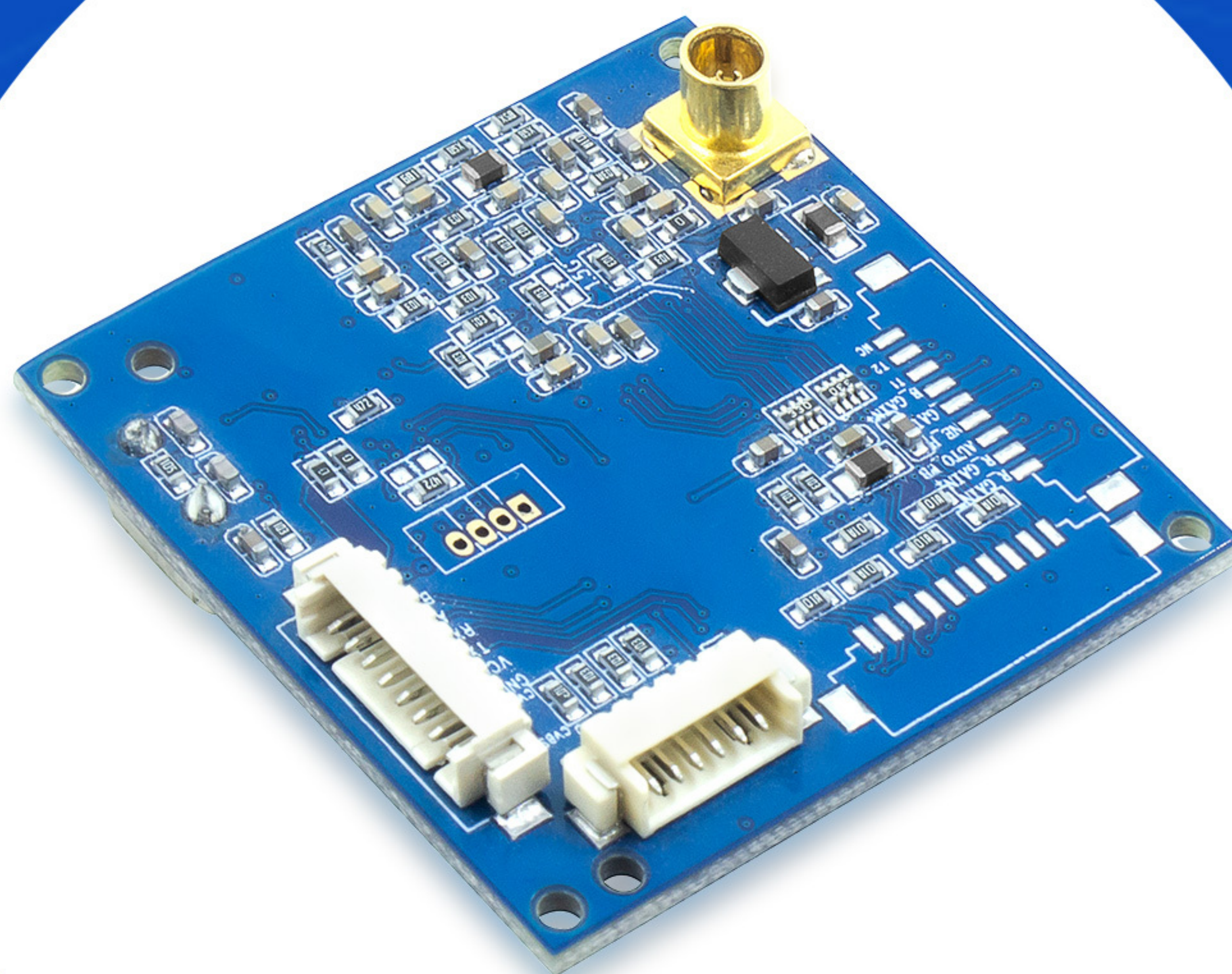




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