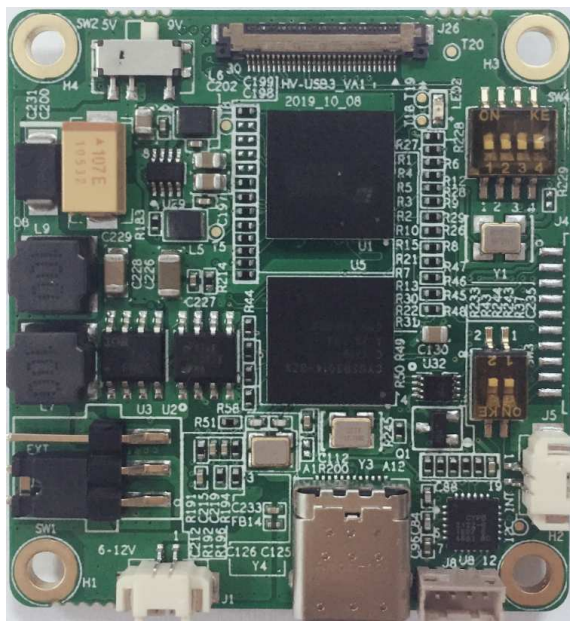


HV-USB3 Specification

USB3.0 Super speed HD Video Streamer

Horizontal Type c Connector

Adapt to Sony/Hitachi/Hikvison.....zoom module camera series



The board converts the native LVDS signal of the camera and transfers the video image to a computer. You will take advantage of new visualisation, processing and image transfer solutions by using the network streaming possibilities.

Feature

- Support Sony FCB-EH/EV series and SE600, Hitachi, Hikvison.....and so on mainstream companies zoom module, support inter-sync and external-sync signal

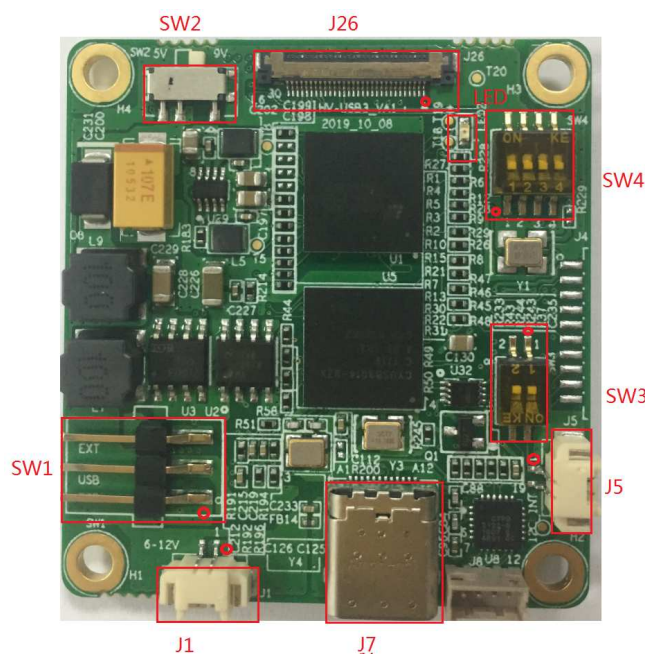


- LVDS video input from camera
- USB Video Class(UVC)
- USB Communication Device Class(CDC)
- Automatics Sony camera module recognition
- Up to 1080p60fps video output,excellent output image quality,low delay
- Board and camera module managment by micro switch
- Tiny module size 48mm x 45mm x10mm,mounting hole 42mm x 39mm

Specification

TPYE	Type	HV-USB3	
	Description	LVDS to USB3.0 Board	
Video Input	video standard	LVDS	
	frame rate	1920X1080/60fps	1920X1080/50fps
		1920X1080/30fps	1920X1080/25fps
		1280X720/60fps	1280X720/50fps
		1280X720/30fps	1280X720/25fps
Video Output	USB	USB3.0	
	video formate	YUV 422	
	frame rate	1920X1080/60fps	1920X1080/50fps
		1920X1080/30fps	1920X1080/25fps
		1280X720/60fps	1280X720/50fps
		1280X720/30fps	1280X720/25fps
USB parameter	USB standard	USB3.0 / USB2.0	
	USB UVC Class	Support , Drive free installation	
	USB CDC protocol	Support	
	Camera setting and control	USB3.0-CDC /Exteranl control interface	
	Type C positive and negative insertion	Support	
System	Online upgrade software by USB	Support	
Other	Operating temperature /humidity	-20°era C ~ 55°C/0%-90%	
	Power supply	Self-powered by USB3.0 or external 5-12V DC Remark:when the power consumption of camera more than 3W,the external power supply mode must be selected(recommended DC5V 1.5A, DC12V,1A)	
	Power consumption (max)	<1W	
	Dimensions(mm)	L(48mm)*W(45mm)*H(10mm)	
	Weight/PCS(g)	40g	
	Operating temperature /humidity	-20°C ~ 55°C/0%-90%	

Interface description (note: the red circle mark the first pin of socket)



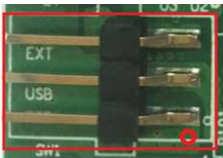
Green LED: (off: system is in progress, on: system start-up complete and work properly)

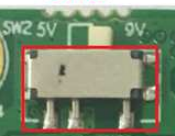
J26: LVDS USL20-30SS-005-C (30Pin)			
Pin No.	Pin Name	Pin No.	Pin Name
1	NC	16	12V
2	NC	17	12V
3	NC	18	RXD1
4	NC	19	TXD1
5	NC	20	GND
6	NC	21	TXIN0-
7	GND	22	TXIN0+
8	GND	23	TXIN1-
9	GND	24	TXIN1+
10	GND	25	TXIN2-
11	GND	26	TXIN2+
12	GND	27	TXCLK-
13	12V	28	TXCLK+
14	12V	29	TXIN3-
15	12V	30	TXIN3+

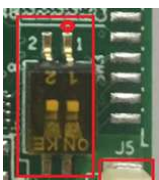
J1: Optional external power		J7: Type C 24Pin	
Pin No.		Pin No.	

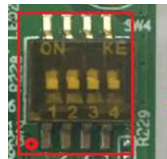
1	5-12V DC		
2	GND		

J5:Zoom module camera control Uart			
Pin No.	Pin Name		
1	TX(camera to host)		
2	RX(host to camera)		

SW1:Power supply mode			
	Pin No.		
	1-2		USB
	3-2		External

SW2:Camera power supply output (just suitable for USB power supply mode)			
	Pin No.		
	1		5V(SE600)
	2		9V(default)

SW3:Camera control UART mode			
	Pin No.		
	1,2 On		USB CDC(default)
	1,2 Off		External

SW4:Camera type selection			
	Pin No.		
	4/3/2/1: on(1) off(0)		
	0000(default)		Sony FCB-EV and most of general company's camera(Hitachi,Hikvison,powerview.....)
	0001		Sony FCB-EH
	0010		Reserve
		Reserve

Board Mechanical

Mounting holes drill=3.0mm Land=5mm

