

# 114993702 | reSpeaker XMOS XVF3800 with XIAO ESP32S3 (Case Version)- AI-powered 4-Mic Array for Clear Voice Even in Noise

SKU: 114993702

## Product Overview

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An enclosed circular 4-mic array with pre-soldered ESP32S3, based on the XMOS XVF3800. It enables clear voice capture in workplaces with 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

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### 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

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Product image

## Specifications

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**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:** 102mm x 102mm x 10mm

**Audio Output:** Speaker Connector / 3.5mm Headphone jack

**Maximum Sampling Rate:** 16Khz

**Speaker:** Supports 5W amplifier speakers.

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