

101991441 | reSpeaker XMOS XVF3800 - AI-powered 4-Mic Array for Clear Voice Even in Noise

SKU: 101991441

Product Overview

A professional circular 4-microphone array based on XMOS XVF3800 enables clear voice capture in noisy environments. It features dual modes (I2S/USB), 360° far-field voice pickup up to 5 meters, and on-board AI acoustic algorithms including AEC, AGC, DoA, VAD, dereverberation, beamforming, and noise suppression.

Features

Feature 1: XMOS XVF3800 Upgrade With Advanced AI Audio Processing

1. AEC (Acoustic Echo Cancellation)
2. AGC (Automatic Gain Control)
3. NS (Noise Suppression)

Feature 2: Powerful Voice Capture

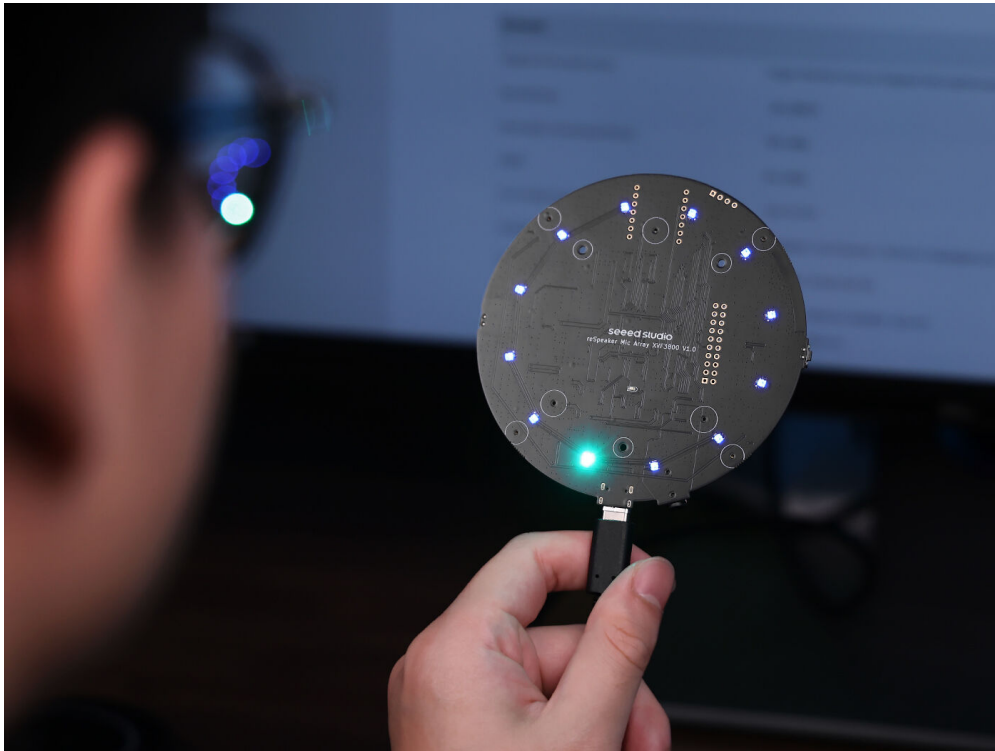
1. Far-field Voice Capture Up to 5m
(Watch the pickup range test from 12:20)
2. Circular 4-Microphone Array Supports 360° DoA

Feature 3: Developer-Friendly

1. Plug-and-Play Simplicity
2. I2S Interface for MCU Integration

Direct I2S support allows seamless integration with MCU platforms like XIAO Series and Arduino, enabling embedded voice applications with minimal hardware overhead.

Product Image



Product image

Specifications

Core Chip: XMOS XVF3800

Digital Microphones: High-performance digital microphones 4

Sensitivity: -26 dBFS

Acoustic Overload Point: 120 dBL

SNR: 64 dBA

Power Supply: USB 5V, external 5V

Dimensions: 108mm x 108mm x 18mm

Audio Output: Speaker Connector / 3.5mm Headphone jack

Maximum Sampling Rate: 16Khz

Speaker: Supports 5W amplifier speakers.

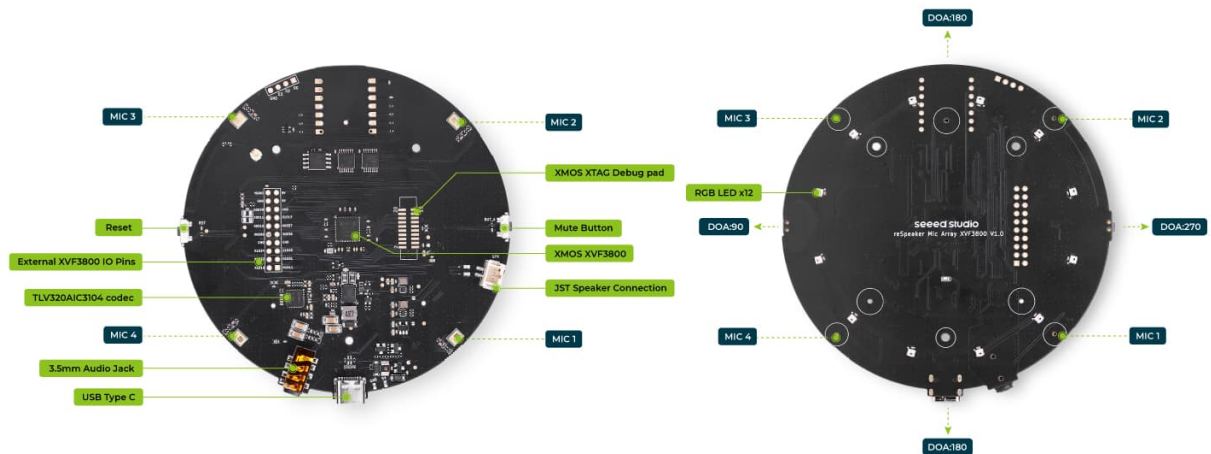
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Hardware Overview



Hardware overview image



Hardware overview image

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