairing method.

2. **LE Audio (1-to-1)**

   If the receiver is a Bluetooth device that supports LE Audio (including Bluetooth receivers, Bluetooth headsets, Bluetooth speakers, etc.), it will automatically use lossless/high-resolution decoding technologies to play music.

3. **Broadcast audio (Auracast™) (1-to-N).**

   Broadcast mode is only compatible with LE Audio devices, and there is no limit on the number of receiver-end devices. No pairing is required in broadcast mode, as long as MoerLink™ broadcast mode is enabled, the receiver-end devices can search and connect by themselves (operating range up to 30~50 meters).

Instructions of LED indicator (I)

Mode	Function	Status	LED indicator
Transmit (TX)	Standard Bluetooth	Pairing	Red/blue lights flash alternately
		Pairing completed/ Playing	Blue light flashes slowly
		Disconnect	Red light flashes slowly
		Pause	Red light stays on
	Broadcast Bluetooth	Broadcasting	Purple light flashes
		Pause	Red light stays on
Recording(RX)	Standard Bluetooth	Pairing	Blue light flashes quickly
		Pairing completed/ Playing	Blue light stays on
	Broadcast Bluetooth	Searching	Purple light flashes quickly
		Successfully connected/receiving	Purple light stays on

Instructions of LED indicator (II)

Status	Operation	LED indicator
Turn on/ off	Press and hold for 3 seconds	
Mute	One-click	Red light flashes
Pairing mode (A2DP/CIS)	Double-click	Red/blue lights flash alternately
Broadcasting mode (BIS)	Triple-click	Purple light flashes

Specification
Model: AAD02
Bluetooth version: BT 5.2 LE Audio BIS, CIS
Bluetooth protocol: A2DP/AVDTP/AVCTP
Support audio decoding formats: SBC / AAC / LC3 / MACH
Operation Mode: Pairing Mode (A2DP/CIS) & Broadcast Mode (BIS)
Audio transmission protocol: USB UAC 1.0, UAC 2.0
Transmit power <= 10dbm
Latency < 60ms
Weight: 2.5 g
Transmission distance 50 m (open space)
Dimensions: 3 2 mm X 1 8 mm X 6 mm

Extensive compatibility
Compatible with Android, iOS , Windows, Mac, Linux operating software, and it can be used in PC, MAC, mobile phone, Nintendo Switch, Sony PS5, Smart TV (with USB audio function) and other devices.

Package Contents
MoerLink™ USB dongle
TYPE-C adapter x 1
Lighting adapter x 1
User Manual x 1

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

* RF warning for Portable device:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.