

UVS6-35MPII-IE

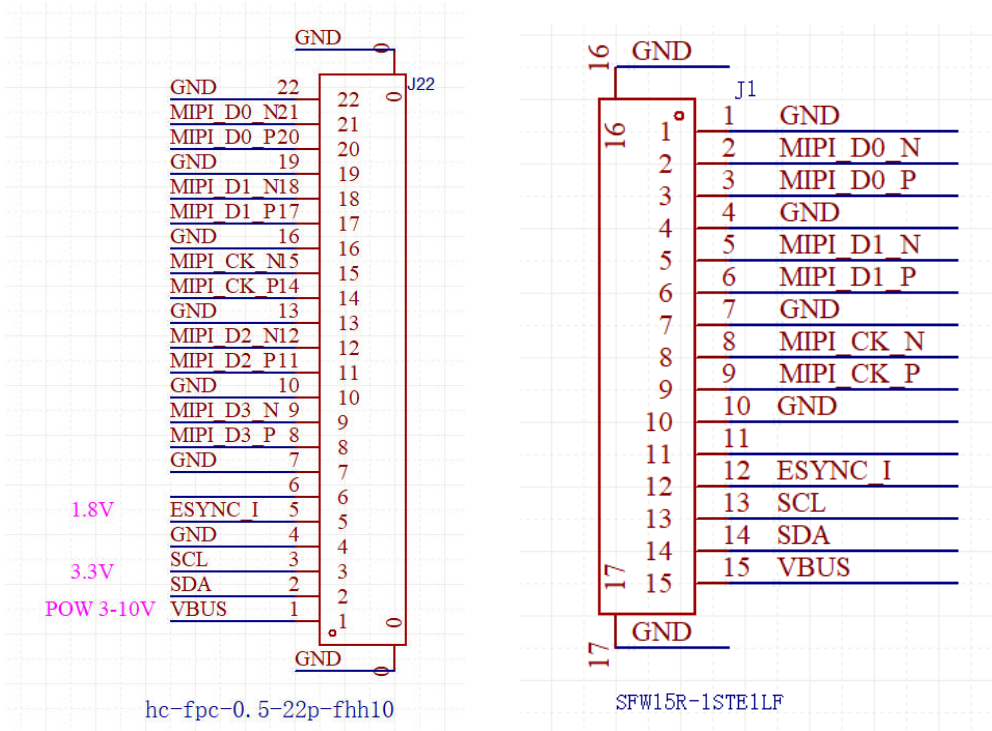
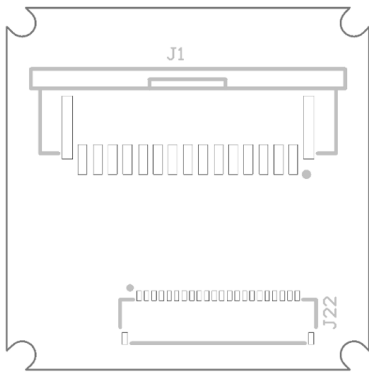
Uncooled IR Imaging Module



1. Technical Specifications

Item	Specifications
Resolution	640×512
Detector	Uncooled VOx Microbolometer
Pitch Size	12μm
Wavelength	8 ~14μm
Frequency	50Hz
NETD	≤ 40mK (@F1.0, 25Hz)
Lens	35mm/F1.0
Digital Zoom	1×, 2×, 4×, 8×
Image Adjustment	Brightness, Contrast, DDE etc.
Image Polarity	White Hot/Black Hot/Pseudo-colors
Image Functions	Crosshair
Video Output	MIPI
Electrical Interfaces	SFW15R-1STE1LF 【MIPI 15pin】 HC-FPC-0.5-22P-FHH10 【MIPI 22pin】
Communication	I2C
Power Supply	DC3.3V(3~10V)
Power Consumption	≤0.8W (steady state)
Weight	45g (without lens)
Size	28mm×28mm×35mm (W×H×L)
Vibration	6.06g, randomly, all axes
Shock	80g@4mS
Working Temperature	-40℃ ~+60℃
Working Humidity	0% ~ 90%RH
Storage Temperature	-55℃ ~ +70℃
Storage Humidity	0% ~ 95%RH

2. Electrical Interfaces



2.1 Interface

2.1.1 SFW15R-1STE1LF - (J1)

User interface adopts SFW15R-1STE1LF connector, including power supply, communication, 2-lane MIPI signal and other interfaces.

2.1.2 HC-FPC-0.5-22P-FHH10 - (J22)

User interface adopts HC-FPC-0.5-22P-FHH10 connector, including power supply, communication, 2 / 4-lane MIPI signal and other interfaces.

2.2 Interface Definition

Pin	Definition	Description
J1		
1	GND	GROUND
2	MIPI_D0_N	Differential signal D0-
3	MIPI_D0_P	Differential signal D0+
4	GND	GROUND
5	MIPI_D1_N	Differential signal D1-
6	MIPI_D1_P	Differential signal D1+
7	GND	GROUND
8	MIPI_CK_N	Differential signal CLK-
9	MIPI_CK_P	Differential signal CLK+
10	GND	GROUND
11	/	/
12	ESYNC_I	External Synchronization Input(reserved)
13	SCL	I2C Serial Clock
14	SDA	I2C Serial Data
15	VBUS	POWER 3~10V
J22		
1	VBUS	POWER 3~10V
2	SDA	I2C Serial Data
3	SCL	I2C Serial Clock
4	GND	GROUND
5	ESYNC_I	External Synchronization Input(reserved)
6	/	/
7	GND	GROUND
8	MIPI_D3_P	Differential signal D3+
9	MIPI_D3_N	Differential signal D3-
10	GND	GROUND
11	MIPI_D2_P	Differential signal D2+
12	MIPI_D2_N	Differential signal D2-
13	GND	GROUND
14	MIPI_CK_P	Differential signal CLK+

15	MIPI_CLK_N	Differential signal CLK-
16	GND	GROUND
17	MIPI_D1_P	Differential signal D1+
18	MIPI_D1_N	Differential signal D1-
19	GND	GROUND
20	MIPI_D0_P	Differential signal D0+
21	MIPI_D0_N	Differential signal D0-
22	GND	GROUND