

CKANPLUS Product Catalog

Model name: MIPI-AR123-G

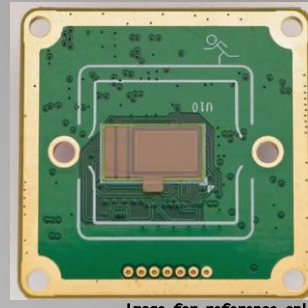


Image for reference only

MIPI-AR0234M is a 2.3 million MONO industrial camera with MIPI interface. This camera has a small size (29*29mm) and rich functions, so it is suitable for integration as an image acquisition component.

Features:

- 1/2.6" 2.3M Pixel CMOS Sensor
- MIPI CSI-2 Interface
- Mono 8、Mono 10 Data Format
- Automatic exposure mode and Manual exposure mode
- Video streaming mode, Trigger mode
- Hardware and Software trigger source
- Support trigger delay, trigger number, and trigger interval, trigger count function
- Strobe synchronization
- ROI
- Flexible frame rate setting

Specifications:

Technical Details	
Sensor Type	CMOS
Shutter Mode	Global Shutter
Sensor	AR0234CSSM00SUKA0-CP

Color	MONO
Image Size	1/2.6"
Unit Cell Size	3 μ m × 3 μ m
Resolution	1920 (H) × 1200 (V)
Max Frame Rate	4lane mode: 1920 x 1200 @120fps 2lane mode: 1920 x 1200 @60fps
Gain	Analog Gain: 1.68x to 16x (3.47dB-24dB) Digital Gain: 1x to16x (0dB-24dB)
Exposure Time	≤ 1/ (max frame rate)
Shutter Mode	Auto Exposure, Auto Gain, Manual Exposure, Manual Gain
ADC Resolution	10 bit
Pixel Format	Mono8, Mono10
ROI	Support
Mirror Image	Mirror and Flip
Working Mode	Hardware Trigger, Software Trigger, Video streaming mode
Trigger Mode	Trigger Polarity, Trigger delay, Trigger number, Trigger interval, Trigger count
Strobe Mode	Strobe Output
Electrical characteristics	
Data Interface	MIPI CSI-2 Data Rate / lane: 900Mbps@10bit, 720Mbps@8bit lane num: 2 lane / 4 lane

Communication Interface	I2C 3.3V
Digital IO	Non-isolation IO: 1 Trigger in, 1 Strobe output, 3.3V Level
Power Supply	3.3V DC
Power Consumption	657mW@3.3V
Structure	
Size	Length * width * height = 29*29*7.5mm
Lens Mount	C-MOUNT03, S-MOUNT01 or M12 holder
Operating Conditions	
Temperature	Operating temperature: -30°C~ 60°C
Humidity	Humidity 95% or less

Interface & Pin List :

J9: Camera MIPI CSI-2		
Pin NO.	NAME	Remarks
1	VCC3V3	3.3V PWR IN
2	SDA	3.3V Level
3	SCL	3.3V Level
4	GND	
5	NC	
6	SYS_RSTn	System reset, 3.3V Level

7	GND	
8	MIPI_L3_P	
9	MIPI_L3_N	
10	GND	
11	MIPI_L2_P	
12	MIPI_L2_N	
13	GND	
14	MIPI_CK_P	
15	MIPI_CK_N	
16	GND	
17	MIPI_L1_P	
18	MIPI_L1_N	
19	GND	
20	MIPI_L0_P	
21	MIPI_L0_N	
22	GND	

J2: Function IO

Pin NO.	NAME	Remarks
1	Trigger In	Trigger Input, 3.3V
2	GND	
3	Strobe Out	Strobe Output, 3.3V

Dimension:

