xCORE VocalFusion 4-Mic Kit for Amazon AVS
Hardware Setup Guide

XMOS®

Welcome to the **xCORE VocalFusion 4-Mic Kit for Amazon AVS** using the XMOS XVF3000 Voice Processor.

XVF3000 Voice Processor

Linear microphone array

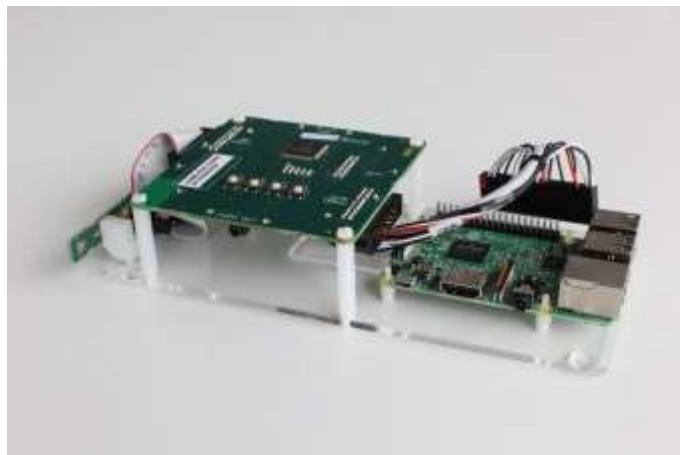*xTAG debug adaptor (not used)*

To complete this hardware setup guide you will also need:

- Raspberry Pi 3 and micro SD card (at least 16GB)
- USB power supply (minimum 2A)
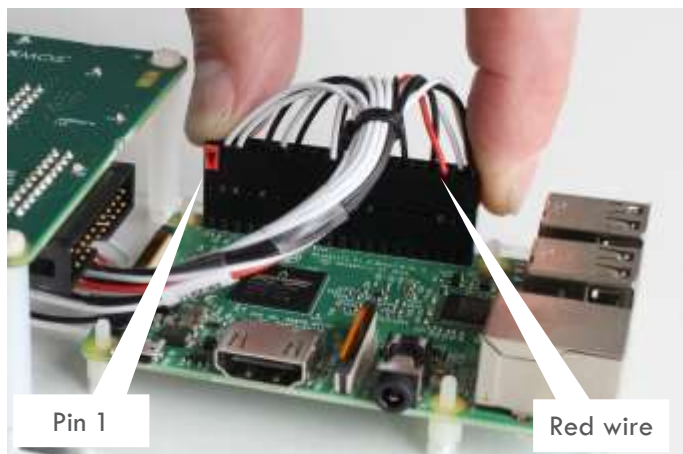- Mono powered speaker (e.g. Logitech Z50)

1

Attach the Raspberry Pi to the standoffs on the kit

Secure the Pi with the supplied plastic nuts (optional)

2

Connect the flying cable to the Pi (note the polarity)

Pin 1

Red wire

This cable provides I²S digital audio and I²C control

3

Connect the USB cable between the XVF3000 and the Pi

This cable provides power from the Pi to the XVF3000

4

Connect the speaker to the XVF3000 'AUDIO OUT'

Place the speaker adjacent to and behind the mic array
Note: only the left channel is active, right is muted

5

All done! Your hardware is now ready to use

Next, load the Pi software: www.xmos.com/vocalfusion-avs
Then, connect power to the Pi 'PWR IN', as above