



LEOPARD
IMAGING

LI-AR0233-GMSL3-130H



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INTRODUCTION

The LI-AR0233-GMSL3-130H is equipped with ON SEMI 2.6MP automotive sensor AR0233AT, and Maxim GMSL3 serializer. This camera outputs 2048 x 1280 RAW image data.

SPECIFICATIONS

Sensor	ON SEMI 2.6MP CMOS Image Sensor AR0233AT
Optical Format	1/2.5"
Resolution	2048 (H) x 1280 (V) (active pixels)
Pixel Size	3.0 x 3.0 μ m
Output Format	RAW data
Maximum Frame Rate	45 fps @ 2048 x 1280 60 fps @ 1920 x 1080
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim GMSL3 (12 Gbps)
GMSL Speed	12 Gbps Forward Channel
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
IP Rating	TBD
Power Consumption	61 mA @ 12 VDC (2048 x 1280 @ 30 fps)
Operating Temp	TBD
Storage Temp	TBD
Weight	TBD
Part#	LI-AR0233-GMSL3-130H

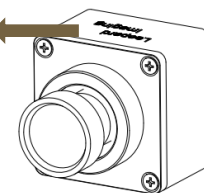
APPLICATIONS

- Automotive
 - ◆ Automotive ADAS
 - ◆ Automotive Surround and Rear-View
 - ◆ ADAS + Viewing Fusion

DEFAULT IMAGING DIRECTION

- The logo "Leopard Imaging" is on the TOP.

Top (Default Imaging Direction)

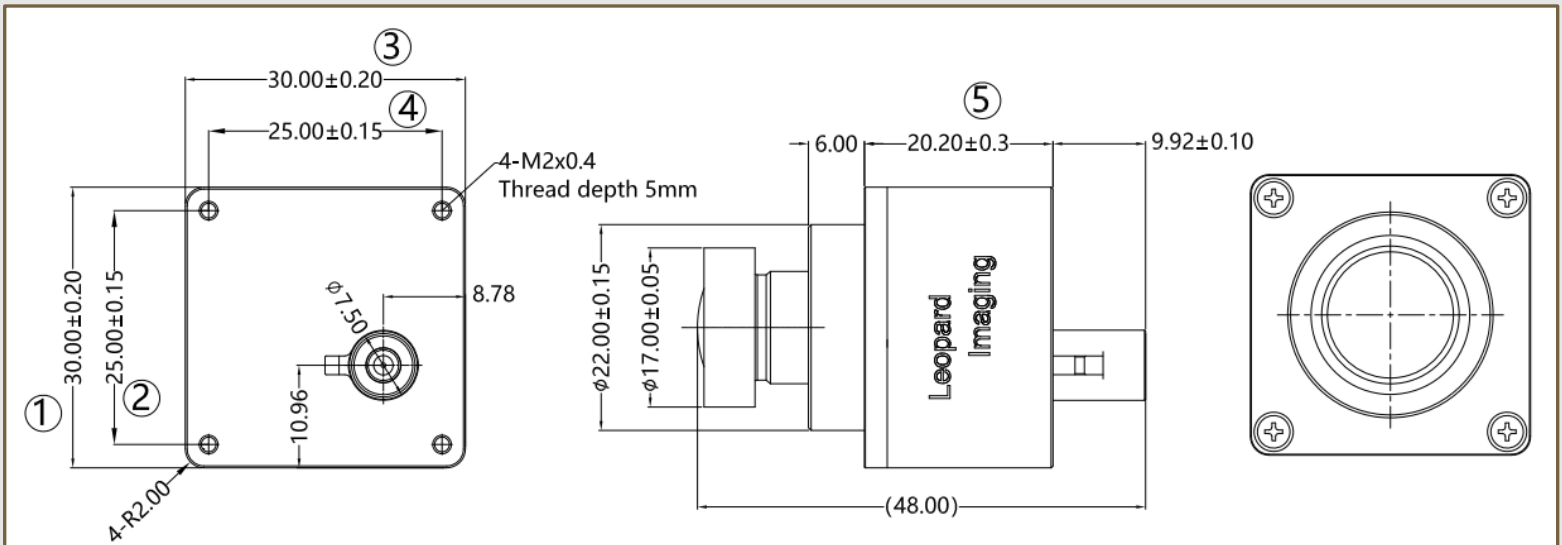


LENS SPECIFICATIONS

Focal Length	2.9 mm
Aperture, F/#	1.8
Field of View (FOV)	130° horizontal
Distortion (f-tan θ)	-42% @ HFOV
Relative Illumination	82% @ HFOV
IR Cut Filter	700 nm IR cut filter
Lens Mount	M12 x 0.5



DIMENSIONS



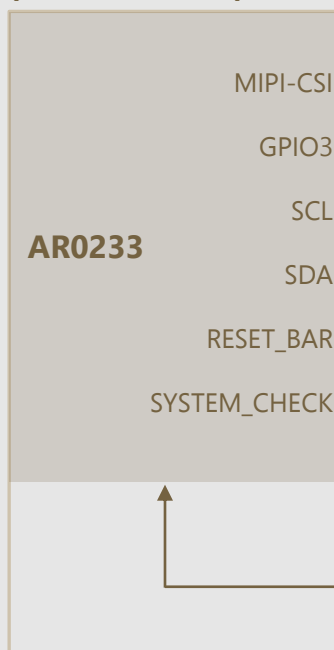
NOTE:

- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked are ± 0.3 mm.

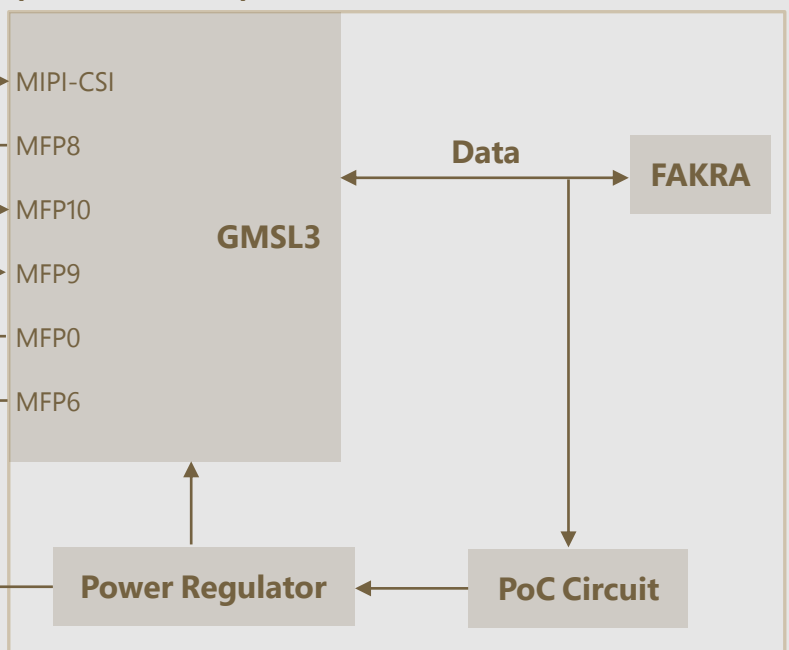
Unit: mm

PINOUT CONNECTIONS

(I2C: 0x20 8-bit)



(I2C: 0x84 8-bit)



REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	27 Oct 2022
0.2	1. Updated power consumption. 2. Replaced 3D images with actual pics. 3. Deleted USB30 page.	18 Oct 2023

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