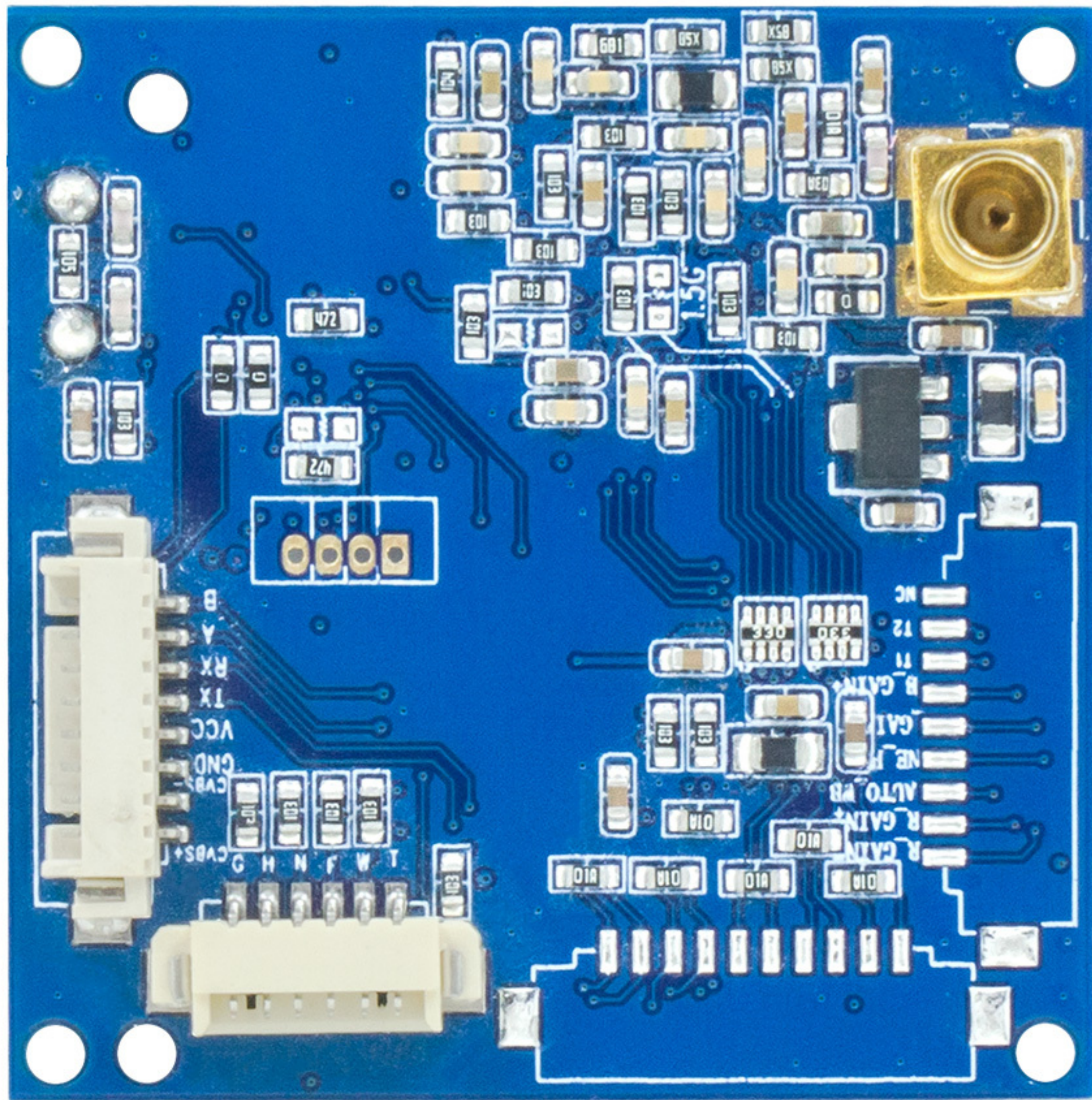
www.volers.cn



