

tc358743_000f [0,0]

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Board name: H2C-RPI-B01

HDMI interface to CSI-2 interface

Chip: TC358743XBG

Support TK1 full-featured expansion board

Support Raspberry Pi (linux kernel version to 4.0 or above)

Limited by the performance of Raspberry itself, up to 1080p@25

Physical size: 65x30 mm, fixed hole position is the same as zero.

<https://www.aliexpress.com/item/4000152180240.html>

<https://www.raspberrypi.org/forums/viewtopic.php?f=38&t=120702&start=400#p1339178>

Lusya Upgraded version Raspberry Pi HDMI Adapter Board HDMI interface to CSI-2 TC358743XBG for 4B 3B 3B+ ZERO G11-011

/boot/config.txt

https://fluxcoil.net/hardwarerelated/raspberry_pi_4_tc358743

ensure that all options are enabled

```
dtparam=i2c_arm=on
dtparam=i2s=on
dtparam=spi=on
dtparam=i2c_vc=on
dtparam=audio=on
dtoverlay=vc4-fkms-v3d
dtoverlay=dwc2
dtoverlay=tc358743
dtoverlay=tc358743-audio
start_x=1
gpu_mem=128
```

setup

```
[ 8.590920] tc358743 0-000f: tc358743 found @ 0x1e (bcm2835 I2C adapter)
```

```
root@pihdmi:/home/pi/CSI2_device_config# git remote -v
origin https://github.com/6by9/CSI2_device_config (fetch)
origin https://github.com/6by9/CSI2_device_config (push)
```

```
root@pihdmi:/home/pi/CSI2_device_config# cat edid.sh
```

```
v4l2-ctl --set-edid=file=1080P50EDID.txt --fix-edid-checksums
```

```
root@pihdmi:/home/pi/CSI2_device_config# sh -x edid.sh  
+ v4l2-ctl --set-edid=file=1080P50EDID.txt --fix-edid-checksums
```

CTA-861 Header

```
IT Formats Underscanned: yes  
Audio: yes  
YCbCr 4:4:4: no  
YCbCr 4:2:2: no
```

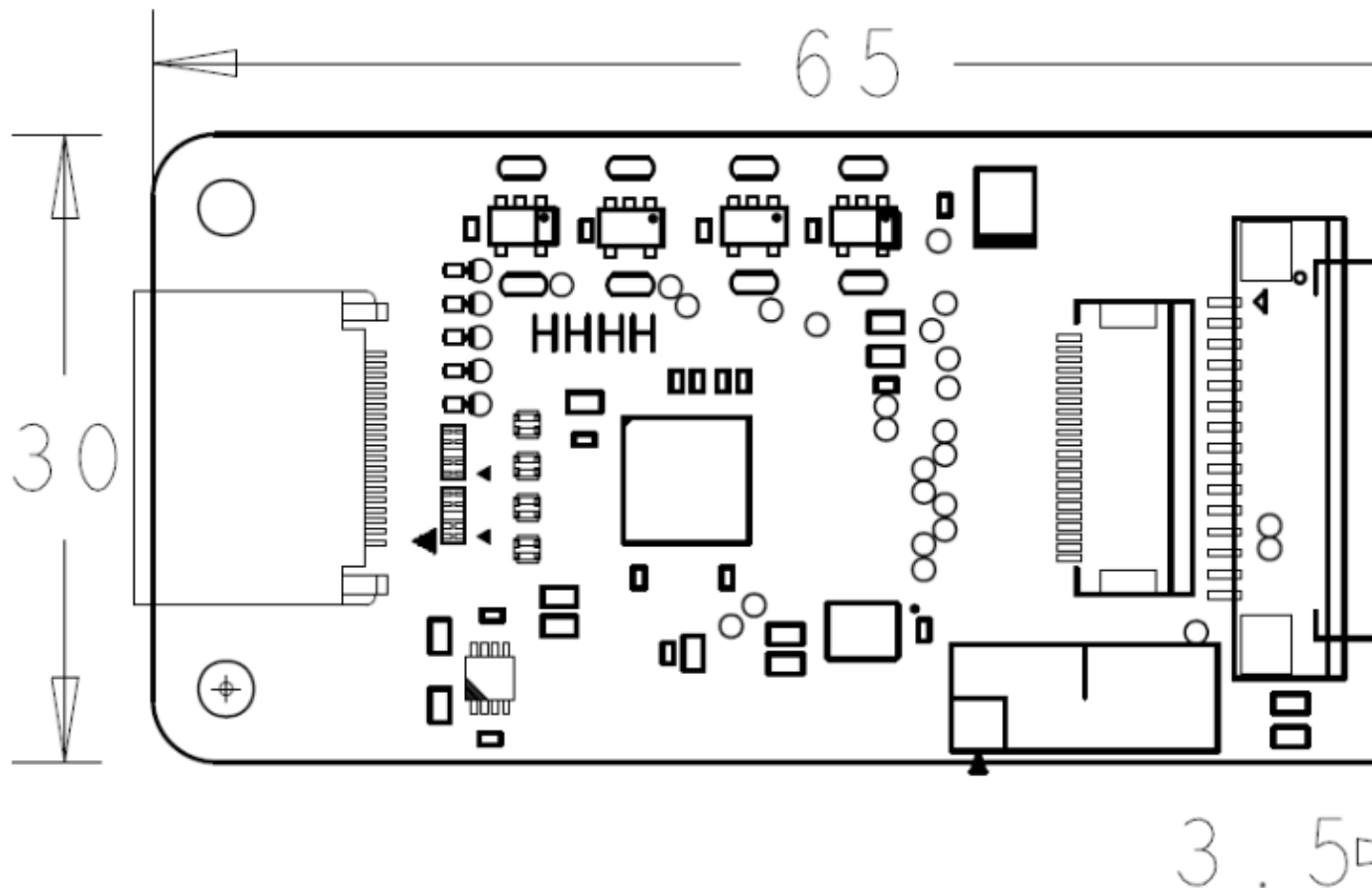
HDMI Vendor-Specific Data Block

```
Physical Address: 3.0.0.0  
YCbCr 4:4:4 Deep Color: no  
30-bit: no  
36-bit: no  
48-bit: no
```

