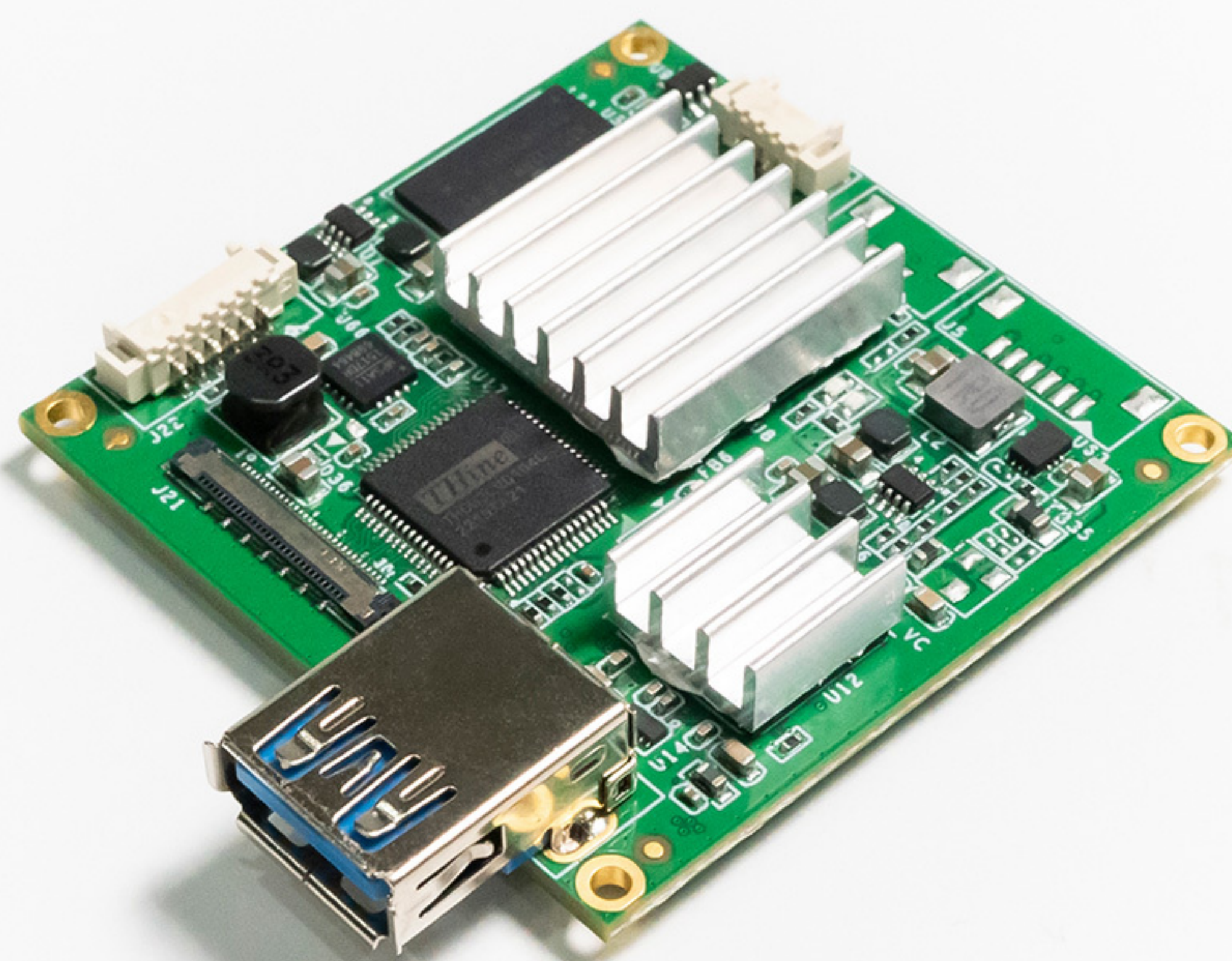




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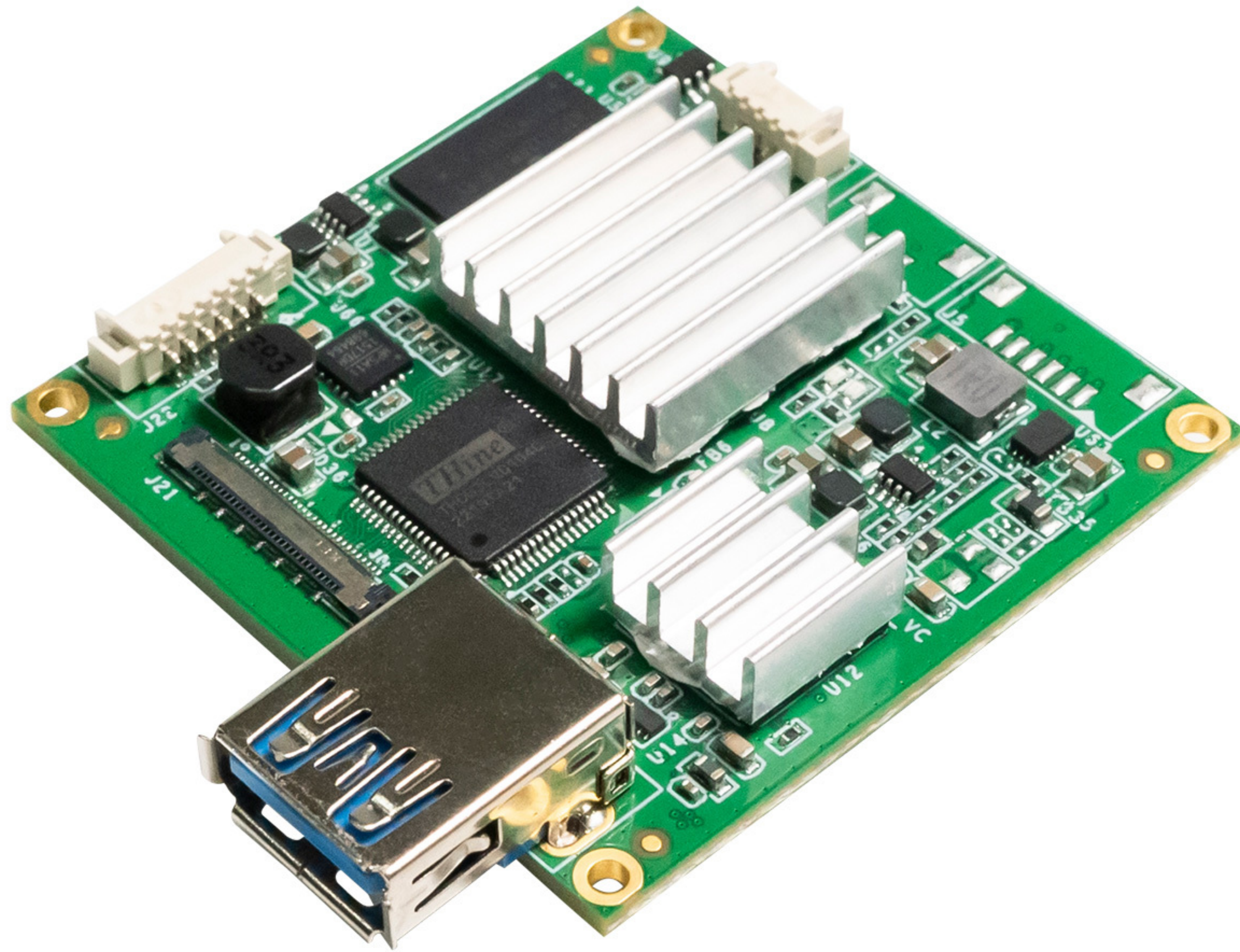
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A Brief Introduction of USB3.0 Capture Module PCB-UD101 for SONY FCB EV/CV Zoom Color Camera Blocks

User Manual



Description:

- ◆ Suitable for SONY FCB EV/CV EH/CH series of HD zoom camera blocks.
- ◆ Work with most digital zoom camera blocks that have the same interface as SONY FCB series cameras.
- ◆ Connect the zoom camera blocks through the LVDS interface to automatically identify the camera's HD video format.
- ◆ Support various frame rates of 720P 1080I 1080P, making the images taken by the SONY FCB zoom camera blocks perfectly displayed on the computer screen.