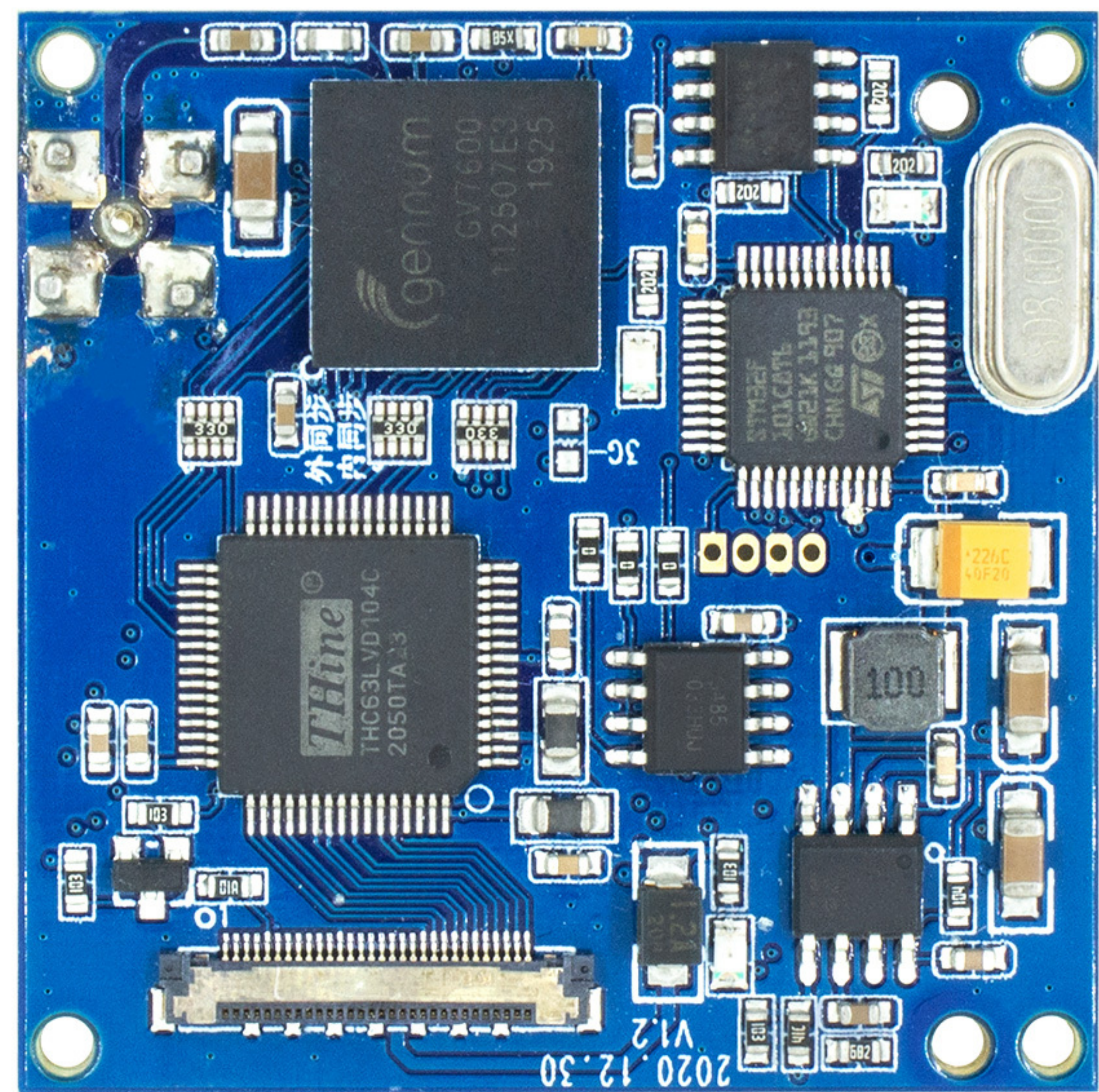
maggie@volers.cn

HD-SDI Interface board special for high-definition camera module

User Manual



Front



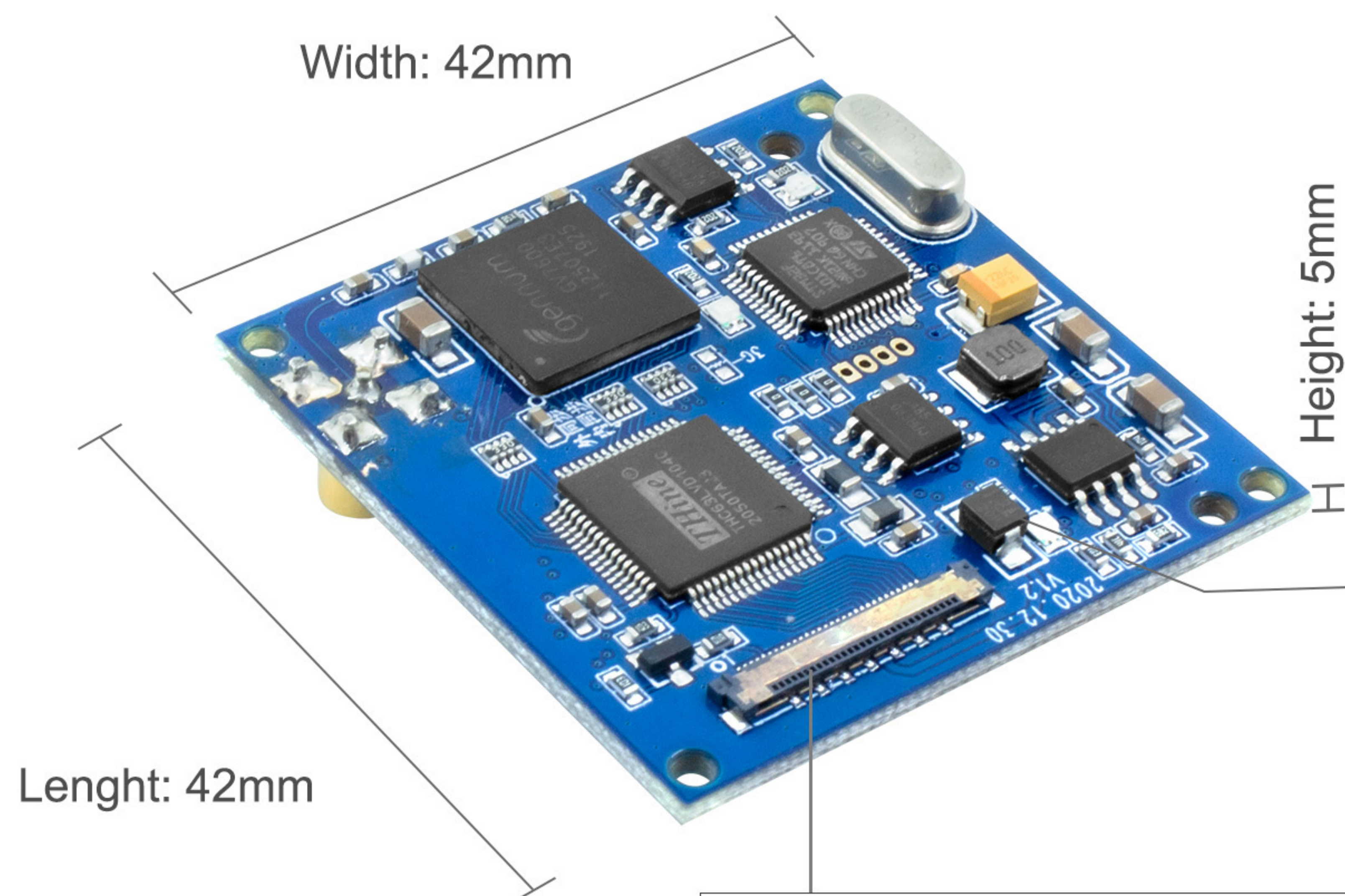
Rear

Mini HD-SDI interface board PCB-HD020 is used for HD zoom camera modules of SONY FCB EV/CV EH/CH series. It is connected to the camera through LVDS interface and configured with corresponding HD video format output after automatically identifying the camera. It also supports other brands of zoom cameras with SONY VISCA protocol.

Supported zoom cameras and video formats

Supported zoom cameras: Video format:	3G-SDI	HD-SDI	720P	CVBS
FCB-EH6300/CH6300				
FCB-EH6500/CH6500				
FCB-SE600/CSE600				
FCB-EH4300				
FCB-EV7100/CV7100				
FCB-EV7300/CV7300	1080P60 1080P59.94 1080P50	1080P30 1080P29.97 1080P25 1080I50 1080I59.94 1080I60	720P60 720P59.94 720P50 720P30 720P29.97 720P25	PAL NTSC (Not output synchronously with HD signal)
FCB-EV7310/CV7310				
FCB-EV7320/CV7320				
FCB-EV7317/CV7317				
FCB-EV7500/CV7500				
FCB-EV7520/CV7520				
FCB-EV7517/CV7517				
FCB-EH3300/CH3300				
FCB-EH3400/CH3400				
FCB-EH3150/CH3150				
FCB-EV5500/CV5500				
FCB-EV5300/CV5300				

Interface Assignment



Fuse tube:
1.2 A current overload protection to simply protect the camera and prevent it from burning out.

LVDS connector:
digital input interface of the camera.

