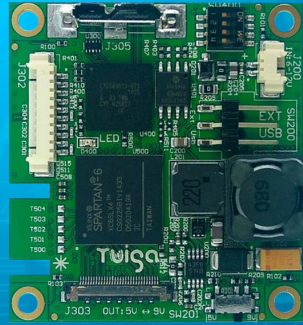


USB3.0 INTERFACE BOARD

FOR TAMRON MP1010-VC Module




Twiga provides a compact USB3.0 interface board for Tamron MP1010M-VC module.

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 USB3.0 streaming possibilities.



FEATURES

- Supports MP1010M-VC 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



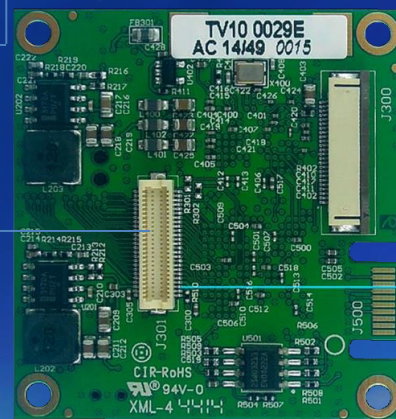
Onboard Connectors

**USB
3.0**



	SW400 Operating mode	
	OFF	ON
1	RS KEL	RS FFC
2	CDC	UVC
3	NC	NC
4	NC	NC

J303 TAMRON LVDS input



SW201 Camera supply out

1 9V

J200 Optional Ext. power supply

1 6 to 12V DC

2 GND

J301 Add-on connector

SW200 Power supply mode

1 External

2 USB

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 Tamron MP1010M-VC

P/N	TV80 0031-L
Content	
USB3.0 interface board - ref. TV10 0029	✓
30 way USL20-30SS-012-C Cable assembly (J303)	✓
2 way cable - power supply (J200)	✓



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