

LI-AR2020-MIPI-079H





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INTRODUCTION

The LI-AR2020-MIPI-079H is a MIPI CSI-2 camera equipped with ON Semiconductor 1/1.8-inch 20 Mp CMOS sensor AR2020 which features advanced 1.4 μ m pixel stacked BSI Technology and enhanced NIR response on 850 nm and 940 nm wavelength. This camera outputs 10-bit RAW data.

SPECIFICATIONS

Sensor	ON Semiconductor 20 Mp CMOS sensor AR2020		
Optical Format	1/1.8"		
Resolution	5120 (H) x 3840 (V) (active pixels)		
Pixel Size	1.4 µm Back Side Illuminated (BSI)		
Output Format	10-bit RAW data		
Frame Rate	30 fps @ 5120 x 3840		
ISP	Not included		
Color / Mono	Color sensor		
Interface	4-lane MIPI D-PHY		
xDR (Extended Dynamic Range)	Support		
Power Consumption	Approximate 435 mW		
Operating Temp	TBD		
Storage Temp	TBD		
Weight	~ 25 g		
Part#	LI-AR2020-MIPI-079H		

APPLICATIONS

- Surveillance Camera
- Video Conferencing
- Machine Vision
- 3D and Stereo Imaging

LENS SPECIFICATIONS

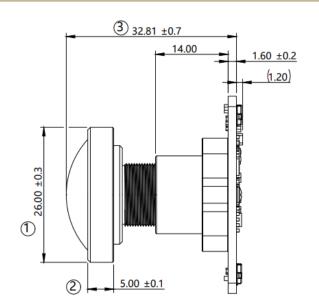
Effective Focal Length	4.5 mm		
Aperture, F/#	1.8		
	90° diagonal		
Field of View (FOV)	79° horizontal		
	63° vertical		
Optical Distortion	-2.8%		
Relative Illumination	> 50%		
IR Filter	650 nm IR cut filter		
Lens Mount	M12 x P0.5		

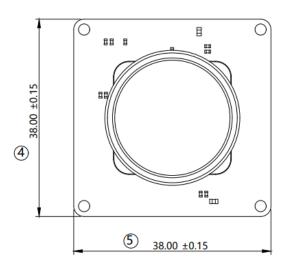


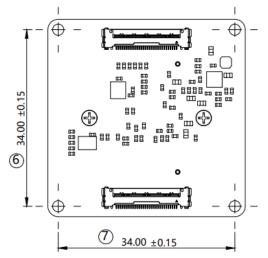




DIMENSIONS







		=======						
TOLERANCE TABLE								
LENGTH TOLE	TOLERANCE CHAMFER TOLE		OLERANCE	ANGLE TOLERANCE				
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance			
0.5 < X≤3	±0.1	0.5 < X≤3	±0.2	X≤10	±1°			
3 < X≤6	±0.1	3 < X≤6	±0.5	10 < X≤50	±30'			
6 < X≤30	±0.2	6 < X≤30	±1	50 < X≤120	±20'			
30 < X≤120	±0.3			120 < X≤400	±10'			
120 < X≤400	±0.5							
400 < X≤1000	±0.8	X > 30	±2	X > 400	±5'			
X > 1000	±1.2							

NOTE:

- ullet \otimes marked are important sizes.
- Tolerances for the unmarked refer to the Tolerance table.

Unit: mm



INTERFACE J1

Connector Part#: 20525-030E-02

■ Number of Positions: 30

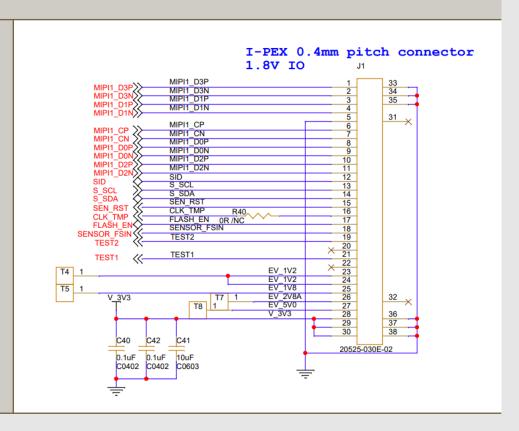
■ Pitch: 0.4 mm

■ Mating I-PEX Cable: FAW-1233

Sensor I2C Address: 0x6C (8-bit)

External Power Supply: 3.3V

■ 2.8V, 1.8V, 1.05V are generated from board.



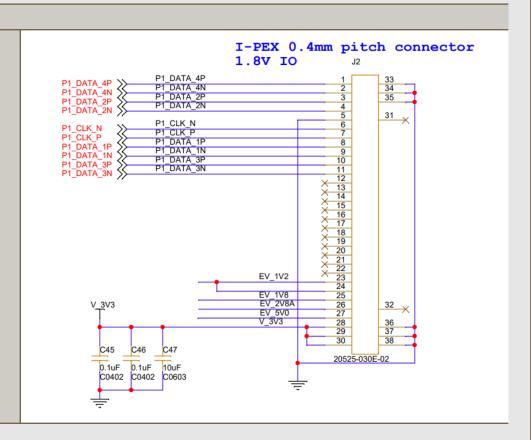
INTERFACE J2 (Not Used)

Connector Part#: 20525-030E-02

■ Number of Positions: 30

■ Pitch: 0.4 mm

■ Mating I-PEX Cable: FAW-1233





REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	18 Apr 2023

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