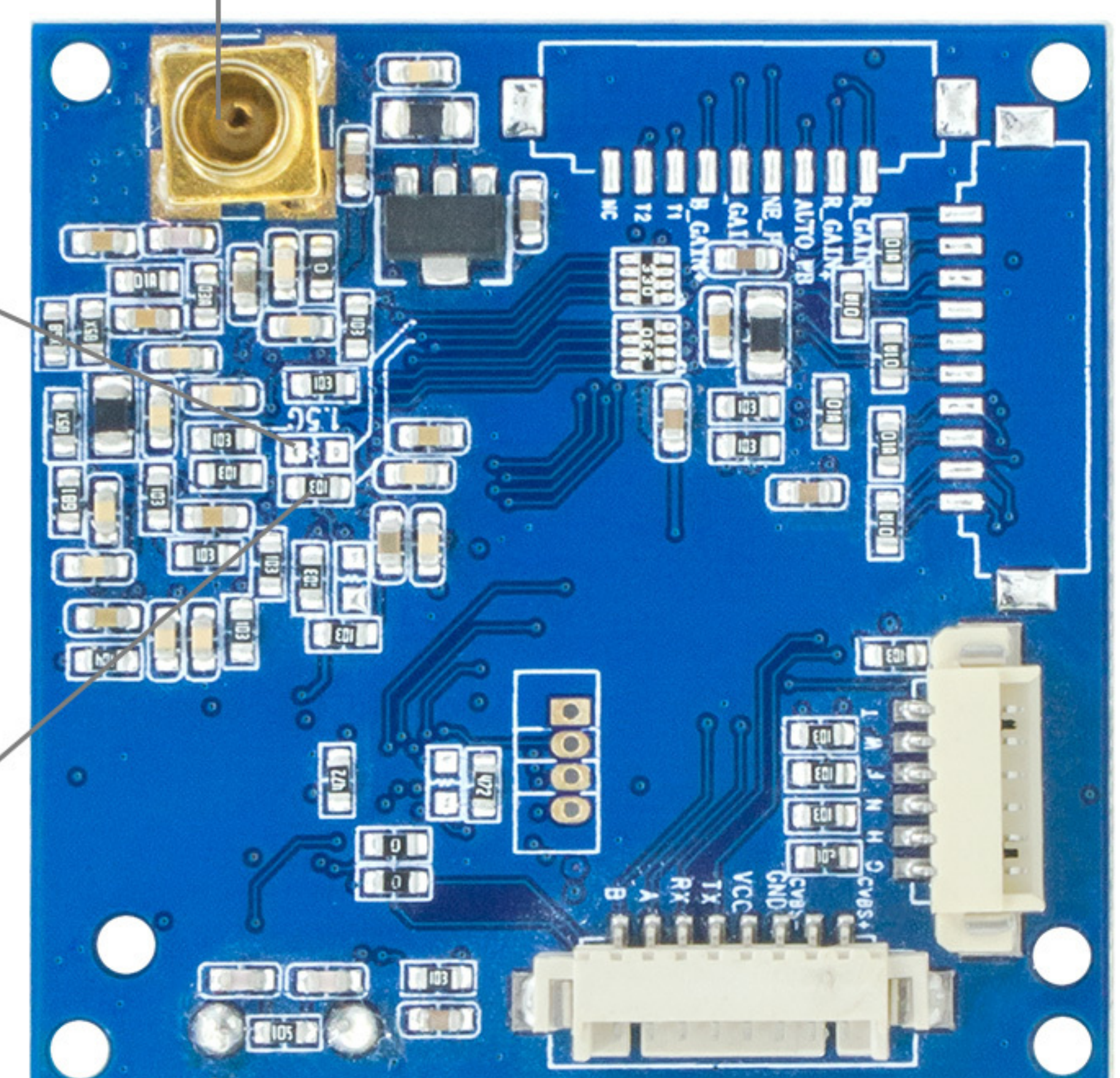
■ Size: 42MM * 42MM * 5 MM

■ Net weight: 6.5gram

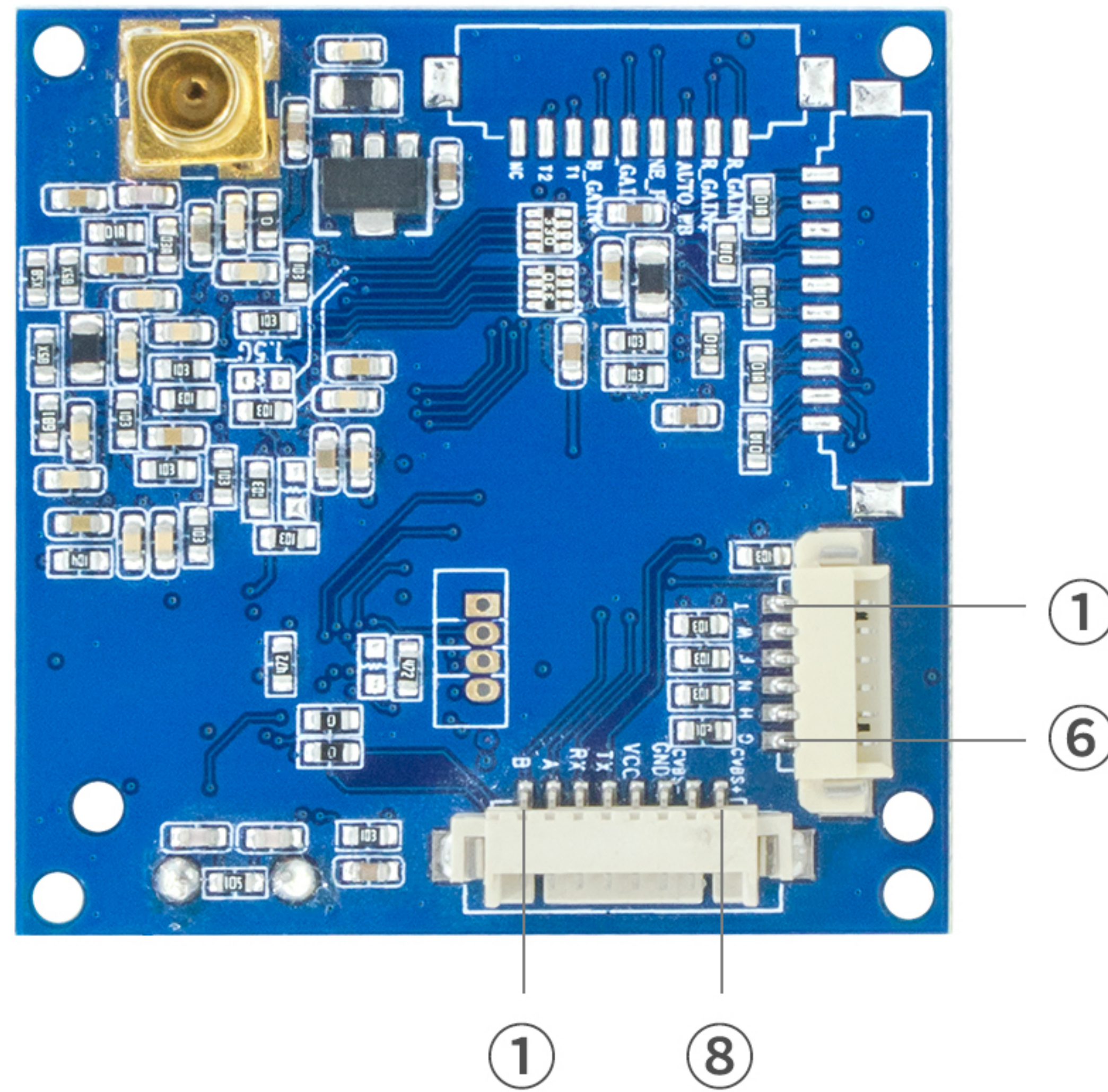
MCX video connector:
HD-SDI/3G-SDI HD video output interface.

External synchronization:
distribute the synchronization signal to the external synchronization input of the camera to complete the synchronization.

Internal synchronization:
The operation is completed by the synchronization signal of the internal synchronization signal generation circuit of the camera.



