



# lib\_voice: Voice processing library (README)

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**vendor**  
Xmos

**version**  
1.0.1

**scope**  
General Use

**description**  
Voice processing library

**category**  
Voice

**keywords**  
DSP

**devices**  
xcv3000

## 1 Summary

**lib\_voice** is a collection of DSP components used to build a front-end voice processing pipeline.

## 2 Features

- ▶ Acoustic Echo Cancellation
- ▶ Delay Estimator
- ▶ Interference Cancellation
- ▶ Voice to Noise Ratio Estimator
- ▶ Noise Suppressor
- ▶ Automatic Gain Controller



### 3 Known issues

- ▶ None

### 4 Development repo

- ▶ [lib\\_voice](https://www.github.com/xmos/lib_voice) ([https://www.github.com/xmos/lib\\_voice](https://www.github.com/xmos/lib_voice))

### 5 Required tools

- ▶ XMOS XTC Tools: 15.3.1
- ▶ Python: 3.11

### 6 Required libraries (dependencies)

- ▶ [lib\\_xcore\\_math](https://www.xmos.com/libraries/lib_xcore_math) ([https://www.xmos.com/libraries/lib\\_xcore\\_math](https://www.xmos.com/libraries/lib_xcore_math))
- ▶ [xmos-ai-tools](https://pypi.org/project/xmos-ai-tools/) (<https://pypi.org/project/xmos-ai-tools/>)

### 7 Related application notes

- ▶ None

### 8 Support

This package is supported by XMOS Ltd. Issues can be raised against the software at [www.xmos.com/support](http://www.xmos.com/support) or using GitHub [issues](#).



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