CSI-HDMI Adapter Board for Raspberry Pi Camera Board

Rev 1.0, Mar 2017

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1. Introduction

The CSI-HDMI adapter board is designed for V1 and V2 Raspberry pi camera board to extend the camera over the long cables while keeping the high-speed CSI signals away from noise and interference. By using high speed HDMI cable, the camera can run over 10 meters, that high extend the usage of the Raspberry pi cameras.

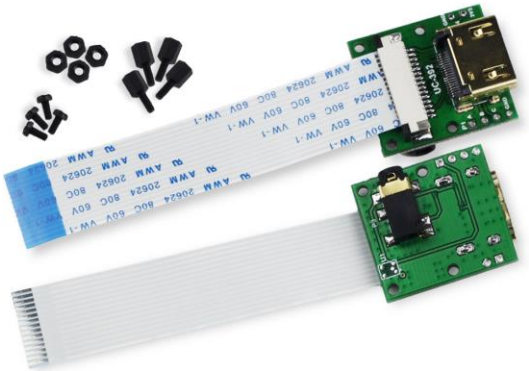
In addition to extend the camera signal, the adapter board provides another 3 signals to be extend with the camera signals together via the headphone jack connector. It can be used to extend standard audio signals, GPIO signals or other sensor signals according to users need. If you need a longer and stronger cable with solid connections, it is right thing for you.

2. Feature & Specification

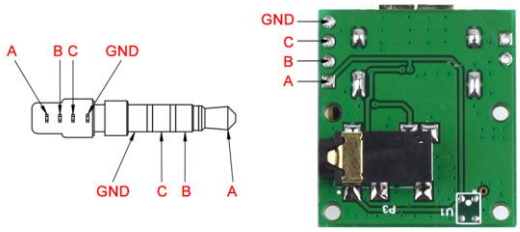
- Supported for Raspberry Pi A/B/B+ boards or Raspberry Pi 2B board or Raspberry Pi 3B board
- Supported for Raspberry Pi camera board V1 (5MP OV5647) or raspberry pi camera board V2 (8MP IMX219)
- HDMI cables can be up to 10 meters (more than 10 meters wasn't tested)
- Reserved microphone and headphone jack for audio or GPIO signals
- Three additional solder pads are available (same signals as headphone jack)
- Size:27.63 x 25.00mm

3. Kit Content

- 2pcs CSI-HDMI adapter board
- 2pcs 80mm 15pin FPC cable
- 4sets M2 screw



4. Headphone Jack Wiring Diagram



5. Assembly Instructions

Assembly is simple but require precision to place and tighten the small M2 screws (4mm). To reproduce the setup shown on the first picture:

- 1 - Assemble the 80mm flat cable between the camera and board, watch carefully the picture for the side of the cable; the connections face away on the extension board and toward the camera.
- 2 - Lock the connectors in place, here it helps to have long nails. This is mandatory for a good connection.
- 3 - Place the boards back to back, the flat ribbon should form the shape of an "S".
- 4 - First with your fingers and maybe tweezers set a screw and spacer loosely. Set another on the opposite side and tighten a bit. Then place the two remaining screws, tighten everything with a small screw driver and a 4mm wrench or a pair of pliers.

6. Mechanical Drawing