

114993700 | reSpeaker XMOS XVF3800 with XIAO ESP32S3 - AI-powered 4-Mic Array for Clear Voice Even in Noise

SKU: 114993700

Product Overview

A professional circular 4-mic array based on the XMOS XVF3800. Equipped with SeeedStudio XIAO ESP32S3, it enables clear and precise target 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

MCU: XIAO ESP32S3 (Pre-soldered)

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: 102mm x 102mm x 10mm

Audio Output: Speaker Connector / 3.5mm Headphone jack

Maximum Sampling Rate: 16Khz

Speaker: Supports 5W amplifier speakers.

Wireless: WiFi 802.11 b/g/n, Bluetooth 5.0 LE

ESP32S3 Features: Dual-core 240MHz, 8MB Flash, 8MB PSRAM

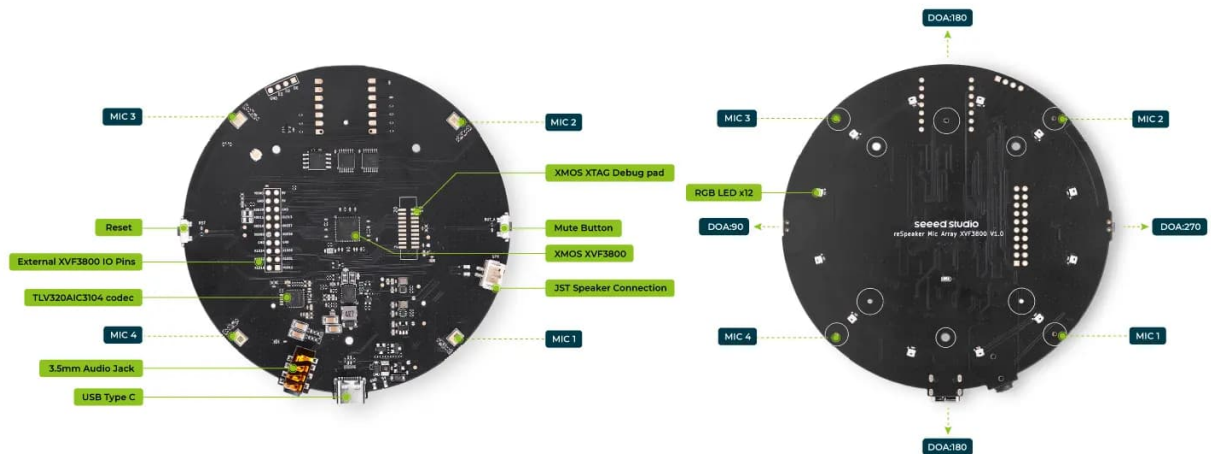
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Hardware Overview



Hardware overview image



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