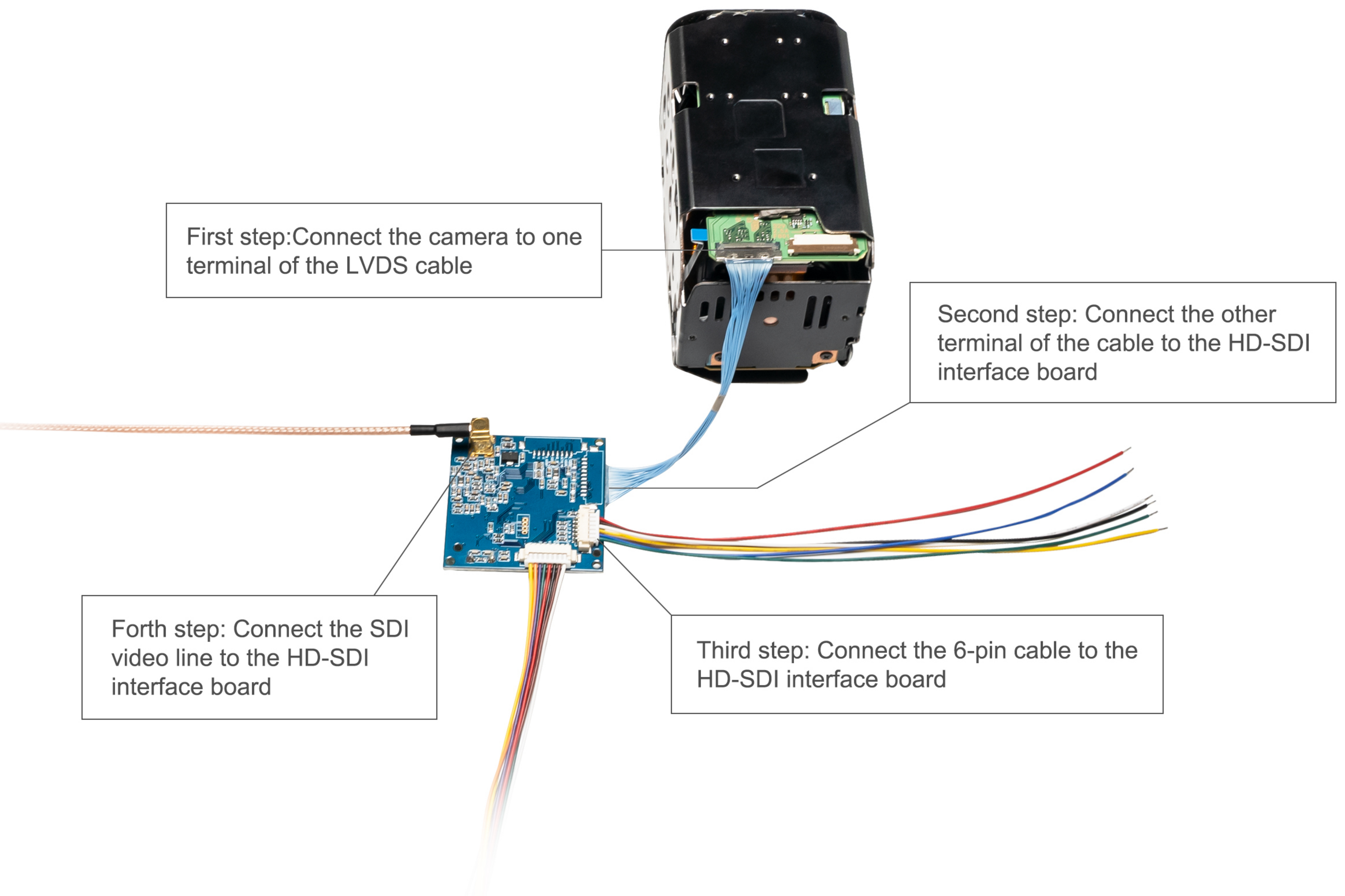
■ Note: The internal and external synchronization mode is only available in SONY FCB-EH/CH cameras.



- ① Zoom in
- ② Zoom output
- ③ Upward Focus Near
- ④ Upward Focus Far
- ⑤ Menu
- ⑥ Grounding

