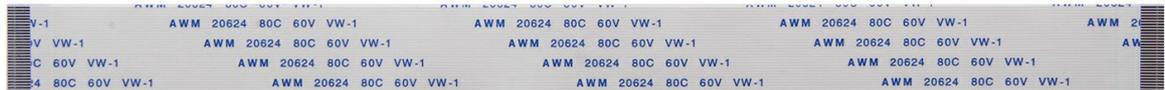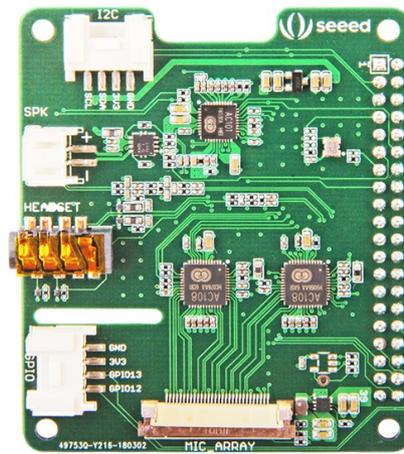## ReSpeaker 4-Mic Linear Array Kit for Raspberry Pi
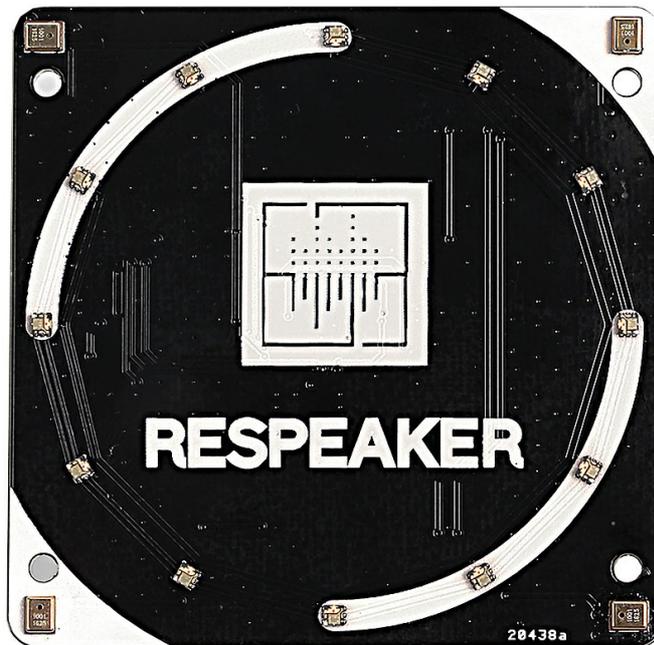
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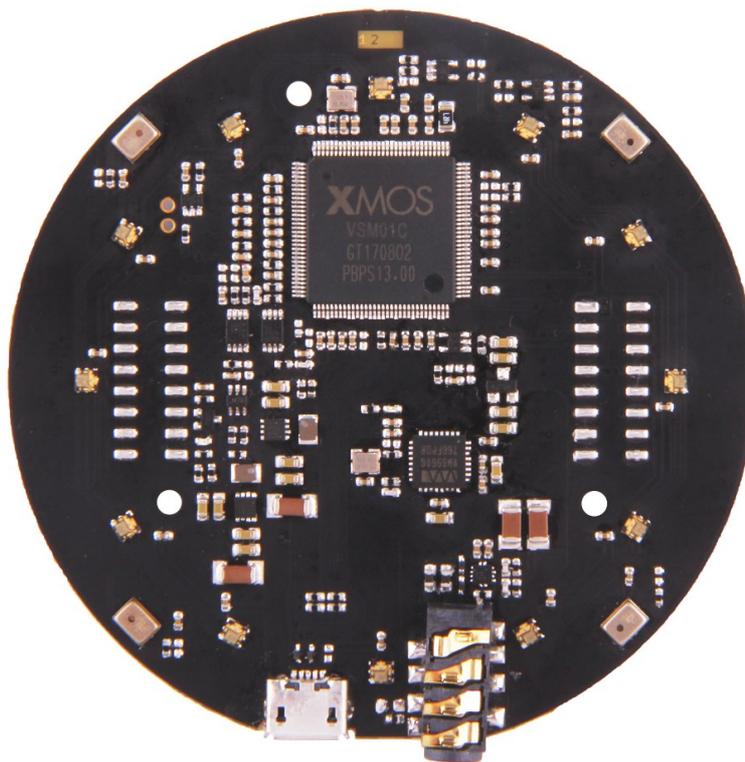

