ReSpeaker 2-Mics Pi HAT

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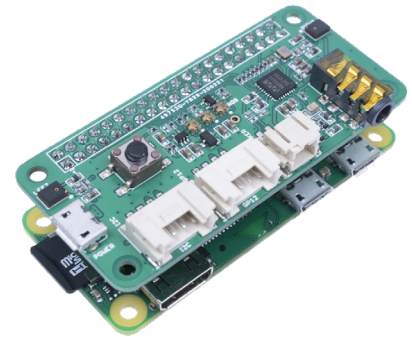
Product Overview
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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

Seeed Studio ReSpeaker 2-Mics Pi HAT is an expansion board that contains a dual-microphone for Raspberry Pi. This board is designed for Artificial Intelligence (AI) and voice applications, including Amazon Alexa voice service and google assistant, assisting the designer to build a more powerful and flexible voice product and AI.
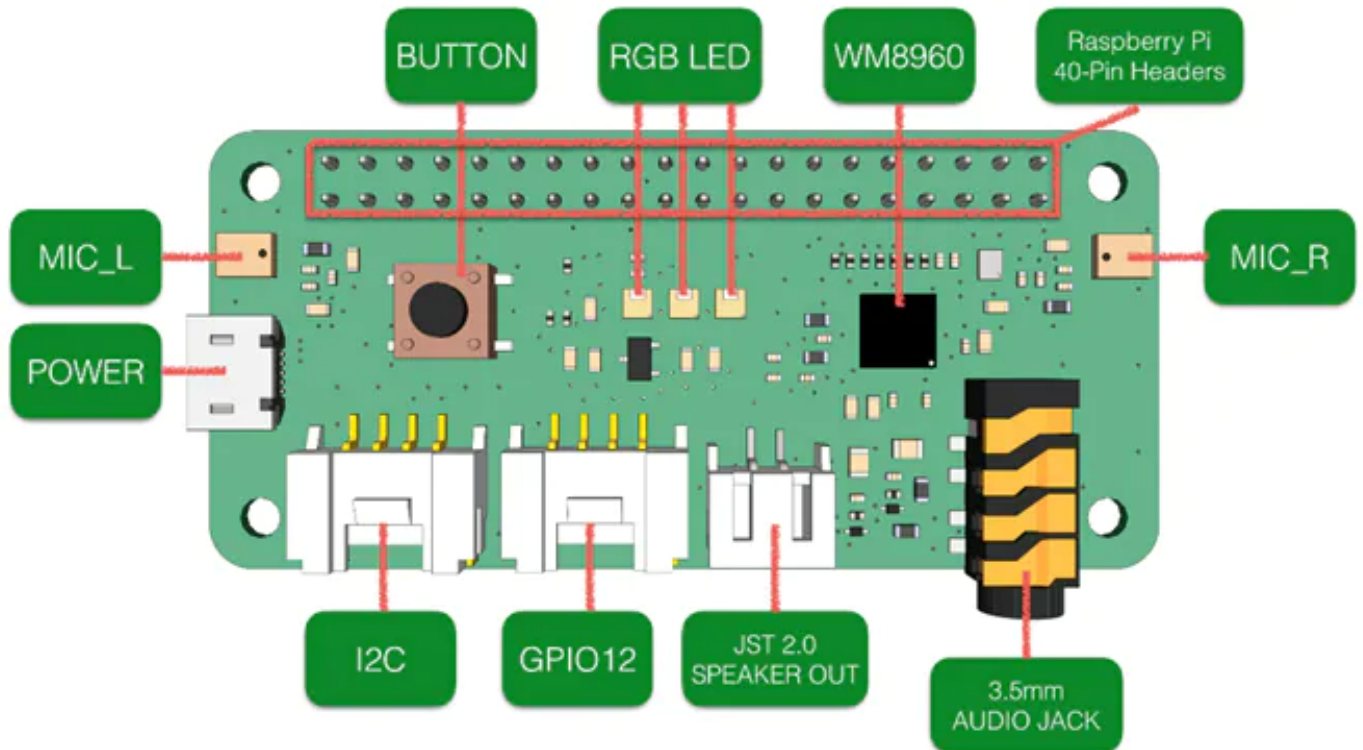
The ReSpeaker 2-Mics Pi HAT is designed based on the low-power stereo codec with 1W stereo class D speaker drivers developed for digital audio applications and cirrus logic WM8960. Other hardware includes 3 APA102 RGB LEDs, 1 User Button, 2 onboard grove interfaces for Expansion, and 2 microphones on both sides of the board for collecting sounds. The audio output is available through the 3.5mm audio jack or JST 2.0 speaker out.

Features

- Raspberry Pi compatible (Support Raspberry Pi Zero and Zero W, Raspberry Pi B+, Raspberry Pi 2B, and Raspberry Pi 3B, Raspberry Pi 3B+ and Raspberry Pi 4)
- Dual microphones
- 2 Grove interfaces:
  - Supports GPIO
  - Supports I²C
- 1 user button
- Two types of audio output socket:
  - 3.5mm audio jack (40mW output)
  - JST2.0 speaker out (providing 1W into 8Ω loads)
- Analog discovery 2x15 ribbon cable
- Jumbo-sized project box
- Stereo codec with class d speaker driver
- Far-field support (up to 3 meters)

Board Overview

Mouser Part Number

To learn more, visit https://www.mouser.com/new/seeed-studio/seeed-studio-respeaker-pi-hat/