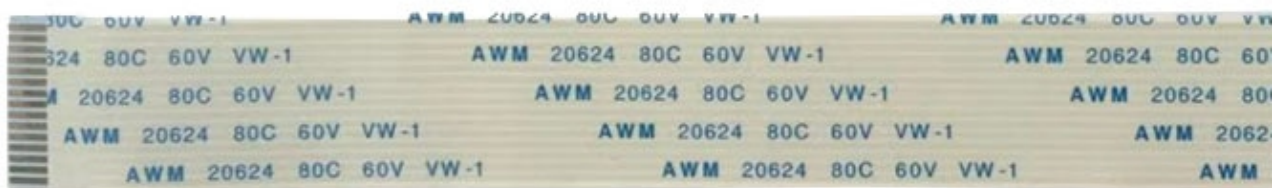
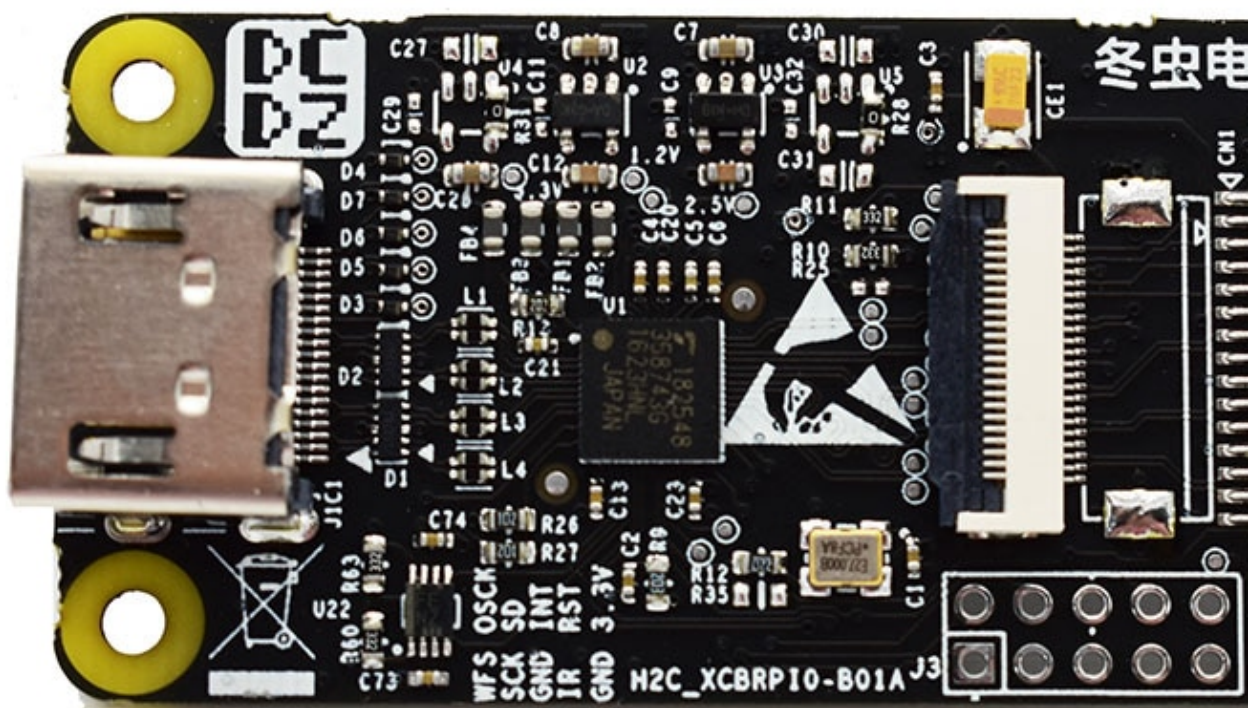
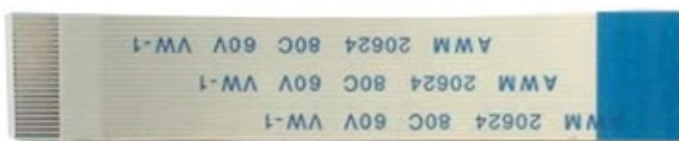
CTA-861 Video Capability Descriptor

```
RGB Quantization Range: yes  
YCC Quantization Range: no  
PT: Supports both over- and underscan  
IT: Supports both over- and underscan  
CE: Supports both over- and underscan
```

https://fluxcoil.net/hardwarerelated/raspberry_pi_4_tc358743



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ustreamer

```
pi@pihdmi:~ $ git clone --depth=1 https://github.com/pikvm/ustreamer
pi@pihdmi:~ $ cd ustreamer/
pi@pihdmi:~/ustreamer $ make WITH_OMX=1
pi@pihdmi:~/ustreamer $ ./ustreamer --dv-timings --device=/dev/video0 --format=uyvy --encoder=omx
--workers=3 --persistent --drop-same-frames=30 --host=0.0.0.0 --port=8080
```