List of supported SONY zoom camera sand their video for mats

Movement name	USB3.0
FCB-EH6300/CH6300	1080P30 1080P25 1080I59.94 1080I50 720P60 720P50 720P30 720P25
FCB-EH6500/CH6500	
FCB-EV7100/CV7100	1080P60 1080P59.94 1080P50 1080I59.94 1080I50 720P60 720P50 720P30 720P25
FCB-EV7300/CV7300	
FCB-EV7310/CV7310	
FCB-EV7320/CV7320	
FCB-EV7317/CV7317	
FCB-EV7500/CV7500	
FCB-EV7520/CV7520	
FCB-EV7517/CV7517	
FCB-EV9500L	
FCB-EH3300/CH3300	720P60 720P50 720P30 720P25
FCB-EH3400/CH3400	
FCB-EH3150/CH3150	
FCB-EV5500/CV5500	
FCB-EV5300/CV5300	

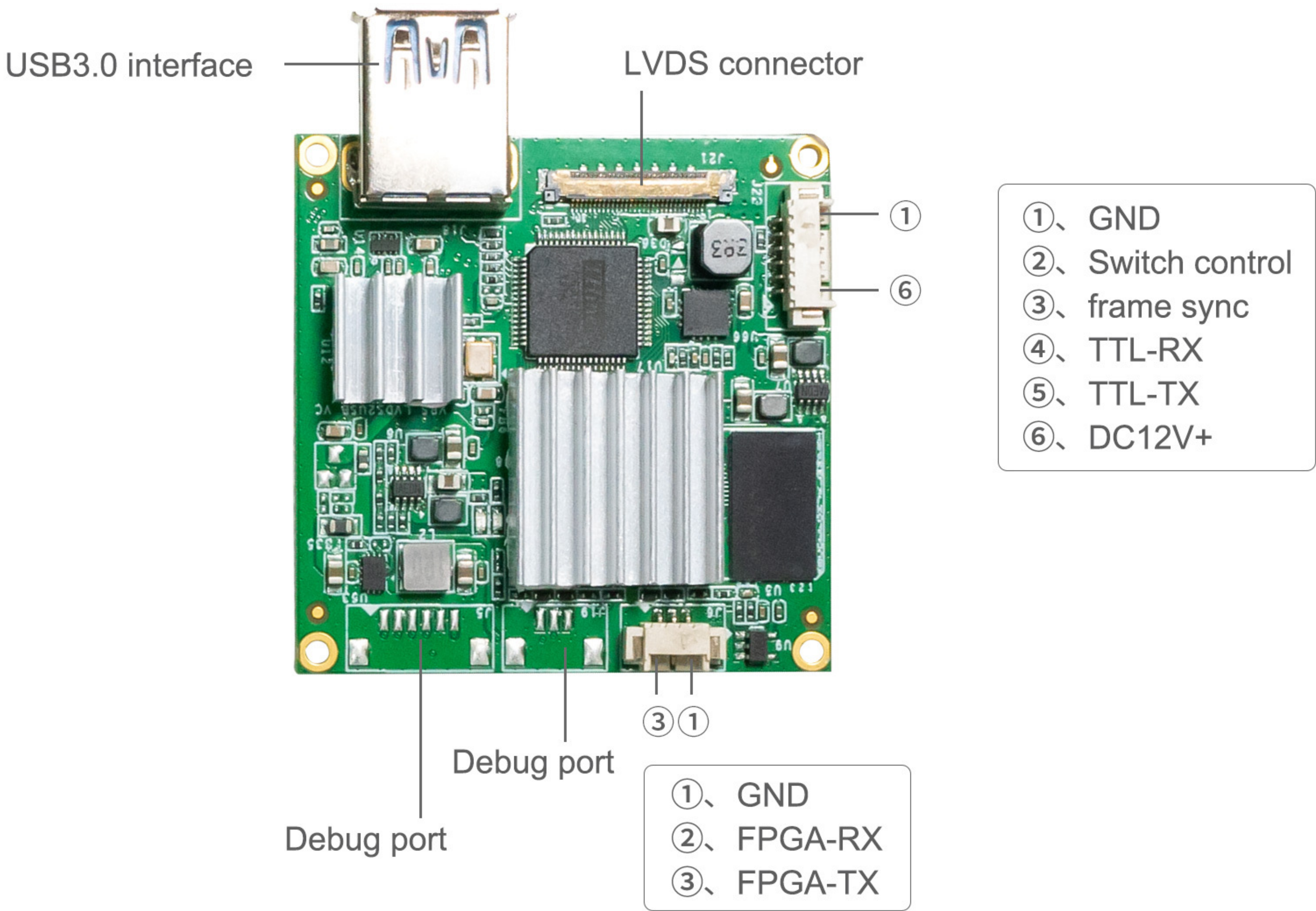
* Output HD video signal based on the standard UVC protocol, both driver-free in the Windows7 &Windodws10 system.Video formats as following:1080P60 1080P50 1080P30 1080P25 1080P10720P60 720P50 720P30 720P25 720P20 720P10 800*600P50 800*600P30800*600P25640*480P60 640*480P50.Adapt to a variety of live streaming programs and QQ, WeChat, SKYPE andother instant messaging softwares.

Specifications

Features	Parameters
Applicable cameras	SONY FCB HD series,or any brand as the same interface
Output format	1080P、720P、800*600P 640*480P
Driver	Driver free for zoom cameras; Driver needed for serial por
Serial port	Supported
Power supply to the camera	Supported
PC,camera,MCU communication function	Controllable
OSD overlapped character	Not currently supported(subsequent updates)
Power supply	DC12V 1A
Dimension	48*48*5mm （The USB interface and radiator size are not calculated）
Weight	17g
Working temperature	-5~65 degrees

Interface definition

- ◆ DC12V + and GND are positive and negative interface for external backup power supply.
*Power supply range：DC9~12V （1.0A）
- ◆ TTL-RX and TTL-TX are the TTL232 communication interfaces, with a voltage of 3.3V.They communicate with MCU serial ports.
- ◆ The communication interface can control the camera, or communicate with the serial port inside The USB after the control switch port is set low to send various MCU information to the computer.
- ◆ Frame synchronization interface: through the control of the interface, the frame frequency can be controlled to output the image.



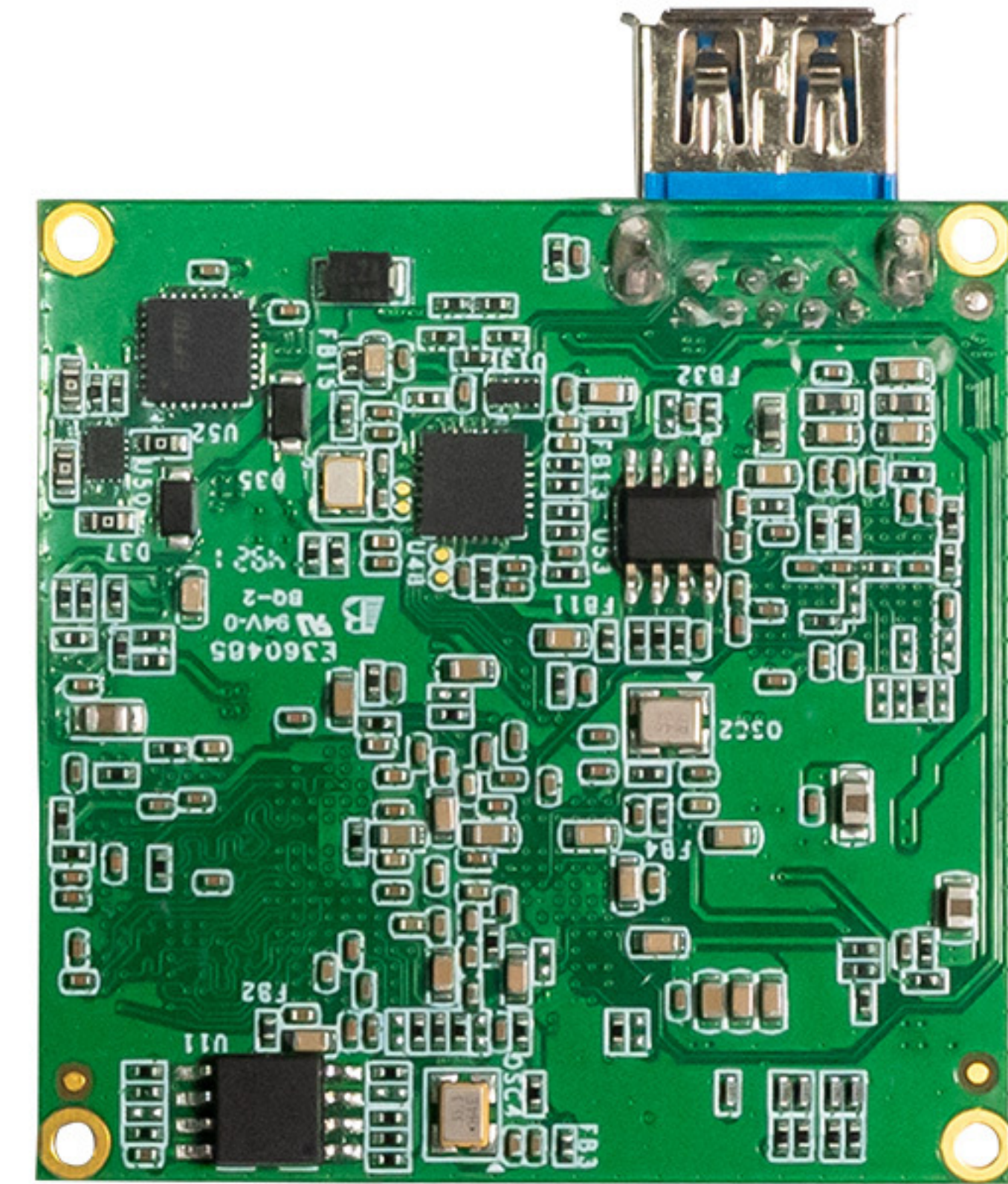
The rear of the module

A single thread solves all the problems:

