

Datasheet

oToBrite Electronics, Inc



oToCAM264-N73M

Description	Release Date	
Draft Version	Apr. 30, 2021	
Update Product Image	Jun. 21, 2021	
	Draft Version	

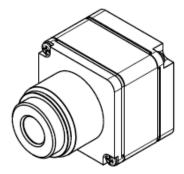
1. General Description

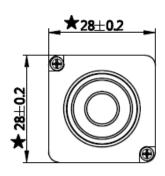
The oToCAM264-N73M is an automotive grade camera for the application of autonomous driving and CMS. It uses high sensitive CMOS sensor to perform good image quality for the detection purpose of the system product.

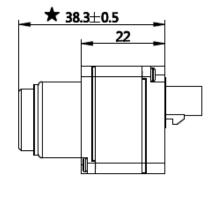
2. Product specification

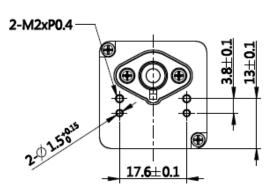
No.	Item	Specification
1	Image sensor	CMOS (Sony IMX 390)
2	Optical Format	1/2.7"
3	Pixel Size	3.0μm (H) × 3.0μm (V)
4	Camera number of pixels	2M (1920 (H) × 1080 (V))
5	View angle(H)	73°
6	Resolution	TBD
7	Color filter array	RGGB
8	Output Interface	GMSL2 with POC
9	Output Formats	12-bit raw data (By setting)
10	S/N ratio	48.5 dB
11	Lens F No.	F2.8
12	Power source (POC)/Typical	DC 6~12V/6V
13	Startup time of power in	Within 200ms
14	Frame rate	30 fps (By setting)
15	Exposure Control	N/A
16	Serializer	MAX9295
17	Camera Current Consumption	\leq 150mA @12V
18	Operating Temperature	-40°C ~ +85℃
19	Storage temperature Range	-40°C ~ +95°C
20	Waterproof	ІР67/ІР69К
21	Dimension	28*28*38.3 mm (exclude Fakra connector)
22	Weight	39.5g
23	Product Lead Time	Sample: 1 month after getting firm order SOP: 1 months after getting firm order (assumption: customer has released 6 months rolling forecast)

3. Outline Drawing









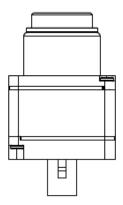


Figure 1. oToCAM264-N73M Diagram

4. Interface, Cables and Connectors (Male and Female)

4.1 Connectors: Amphenol SMB1251Y3-002-TT5GP-50

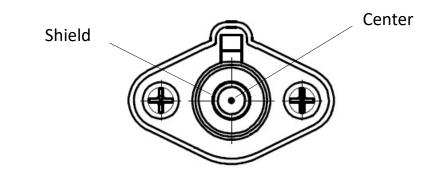


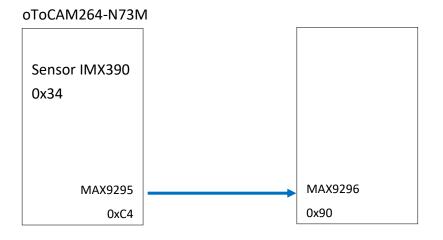
Figure 2. Amphenol SMB1251Y3-002-TT5GP-50

4.2 Pin definition:

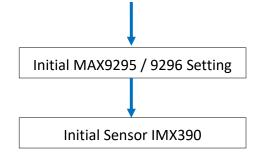
Pin No.	Signal Name	Operation Voltage and Current
Center	DOUT	Min. 0.3V, Max. 0.5V
	PWR	Typ. 180mA @6V / 25°C
Shield	Shield GND	

5. Applications

5.1 I2C ID Address



5.2 Initialization



5.3 Deserializer (MAX9296) Settings

(The registers file will be provided under NDA and/or samples purchased)

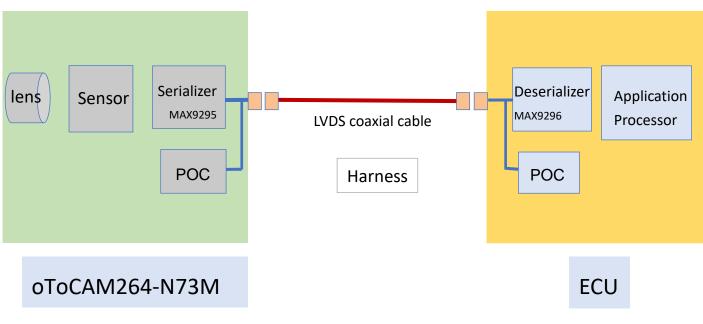
5.4 Sensor (IMX390) Register Settings

(The sensor registers file will be provided under NDA and/or samples purchased)

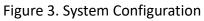
6. Special Note

There is no ISP (Image Signal Processor) inside this camera. Raw image data 12bits are captured and transmitted from camera through coax cable.

Usually, Gamma curve is applied to get 8-bit image to improve dynamic range for application.



7. System Configuration (TBD)



MAX9296 must be used as Deserializer in ECU for connecting oToCAM264-N73M.

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