ReSpeaker 2-Mics Pi HAT

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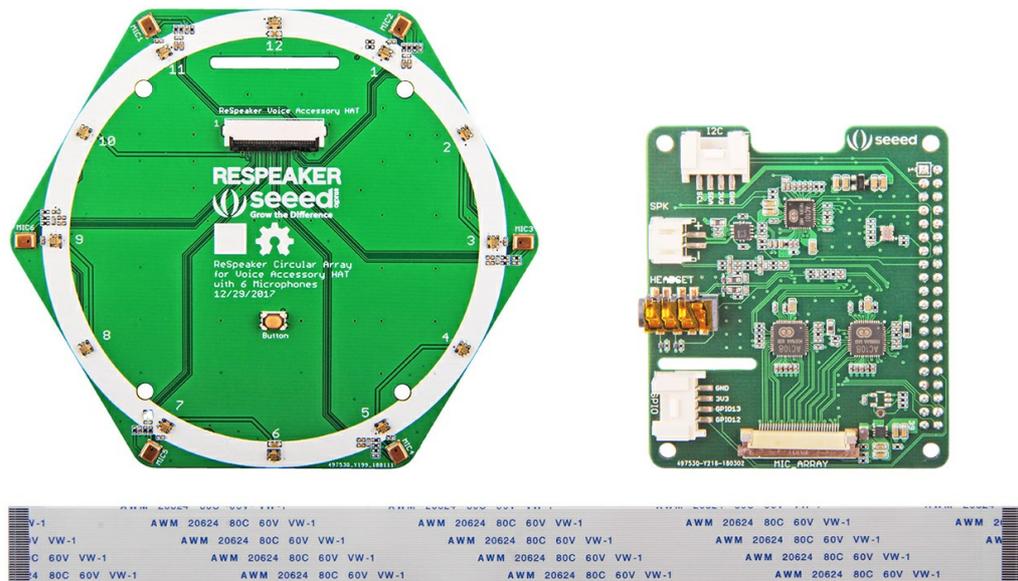ReSpeaker 4-Mic Array for Raspberry Pi

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ReSpeaker 6-Mic Circular Array Kit for Raspberry Pi

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Description

Seeed's ReSpeaker 4-MicsLinear 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

Unboxing Vedio

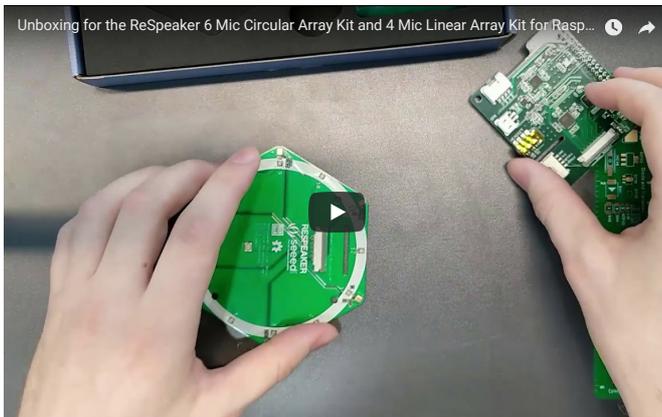
Unboxing for the ReSpeaker 6 Mic Circular Array Kit and 4 Mic Linear Array Kit for Rasp...
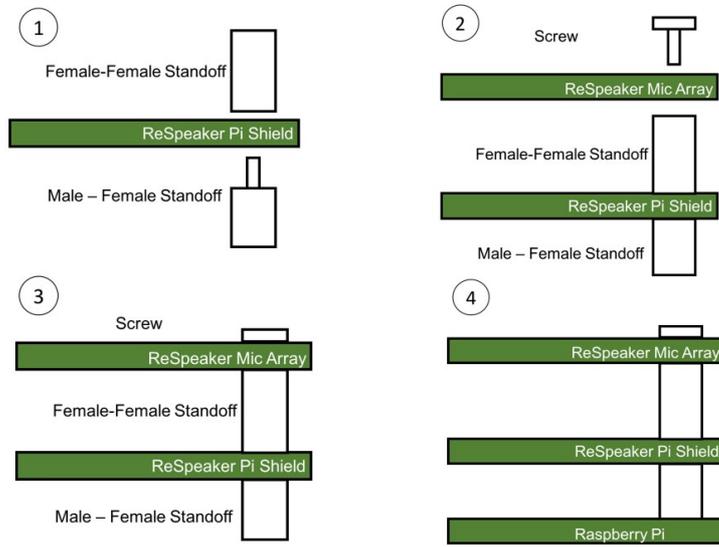
Technical Details

Dimensions 0mm x 0mm x 0mm
Weight   G.W 132g
Battery   Exclude
AD/DA Chips 2 x X-Power AC108 ADC; 1 x X-Power AC101 DAC
Voice Output3.5mm headset audio jack / Speaker jack (JST 2.0)
MicrophonesSPU0414HR5HSB
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 HAT1
1 x 20cm Ribbon Cable   1

ECCN/HTS

ECCN   3A611.y.6
HSCODE8473309000

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[Wiki] ReSpeaker 4-Mic Linear Array Kit for Raspberry Pi

Click here to see the wiki of the ReSpeaker 4-Mic Linear Array Kit for Raspberry Pi

Reviews

nice

July 16,2018 by Anonymous User

Was this review helpful ?

0

Questions and Answers

Have a question about this? Ask people who

0   Does this have noise suppression, echo cancellation, AGC, De-reverberation algorithms in it? What would be the far field support tested on this one (in metres)?

ashwani_2512 on Jul 10,2018   Reply   upvote (0)

Hi, there~it just have noise suppression,Regards!

Seeed Techsupport Team on Jul 11,2018 17:38 PM   Reply   upvote (0)

@Seeed Techsupport Team 1. Far field tested distance (in metres). And what about AGC and EC?

ashwani_2512 on Jul 13,2018 18:13 PM   Reply   upvote (0)

0   Does this give better recognition accuracy than the ReSpeaker 2-Mics Pi HAT? Any other major benefits over the 2-Mic Pi HAT?

a-morpheus on Jun 19,2018   Reply   upvote (0)

yes, it infact better than 2-Mic Pi HAT,you can read their Technical Details to find the benefits over 2Mic Pi HAT. hope that will be helpful! thanks!

Seeed Techsupport Team on Jun 21,2018 16:58 PM   Reply   upvote (0)

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