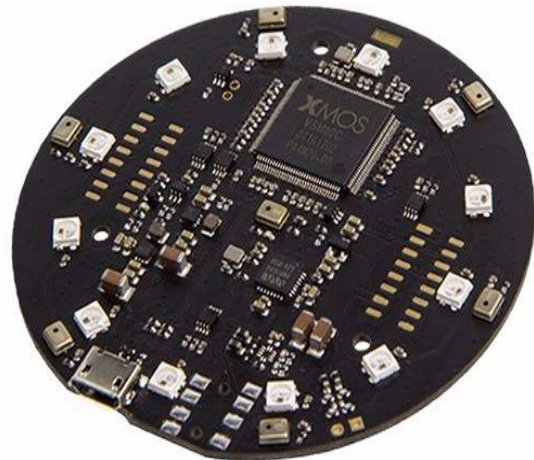


ReSpeaker Mic Array - Far-field w/ 7 PDM Microp

SKU 107010001

Far-field Voice Capture
Acoustic Source Localization
Beamforming
Noise Suppression
De-reverberation
Acoustic Echo Cancellation



Description



MEET RESPEAKER MIC ARRAY


The ReSpeaker Mic Array can be stacked (connected) right onto the top of ReSpeaker Core to significantly improve the voice interaction experience. It is developed based on the XVSM-2000 Smart Microphone from XMOS. The board integrates 7 PDM microphones to help enhance ReSpeaker's acoustic DSP performance to a much higher level. With the Mic Array attached onto the top of the ReSpeaker Core, ReSpeaker is now able to:



HEAR YOU FROM FAR AWAY



FOCUS ON YOUR VOICE




Focus On Your Voice

- Acoustic Source Localization
- Beamforming
- Noise Suppression



IMPROVE VOICE QUALITY



Improve Voice Quality

- De-reverberation
- Acoustic Echo Cancellation



KEY FEATURES

Far-field Voice Capture

Acoustic Source Localization

Beamforming

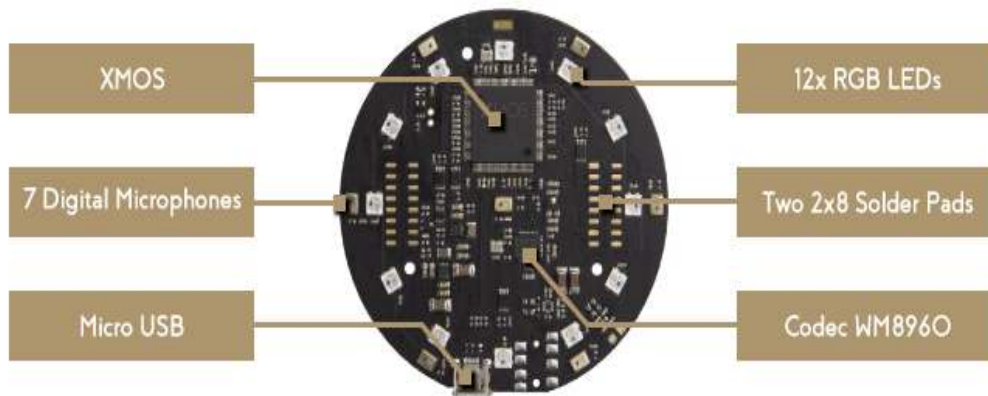
Noise Suppression

De-reverberation

Acoustic Echo Cancellation



Mic Array



XMOS microcontroller with 16 cores inside

7 high performance digital microphones

Supports Far-field Voice Capture (up to 10m)

Supports Beamforming, Acoustic Source Localization, Noise Suppression, De-reverberation and Acoustic Echo Cancellation

12 programmable RGB LED indicators

Microphones: ST MP34DT01-M

Sensitivity: -26 dBFS (Omnidirectional)

Acoustic overload point: 120 dB SPL

SNR: 61 dB

Power Supply: 5V DC from Micro USB or expansion header

Dimensions: 70mm (Diameter)

Weight: 15.25g



PACKING LIST

1x ReSpeaker Far-filed Mic Array