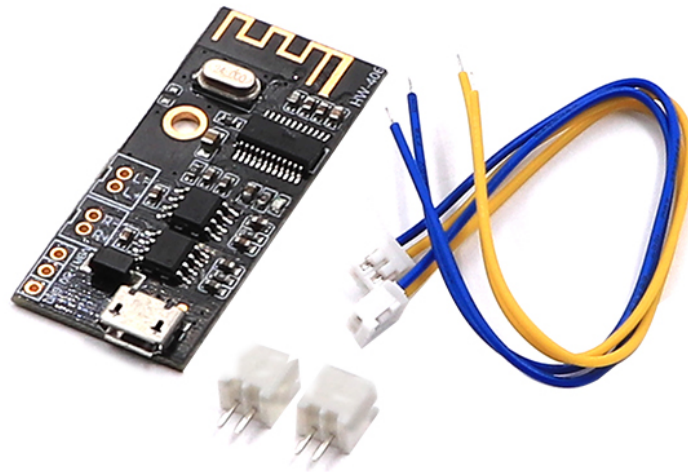


Bluetooth 4.2 Audio Receiver Module

Model: MH-M38



Description:

This product is a low-power Bluetooth design solution, supports the latest Bluetooth 4.2 transmission, two-channel stereo lossless playback, and can be connected to Bluetooth to quickly realize Bluetooth wireless transmission, which is very convenient. In an open environment, the Bluetooth connection distance can be up to 20 meters.

Widely used in a variety of Bluetooth audio reception, a variety of audio DIY modification.

Function Description:

1. Bluetooth 4.2 version, supports Bluetooth automatic connection technology, supports WAV / WMA / FLAC / APE / MP3 lossless decoding, stereo dual channel output.
2. After the module is powered on, the mobile phone searches for the Bluetooth name MH-M38, and can play music after connecting Bluetooth.
3. Module blue indicator light:

When the Bluetooth is not connected, the indicator light flashes quickly;

When the Bluetooth connection is on, the indicator light is always on;

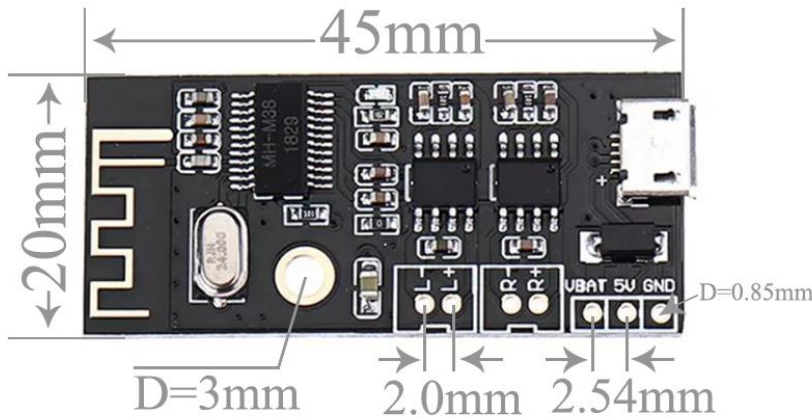
When the Bluetooth is playing, the indicator light flashes slowly.

Specifications:

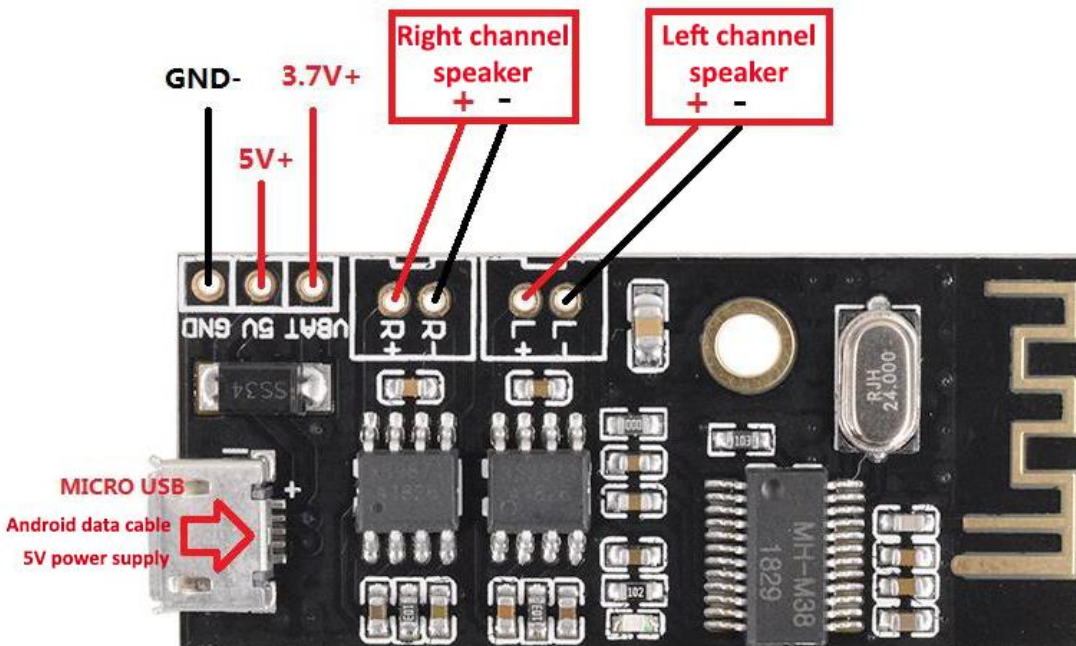
- MICRO power supply: Yes
- Audio headphone jack: No
- Built-in amplifier: Yes (5W + 5W)
- Lithium battery powered: Yes
- Support USB sound card, free drive: Yes
- Music memory/adjustment: No
- MUTE interface: No
- Button extension: No
- Bluetooth version: V4.2

- Support Bluetooth protocol: HFPV1.7, A2DPV1.2, AVRCPV1.5, AVCTPV1.2, AVDTPV1.2
- Support audio format: Support WAV/WMA/FLAC/APE/MP3 lossless decoding, stereo two-channel output
- Operating voltage: 5V / 3.7V-4.2V
- Stand-by current: 5.5MA
- Working current: 20MA
- Transmission distance: 20 meters (empty or disturbing environment)
- Working temperature: -40°C ~ +80°C
- Sensitivity: -87dbm

Dimensions Diagram:



Connection:



Numbering	Pin	Description
1	5V	Power positive 5V
2	GND	Negative power supply
3	VBAT	Lithium battery positive 3.7-4.2V
4	L+/L-	Left channel output (direct speaker)
5	R+/R-	Right channel output (direct speaker)

1. Power supply: You can directly use the MICRO USB Android cable 5V for direct power supply, or you can also connect 5V power supply or 3.7V lithium battery (as shown in the figure). Note that the 5V and 3.7V power supply interfaces are different. 5V is connected to 5V and GND, and the 3.7V lithium battery is connected to VBAT and GND.

The maximum operating current is 5V2A. It is recommended to use a regulated power supply of 5V2A for better sound quality.

2. Support USB sound card, free drive (plug and play). Connect the module to the computer with the USB cable, and the computer can play music through the module amplifier output.
3. Audio output: output left and right channel stereo audio signals, can be connected to two 2-8 ohm, 3-5W speakers.
4. The product has built-in 5W amplifier circuit, must not be connected to the amplifier and then further use! The outputs of the two amplifiers cannot be connected in parallel or the negative poles are connected together, otherwise the power amplifier chip is damaged.

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