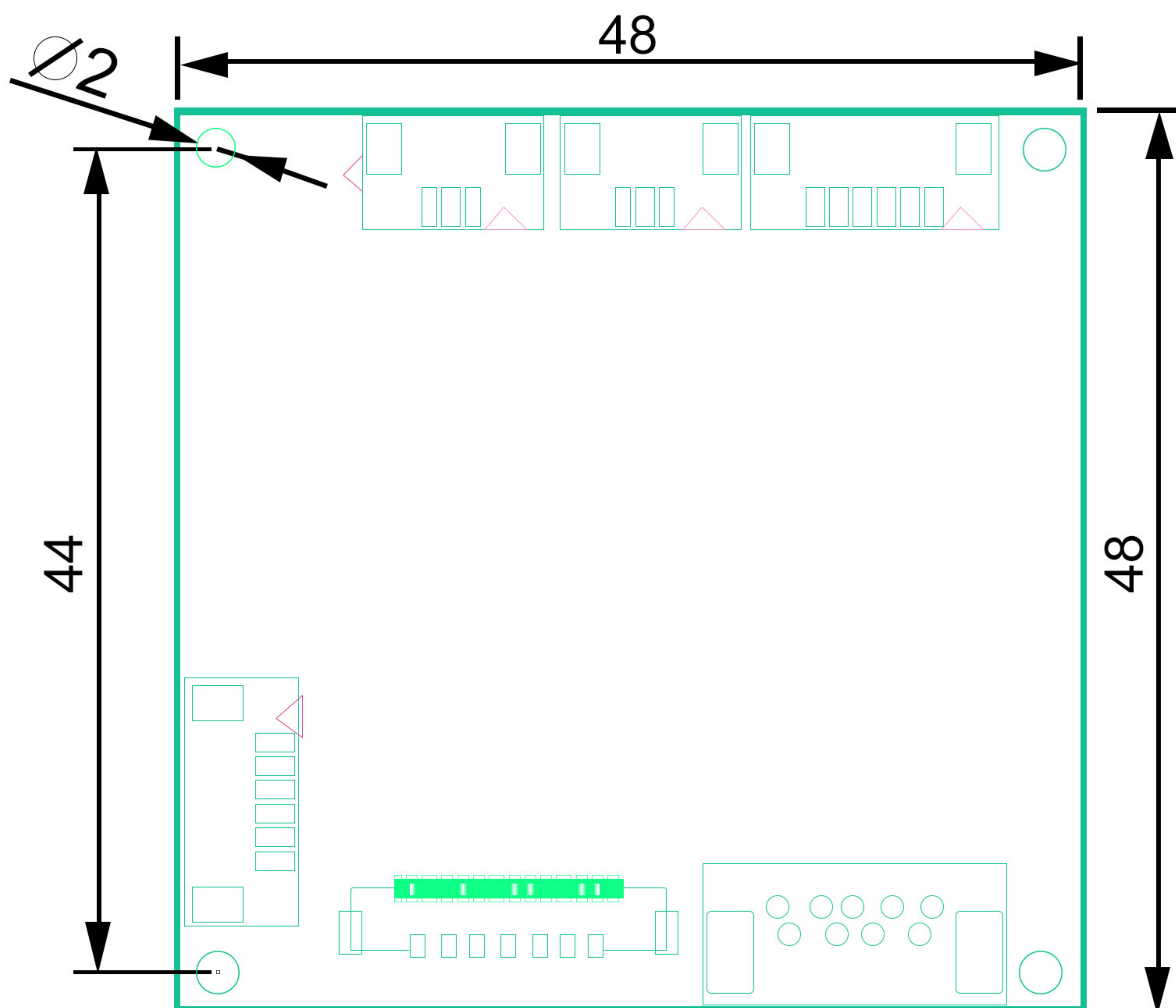
After the USB3 , 0 interface is connected to the computer through the USB3.0 cable , It can realize the output of the high-definition video signal , the serial port control signal and the power supply to the camera , so as to reduce other communication and power supply cables.

Additional remarks :

