



LEOPARD
IMAGING

LI-AR0521C-GMSL2-086H



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INTRODUCTION

The LI-AR0521C-GMSL2-086H is equipped with ON Semiconductor 5.1MP CMOS Image RGB sensor AR0521 and Maxim GMSL2 Serializer MAX9295A/B. This camera outputs 2592 x 1944 RAW data.

KEY FEATURES

Sensor	ON Semiconductor AR0521 5.1M CMOS RGB Sensor
Optical Format	1/2.5"
Active Pixels	2592 (H) x 1944 (V)
Pixel Size	2.2 x 2.2 μ m (BSI)
Output Format	10-bit, 12-bit RAW
Serializer	Maxim MAX9295A/B
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
Power Consumption	72 mA @ 12V DC (2600 x 1952 @ 23 fps)
Operating Temp	TBD
Storage Temp	TBD
IP Rating	IP67
Weight	~ 48 g
Part#	LI-AR0521C-GMSL2-086H

APPLICATIONS

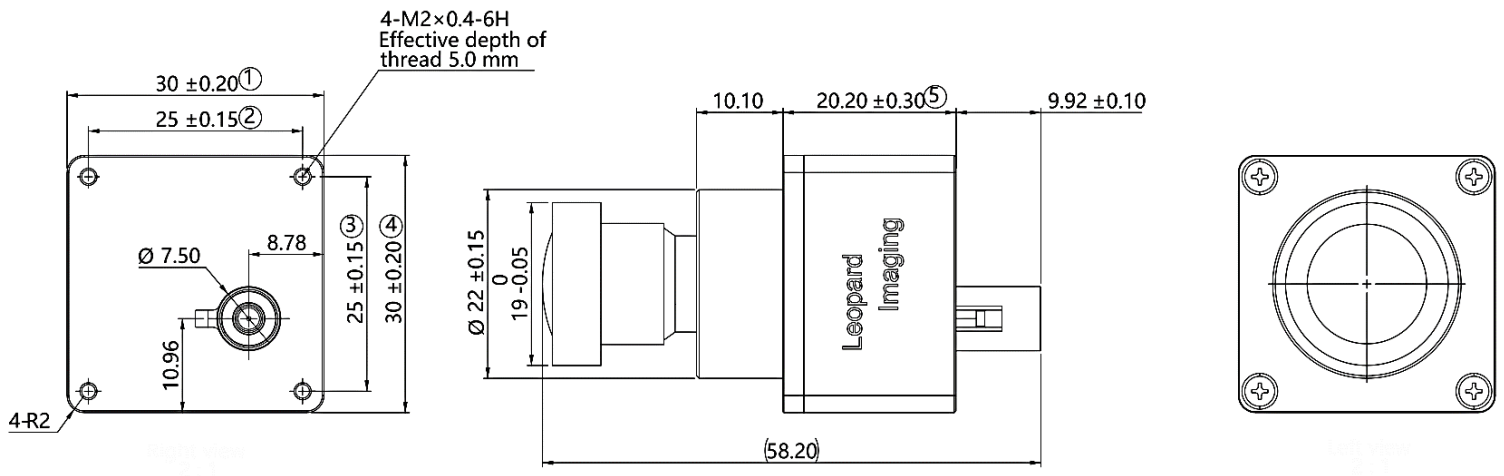
- Video Surveillance
- High Dynamic Range Imaging

LENS SPECIFICATIONS

Focal length	3.939mm
Aperture, F/#	2.20 \pm 5%
Field of View (FOV)	110.1° diagonal
	86° horizontal
	63.6° vertical
TV Distortion	-9%
Relative Illumination	54%
IR Filter	650 nm IR cut filter
Mount	M12 x P0.5



