#### Model:

LI-IMX219-MIPI-FF-NANO-H90 LI-IMX219-MIPI-FF-NANO-H136 LI-IMX219-MIPI-FF-NANO-H145

> Rev 1.5 Leopard Imaging Inc.

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## **Version History**

Version	Description	Release Date
1.0	First release.	16. Mar. 2019
1.1	Added H90 and H135 version	22. Mar. 2019
1.2	Updated the dimensions of H90 and H135 modules.	14. Apr. 2019
1.3	Removed H135 module.	26. Apr. 2019
1.4	Added H136 module.	18. Oct. 2019
1.5	Deleted info quoted from sensor spec.	25. May. 2022



## **Key Information**

Module Part#			LI-IMX219-MIPI-FF-NANO
Compatible Platform			NVIDIA® Jetson Nano <sup>TM</sup> Developer Kit
		H90	150.0 (L) x 25.0 (W) x 15.27 (H) mm
Module Size	ze e	H136	150.0 (L) x 25.0 (W) x 15.3 (H) mm
		H145	150.0 (L) x 25.0 (W) x 14.1 (H) mm
Sensor Type		<u> </u>	Sony IMX219 8.08MP Color sensor
Active Pixels			3280 (H) x 2464 (V)
Image Size			Diagonal 4.60 mm (Type 1/4.0)
F/No.			2.6 (H90) / 2.0 (H136) / 2.5 (H145)
Eggal I and	Focal Length		2.3 mm (H90) / 1.58 mm (H136) / 1.55 mm
rocal Leng			(H145)
FOV			90°(H) / 136°(H) / 145°(H)
TV Distortion			< -10% (H90) / < -15%(H136) / < -15%
			(H145)
Focusing Range			30 cm ~ Infinity
Pixel size			1.12 x 1.12 μm
IR Cutter Filter			Yes
Temperatur	re C	perating	-20°C to +60°C
Range		torage	-30°C to +80°C
Data Output Interface			CSI-2 MIPI 2-lane
Maximum Image Transfer Rate		sfer Rate	3280 x 2464 @ 21 fps
Mating Connector	Part#		1-1734248-5
	Number of	Positions	15
	Pitch		0.039" (1.00mm)





### **Pin Assignment**

No.	Name	Pin Type	Description
1	GND	Ground	
2	MDN0	0	MIPI data negative output
3	MDP0	0	MIPI data positive output
4	GND	Ground	
5	MDN1	0	MIPI data negative output
6	MDP1	0	MIPI data positive output
7	GND	Ground	
8	MCN	O	MIPI clock negative output
9	MCP	O	MIPI clock positive output
10	GND	Ground	
11	RESET	I	Reset
12	FSTROBE	0	Strobe output
13	SCL	I	
14	SDA	I/O	
15	VCC3.3V	Power	



#### **Mechanical Diagram**