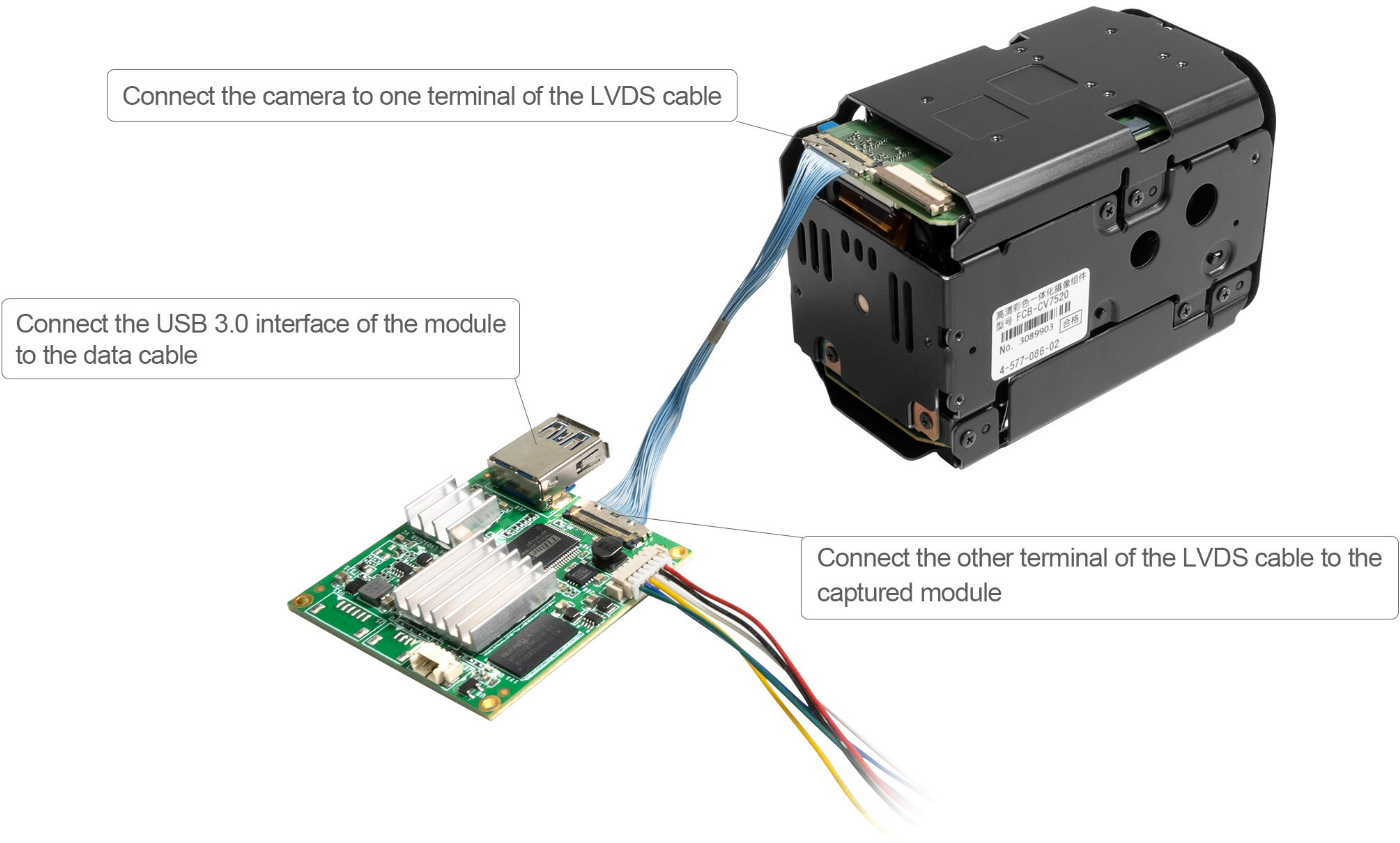
If the camera cannot start due to insufficient USB power supply , external DC12V power supply is required.



Outline dimension and positioning hole dimensions (dimension in mm)

