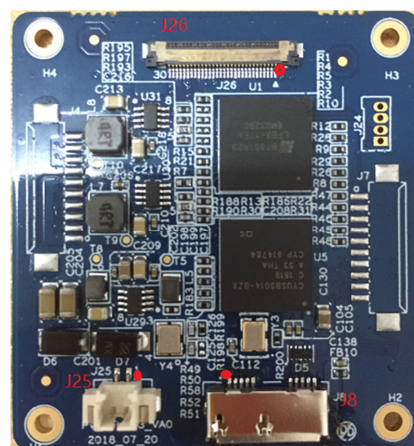# HIVIEW

# HWUSB3B

## Introduction

HIVIEW provides a compact usb3 interface board for camera module.

The board converts the native LVDS signal of the camera and transfers the video image to a computer.

You will take advantage of new visualization, processing and image transfer solutions by using the

network streaming possibilities.

## Features

➢ Support Sony FCB-EH/EV series and SE600

➢ LVDS video input from camera

➢ USB Video Class(UVC)

➢ USB Communication Device Class(CDC)

➢ Automatics Sony camera module recognition

➢ Up to 1080p@60fps video out

➢ Board and camera module management by micro switch

➢ Power supply 5V for SE600,12V(external)

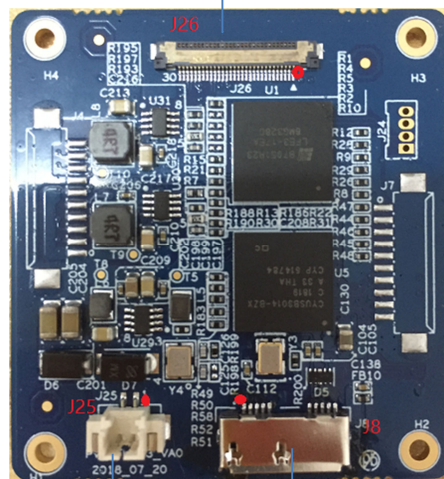➢ Tiny module size 48mm x 48mm x11mm,mounting hole 34mm x 34mm

## Specification

| | | |
|---|---|---|
| Video Input | Interface | LVDS/BT1120 |
| | Frame rate | 1920X1080/60fps   1920X1080/50fps<br>1920X1080/30fps   1920X1080/25fps<br>1280X720/60fps   1280X720/50fps<br>1280X720/30fps   1280X720/25fps |
| Video Encode | USB | USB3.0 |
| | Video Format | YUV 422 |
| | Frame Rate | up to 1080P/60Hz |
| USB parameter | USB Standard | USB3.0 /    USB2.0 |
| | USB UVC Class | Support |
| | USB CDC protocol | Support |
| | Camera setting and control | USB3.0-UVC V1.1-CDC V1.1<br>(VCP embedded RS232 channel) |
| Other | Operating temperature /humidity | -20°era C ~ 55°C/0%-90% |
| | Power supply | Self-powered by USB3.0 or 12VDC |
| | Power consumption (max) | <1.5W |
| | Dimensions(mm) | L(48mm)*W(48mm)*H(11mm) |
| | Weight/PCS(g) | 40g |
| | Operating temperature /humidity | -20°C ~ 55°C/0%-90% |

# Interface

| J26:LVDS | | (30Pin USL20-30SS-005-C) | |
|---|---|---|---|
| No. | Name | No. | Name |
| 1 | NC | 16 | 12V |
| 2 | NC | 17 | 12V |
| 3 | NC | 18 | RXD1 |
| 4 | NC | 19 | TXD1 |
| 5 | NC | 20 | GND |
| 6 | NC | 21 | TXIN0- |
| 7 | GND | 22 | TXIN0+ |
| 8 | GND | 23 | TXIN1- |
| 9 | GND | 24 | TXIN1+ |
| 10 | GND | 25 | TXIN2- |
| 11 | GND | 26 | TXIN2+ |
| 12 | GND | 27 | TXCLK- |
| 13 | 12V | 28 | TXCLK+ |
| 14 | 12V | 29 | TXIN3- |
| 15 | 12V | 30 | TXIN3+ |



| J25: 2Pin | | J8:10Pin | Micro USB3.0 |
|---|---|---|---|
| No. | Name | No. | Name |
| 1 | GND | 1 | VBUS |
| 2 | 12V | 2 | D- |
| | | 3 | D+ |
| | | 4 | ID |
| | | 5 | GND |
| | | 6 | MICRO_SSTX- |
| | | 7 | MICRO_SSTX+- |
| | | 8 | GND |
| | | 9 | MICRO_SSRX- |
| | | 10 | MICRO_SSRX+ |