

USB3.0 INTERFACE BOARD

FOR SENTECH AF243-LVD CAMERA

SENTECH




InterTest provides a compact USB3.0 interface board for STC-AF243-LVD camera.

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

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

FEATURES

- Supports STC-AF243 LVDS video input
- Up to 1080p30, 4:2:2 YUV format
- USB Video Class (UVC) Compliant
- USB Communication Device Class (CDC)
- Support Windows and Linux OS 
- Automatic Sony camera recognition
- Board and camera management by DIP switches*
- Power supply 5V-9V
- Tiny module size 48mm x 45mm x 11 mm

**The camera need to be restarted

○ Video output from FCB to USB3.0

Facility and flexibility

A single USB3.0 cable is required to power, to control and collect the video stream from the camera. This enables easy implementation of image capture solutions on most devices with a USB3.0 port.

○ Add-on connector

A very useful connector on the back side of the USB3.0 module directly connected to the FPGA will allow you to plug-in additional boards to implement your own functions (Sync information, strobe pulse, external trigger, accelerometer, SD card for local storage...)

○ Display video: UVC 1.1 & DirectShow compatibility

The drivers on the camera are compatible with UVC v1.1 (USB Video Class).

This allows to directly use standard software for video viewing & recording (VLC, Amcap, VirtualDub ...), for image processing, streaming (Skype), or application programming using the DirectShow library.

TARGET APPLICATIONS



Onboard Connectors

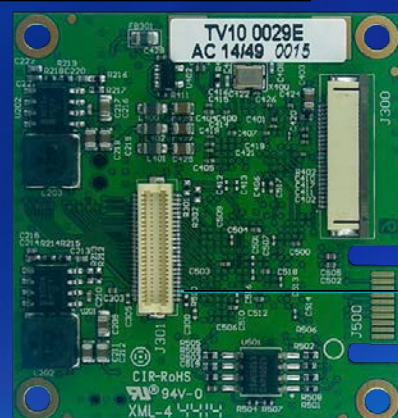
USB
3.0



J303 Sentech LVDS input

SW201 Camera supply out

1 9V



SW400 Operating mode
OFF ON

1	RS KEL	RS FFC
2	CDC	UVC
3	NC	NC
4	NC	NC

J200 Ext. power supply

1	6 to 12V DC
2	GND

SW200 Power supply mode

1	External
2	USB

J301 Add-on connector

Functions	Specifications
Digital video output	USB3.0
Camera setting and control	USB3.0 – UVC v.1.1
Digital video output connector	Micro USB3.0 B-type
Power supply	Self-supply by USB3.0 or 6 to 12 VDC, 6 W (including camera)
Operating temperature range	0°C to 60°C
Storage temperature range	-20°C to 60°C
Regulation	EMC FCC part 15, PCB : UL 94 V0
Dimensions (mm)	48 (H) x 45 (W) x 11 (D)
Weight (g)	15

USB3.0 interface set for Sentech AF243-LVD

P/N	TV80 0031	TV80 0031-L
Content		
USB3.0 interface board - ref. TV10 0029	✓	✓
30 way USL20-30SS-012-C Cable assembly (J303)	✓	✓
2 ways cable - power supply (J200)	✓	✓
Right angle black anodized aluminum plate	✓	
Screws + spacers	✓	

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