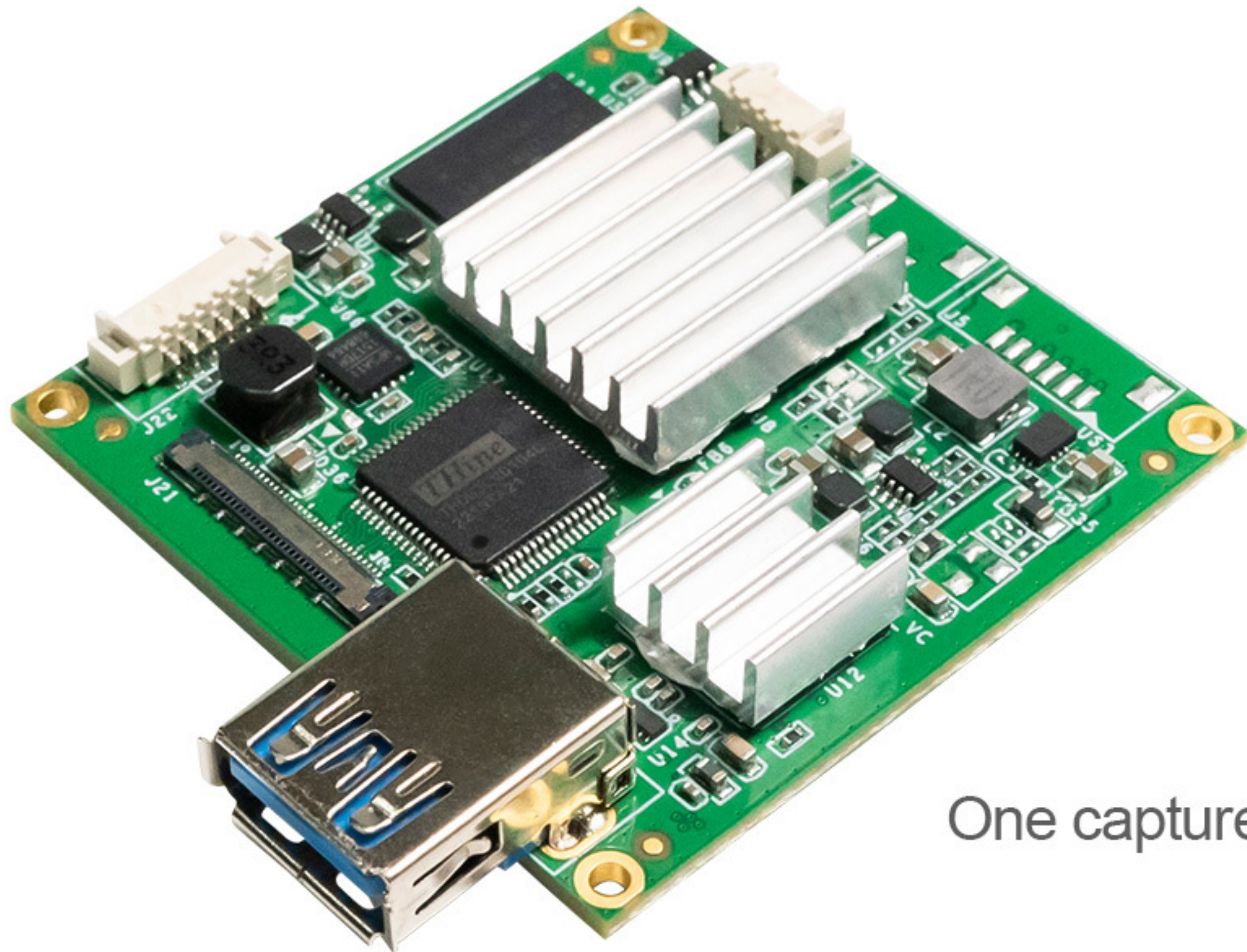


Step for connecting the camera to the control panel

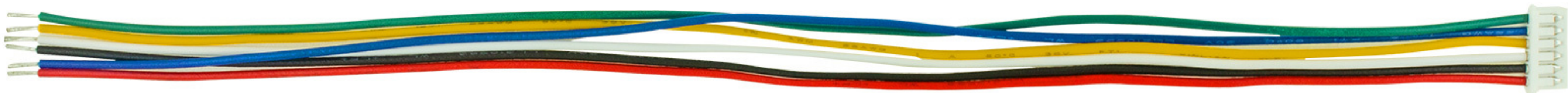


List of items

- * One capture module
- * One pcs of 6-pin terminal cable
- * One pcs of LVDS cable



One capture module



6-pin terminal cable



LVDS cable