

LI-OV9282-MPI-JSDIR SPECIFICATION

**Rev 1.2
Leopard Imaging Inc.**

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LI-OV9282-MIPI-JSDIR SPECIFICATION

Version History

Version	Description	Release Date
1.0	First Release.	14. Mar. 2020
1.1	Deleted info quoted from sensor spec.	20. May. 2022
1.2	Deleted lens model info.	09. Aug. 2023

LI-OV9282-MIPI-JSDIR SPECIFICATION

Key Information

Module Part#		LI-OV9282-MIPI-JSDIR
Sensor Type		OV9282
Array Size		1296 (H) x 816 (V)
Power Supply	Core	1.2V
	Analog	2.8V
	I/O	1.8V
Lens Size		1/4"
F.NO		2.4
FOV		90° (HFOV)
Focal Length		2.91 mm
Focusing Distance		64.2 cm
TV Distortion		< -10 %
Sensitivity		TBD
Pixel Size		3 x 3 μm
IR Filter		780 nm IR filter
Sensor Temperature Range	Operating	-30°C to +85°C
	Stable Image	0°C to +50°C
Output Formats		10-bit RAW
Maximum Image Transfer Rate		1280 x 800: 120 fps
Max S/N Ratio		TBD
Scan Mode		Progressive
Power Requirement	Active	134 mW
	Standby	65 μA
	XSHUTDOWN	50 μA
Interface		MIPI
Color / Mono		Mono
Connector Part#		AXT624124

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Pin Assignment

No.	Name	Pin Type	Description
1	SDA	I/O	SCCB data
2	SCL	Input	SCCB input clock
3	DOVDD1.8V	Power	Power for I/O circuit
4	MCP	I/O	MIPI positive clock
5	MCN	I/O	MIPI negative clock
6	DGND	Ground	
7	MDP0	I/O	MIPI positive data [0]
8	MDN0	I/O	MIPI negative data [0]
9	DGND	Ground	
10	MDP1	I/O	MIPI positive data [1]
11	MDP1	I/O	MIPI negative data [1]
12	DGND	Ground	
13	ILPWM	I/O	Mechanical Shutter output indicator
14	GPIO2	I/O	General purpose I/O
15	AGND	Ground	
16	FSIN	I/O	Frame sync input
17	SID	input	SCCB ID select input
18	DVDD1.2V	Power	Power for digital circuit
19	XCLK	Input	System input clock
20	STROBE	I/O	Frame exposure output indicator
21	RESET	Input	Reset and power down (active low with internal pull down resistor)
22	AVDD2.8V	Power	Analog power
23	ULPM	I/O	ALS trigger indicator
24	GND	Ground	

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Mechanical Diagram

