

## RESPEAKER 4-MIC LINEAR ARRAY KIT FOR RASPBERRY PI

SKU 107990056

### Description

Seeed's ReSpeaker 4-Mics Linear Array Kit for Raspberry Pi is an extension board, aka HAT designed for Raspberry Pi. It's a linear microphone array kit, comes with four microphones and designed for AI and voice applications. That means you can build a more powerful and flexible voice product with Raspberry Pi which can integrate Amazon Alexa Voice Service, Google Assistant, and so on.

ReSpeaker 4-Mic Linear Array Kit for Raspberry Pi consists of two boards, one is voice accessory HAT, another is four microphones linear array.

ReSpeaker 4-Mic Linear Array Kit for Raspberry Pi support 8 input & 8 output channels in Raspbian system. The first 6 input channel for microphone recording(only first 4 input channels are valid capture data), rest of 2 input channel are echo channel of playback. The first 2 output channel for playing, rest of 6 output channel are dummy.

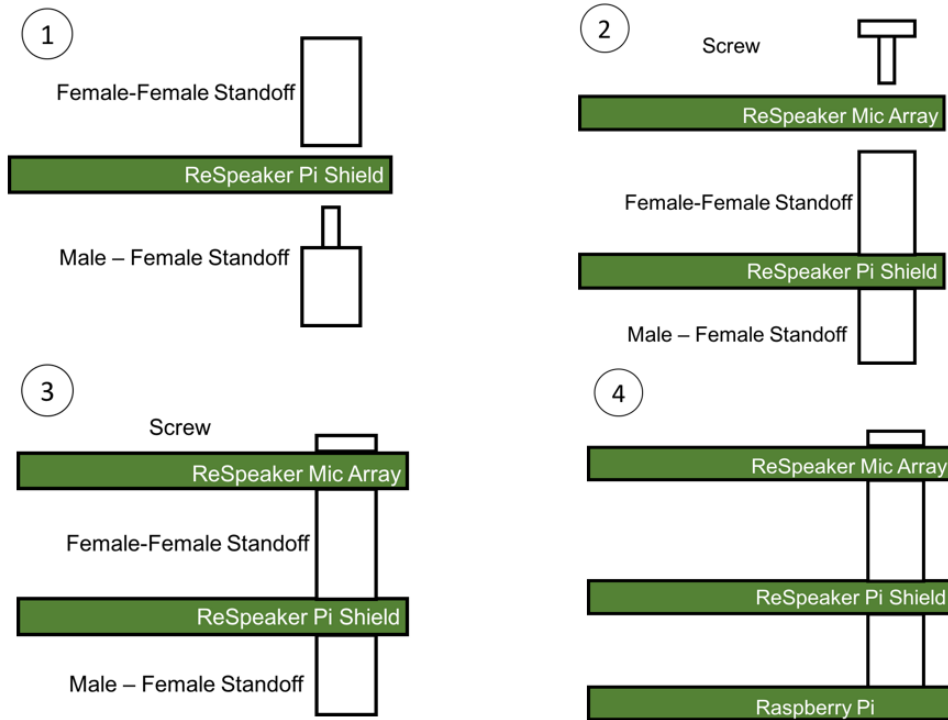
## Features

- 2 ADC chips and 1 DAC chip
- 8 input and 8 output channels
- Four microphones array
- Grove support
- Compatible with Raspberry Pi 40-pin headers
- Headset and speaker voice output

## Application Ideas

- Smart speaker
- Intelligent voice assistant systems
- Voice recorders
- Voice conferencing system
- Meeting communicating equipment
- Voice interacting robot
- Car voice assistant
- Other scenarios need voice command

## Assembly drawing



## Technical Details

Weight	G.W 132g
Battery	Exclude
AD/DA Chips	2 x X-Power AC108 ADC; 1 x X-Power AC101 DAC
Voice Output	3.5mm headset audio jack / Speaker jack (JST 2.0)
Microphones	SPU0414HR5HSB
Sensitivity	-22 dBFS (Omnidirectional)
SNR	59 dB

### *Part List*

1 x ReSpeaker Voice Accessory HAT	1
1 x ReSpeaker 4-Mic Linear Array for Voice Accessory HAT	1
1 x 20cm Ribbon Cable	1

- [\[PDF\] AC101 Datasheet](#)
- [\[PDF\] AC108 Datasheet](#)

