VocalFusion dev kit for Amazon AVS Getting Started

xmos.ai/xvf3510

amazon alexa | XMOS

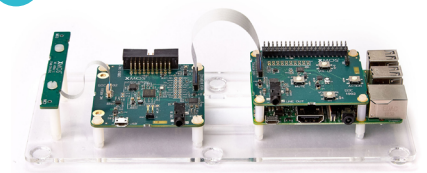
1

Undo plastic screws and remove large plastic spacers that hold the Pi HAT board in place. Take care not to damage the ribbon cable.

2

Fix Raspberry Pi to plastic stand using shorter plastic spacers to support the Raspberry Pi.

3



Screw longer spacers into place on top of RPi and then push Pi HAT onto RPi. Use plastic screws to fix Pi HAT board on top of the RPi.

REQUIREMENTS:

- XK-VF3510-L71-AVS Kit
- Powered speakers with 3.5 jack
- Raspberry Pi model 3 or 4 with power unit
- HDMI monitor, USB keyboard/mouse
- 16GB SD Card running NOOBS
- Amazon Developer Account

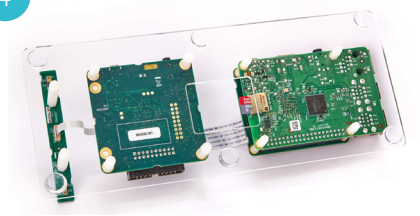
DOCUMENTATION:

- XVF3510 User Guide xmos.ai/file/xvf3510-user-guide
- Vocal Fusion AVS setup instructions github.com/xmos/vocalfusion-avs-setup

FURTHER READING

- Infineon XENSIV MEMs microphone App Notes: AN547, 556, 557, 558

4



Turn kit over and slide SD card (with NOOBS installed) into Pi through the hole in kit stand.

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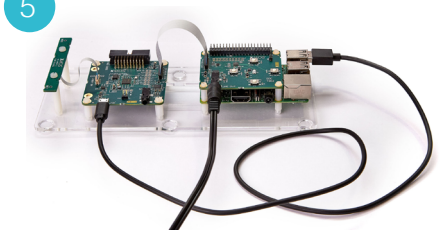

Connect speaker cable to 3.5mm LINE OUT socket on Pi HAT. Connect USB socket on XVF3510 base board to USB socket on Pi to power XVF3510.

6

Connect peripherals (keyboard, mouse, monitor and Ethernet). Connect the Pi to the mains power using Raspberry Pi power unit.

7

AVS SDK INSTALLATION AND RPI AUDIO SETUP

1. Update your dev kit to the latest XVF3510 firmware and install the AVS sofware development kit. Detailed instructions can be found in the README.md file at github.com/xmos/vocalfusion-avs-setup
2. Run the AVS SDK sample applicaton : type avsrun in a terminal window on the Raspberry Pi
3. Try some AVS commands, eg “Alexa, what time is it?”