

# xCORE VocalFusion 4-Mic Kit for Amazon AVS

## Hardware Setup Guide



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



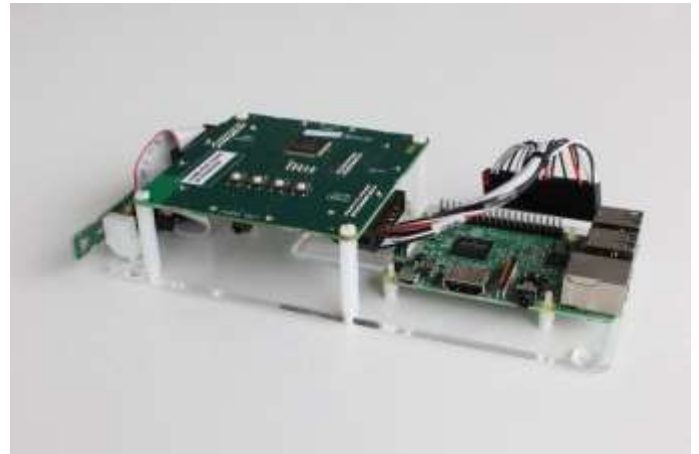
To complete this hardware setup guide you will also need:

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



1

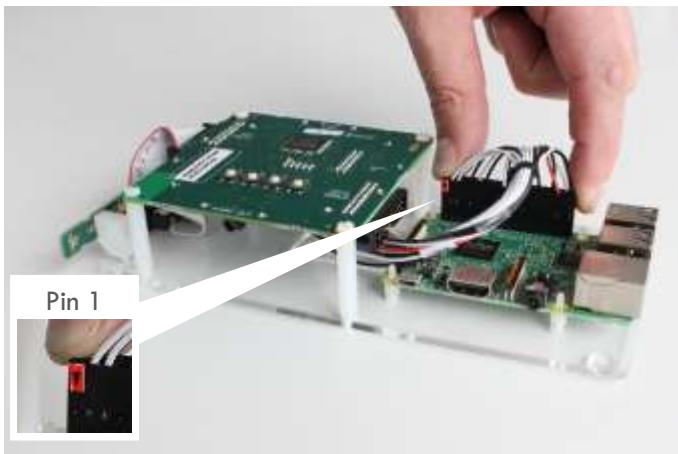
Attach the Raspberry Pi to the standoffs on the kit



Secure the Pi with the supplied plastic nuts (optional)

2

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



This cable provides I<sup>2</sup>S digital audio and I<sup>2</sup>C 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](http://www.xmos.com/vocalfusion-avs)  
Then, connect power to the Pi 'PWR IN', as above