

INDUSTRIAL PRODUCT DATASHEET

reSpeaker Core v2.0

The reSpeaker Core v2.0 combines a 6-microphone array, 8-channel ADC with hardware loopback, and a full speech algorithm SDK on a Debian Linux platform for voice-enabled applications.

SKU

102990883

UPDATED

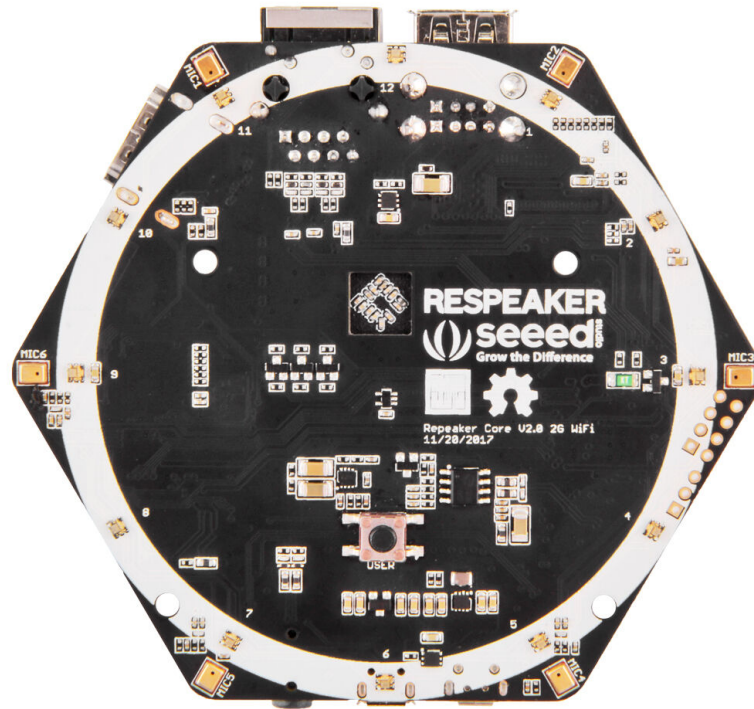
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PRICE

\$99.00(Excl. VAT)



Overview

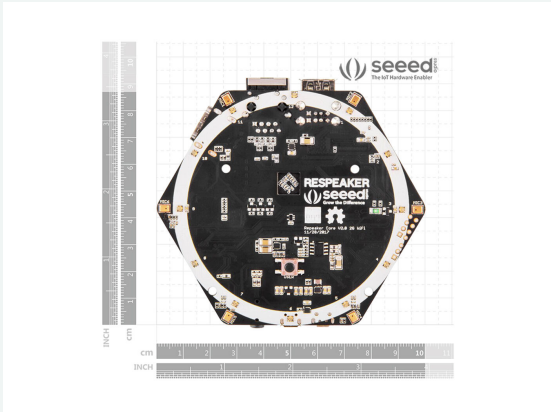
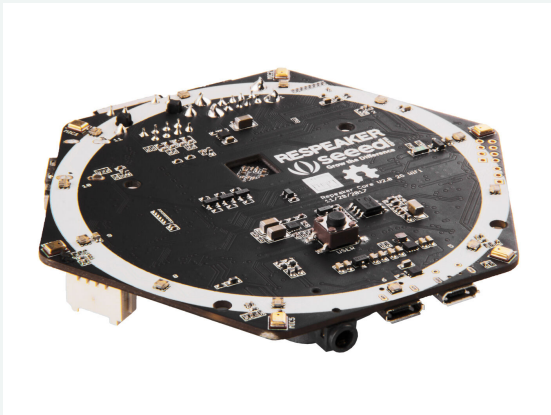
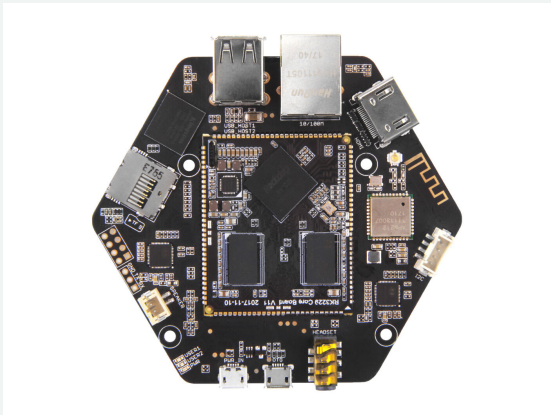


The reSpeaker Core v2.0 is an all-in-one speech processing solution featuring a Debian-based Linux system and high-performance SoC. It provides a comprehensive SDK with C++ and Python wrappers for advanced audio algorithms including keyword spotting, beamforming, direction of arrival, noise suppression, acoustic echo cancellation, and automatic gain control.

Key Features

- Debian-Based Linux System
- SDK for Speech Algorithms with Full Documents
- C++ SDK and Python Wrapper
- Speech Algorithms and Features
 - Keyword Spotting (Wake-Up)
 - BF (Beamforming)
 - DoA (Direction of Arrival)
 - NS (Noise Suppression)
 - AEC (Acoustic Echo Cancellation) and AGC (Automatic Gain Control)
- All-in-One Solution with High-Performance SoC
- 8 Channel ADC for 6 Microphone Array and 2 Loopbacks (Hardware Loopback)

Product Gallery



Part List

ReSpeaker Core v2.0	1
Micro USB Cable	1

Compliance & Logistics



HSCODE	8518900090
USHSCODE	8518902000
UPC	841454120285
EUHSCODE	8517180000
COO	CHINA

FCC Requirement

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

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.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: 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. If not installed and used in accordance with the instructions, it 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.

Resource Links

- <https://www.seeedstudio.com/ReSpeaker-Core-v2-0.html>
- Audio front-end processing algorithms including AEC, Beamforming, NS and KWS
- Google Assistant Demo
- Alexa Voice Service C++ SDK for ReSpeaker Core v2.0
- Alexa Voice Service & DuerOS Python SDK
- Microsoft Speech Translation Demo
- RGB LEDs library
- Download PDF of This Wiki
- Rockchip RK3229 Datasheet V1.1
- Dimensions for Board
- 3d Models For ReSpeaker Core v2.0
- ReSpeaker Core v2.0 Case
- ReSpeaker Core v2.0 Stand
- ReSpeaker Core v2.0 Stand Assembly drawing
- Acoustic & Electrical Specification of ReSpeaker Core v2.0
- Mraa Python documents page
- Intel Mraa SDK
- Snips SDK
- ReSpeaker Core v2 board 3D CAD.stp

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