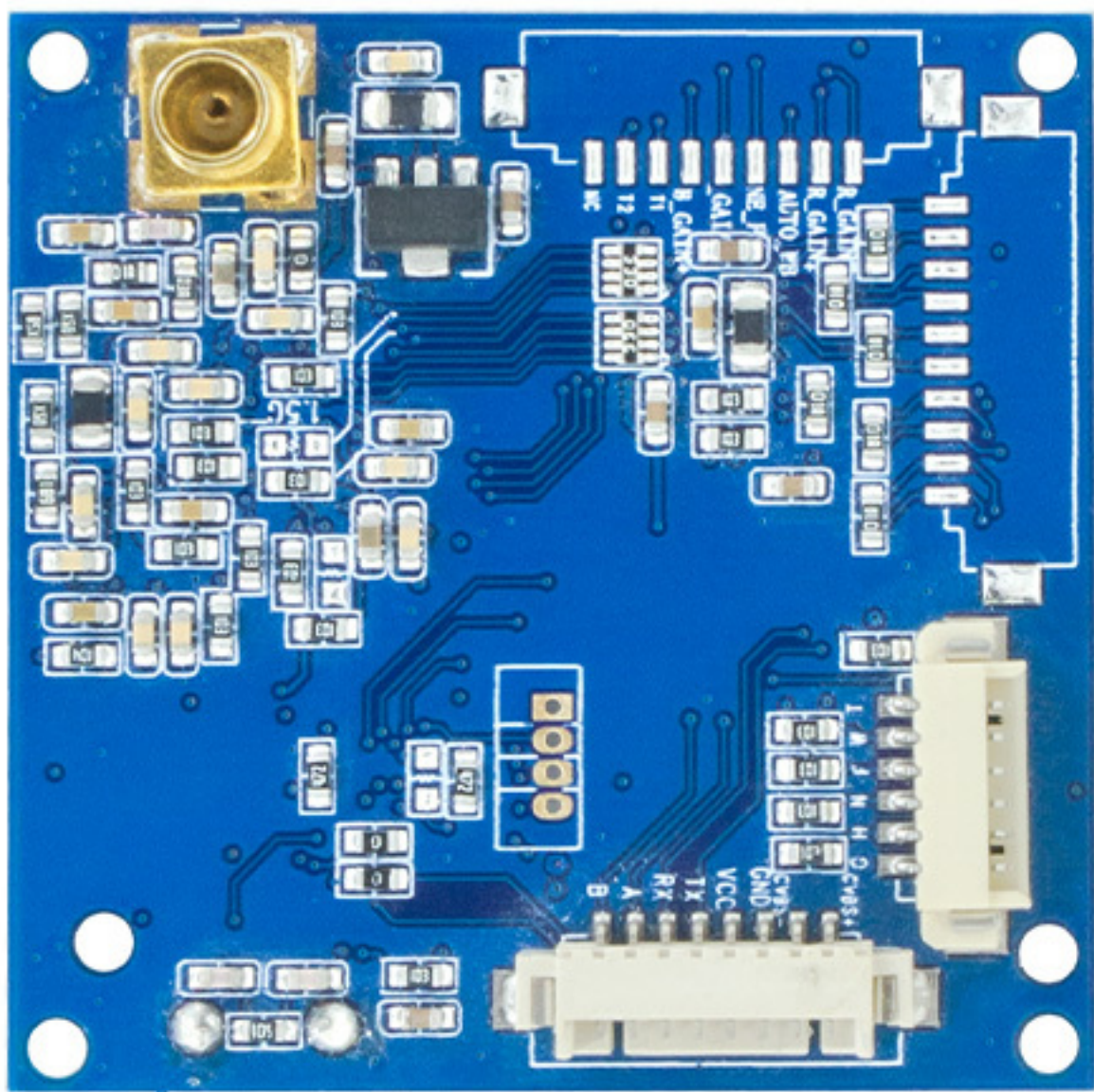
- | | |
|------------------------------|-----------------------------------|
| ① RS485 - | ⑤ DC12V+ |
| ② RS485 + | ⑥ DC12V- |
| ③ RX Data writing (optional) | ⑦ CVBS - (only FCB-EH6300 EH6500) |
| ④ TX Data writing (optional) | ⑧ CVBS + (only FCB-EH6300 EH6500) |

How to connect the zoom camera with the interface board



Item and accessories

HD-SDI Interface board
PCB-HD020



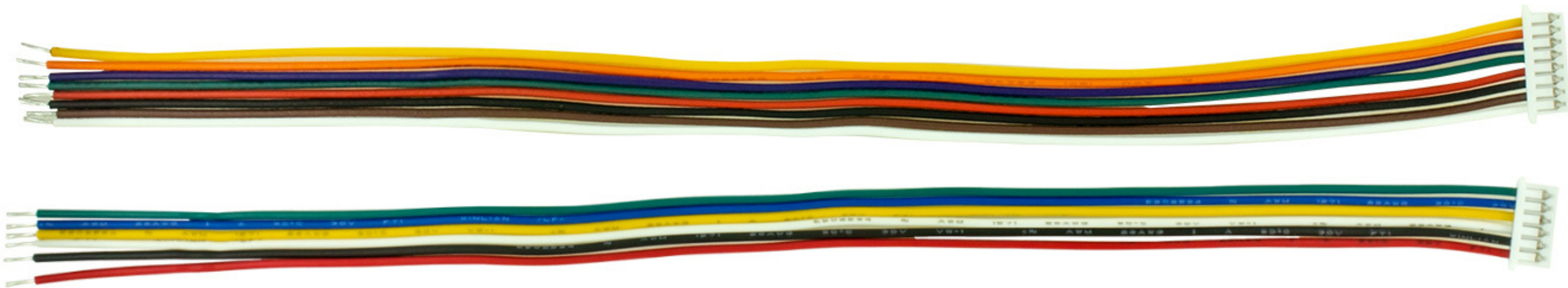
metal base



screws



copper pillars



eight-pin and six-pin termina cable for power supply



LVDS cable

- HD-SDI interface board FCB-HD020 one piece
LVDS cable one piece
Six-pin terminal cable for power supply one piece
Metal base one pcs
Screws 4 pcs
Copper pillars 4 pcs

Option

Item	Part No.	Communication	Size/Weight
3G-HD SDI	PCB-HD020	RS485;	42*42*5mm;6.5g
	PCB-HD022	RS485;TTL	
	PCB-HD014	TTL	