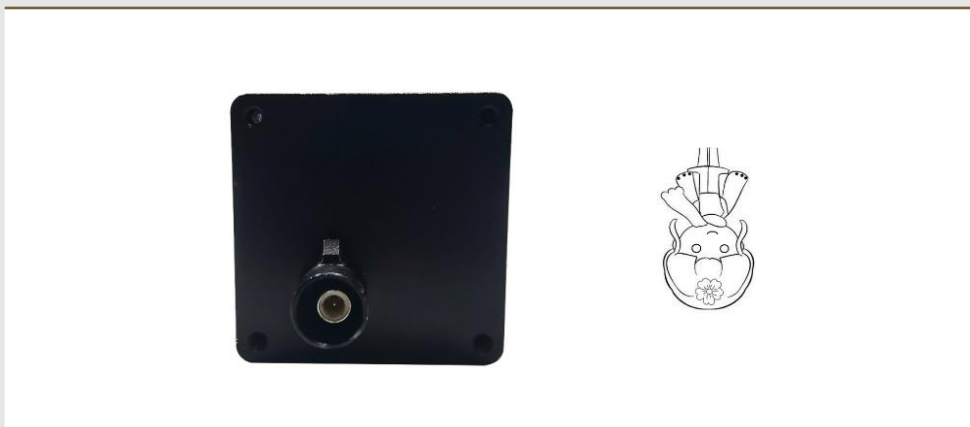
DIMENSIONS



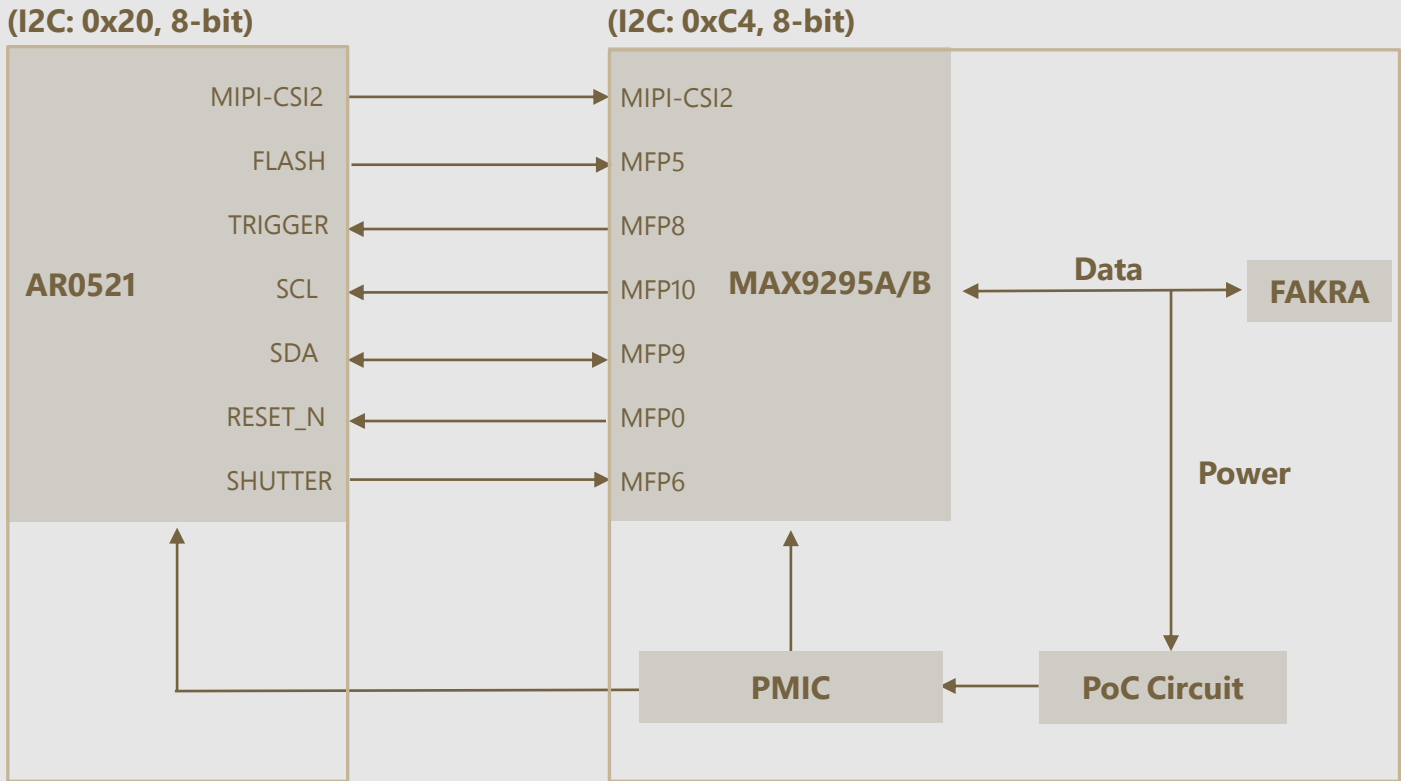
NOTE:

- \otimes marked are important sizes.
- Tolerances for others unmarked are ± 0.3 mm.
- All materials are compliant with RoHS requirements.
- Unit: mm

IMAGE ORIENTATION



● SYSTEM BLOCK DIAGRAM



USB3.0 CAMERA KIT

LI-GMSL2-USB



LI-AR0521C-GMSL2-086H can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-AR0521C-GMSL2-086H**

KEY FEATURES

- USB 3.0 Super Speed support
- UVC compliant
- Allows customization
- 12 VDC Power Supply
- Weight:
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Resolution: 2600 x 1952 @ 23 fps
- Power consumption: 72 mA @ 12V DC
- Compatible with Windows, Linux OS and other OS which have UVC drivers

BOM

#	Items	QTY
1	LI-AR0521C-GMSL2-086H	1
2	LI-GMSL2-USB	1
3	3-Meter Fakra Cable	1
4	12 VDC Power Supply	1
5	USB3.0 Cable	1



SDK SUPPORTED

- Camera Tool Source Code in C#
- Capture & Display
- Register Access Function

● REVISION HISTORY

Revision	Description	Release date
1.0	First Release	04. Jan. 2021
1.1	Updated the enclosure	06. Feb. 2021
1.2	1. Updated pictures, 2D, lens info, weight, IP, Power Consumption, temp info and System Block Diagram. 2. Added Image Orientation and USB3.0 CAMERA KIT.	21. Jun. 2024

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