



LEOPARD
IMAGING

LI-AR0827-GM2B-120H



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

INTRODUCTION

The LI-AR0827-GM2B-120H is a high resolution HDR color FAKRA camera optimized for ADAS systems and viewing applications. It features ON Semiconductor advanced automotive 8.3MP CMOS RGGB image sensor AR0827, along with ADI GMSL2 serializer MAX96717G. The camera supports a 4K HDR array with LED flicker mitigation, delivering 60 fps and up to 150 dB dynamic range, making it ideal for capturing scenes in both low light and extremely bright illumination.

SPECIFICATIONS

Frame Rate	60 fps @ 3840 x 2160
Output Format	10, 12, 16, 24 and 28-bit RAW data
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Sensor	ON Semiconductor AR0827 8.3MP CMOS RGGB Sensor
Optical Format	1/1.8"
Pixel Size	2.1 x 2.1 μ m
Color / Mono	Color
Resolution	3840 (H) x 2160 (V) (active pixels)
Serializer	ADI GMSL2 MAX96717G
Connector	FAKRA Z TYPE
Power Supply Range	9 ~ 19 VDC
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
Ingress Protection	IP69K
Weight	TBD

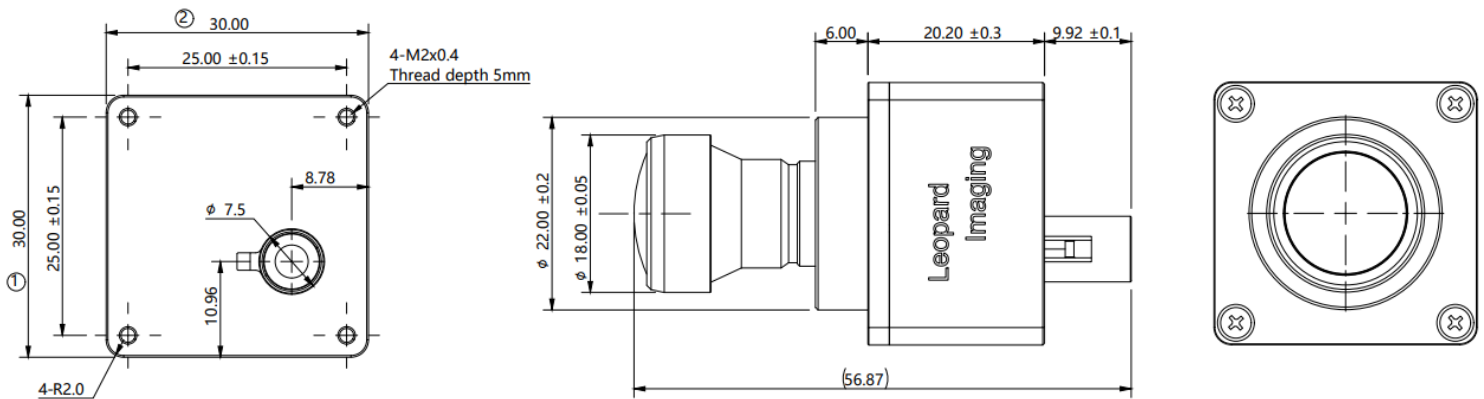
APPLICATIONS

- Automotive Front Camera (ADAS)
- Mirror Replacement (CMS)
- ADAS + Viewing Fusion
- High Dynamic Range Imaging
- Surround View + Sensing
- In-Cabin Occupancy Monitor

LENS SPECIFICATIONS

Effective Focal Length	3.9 $\pm$ 2% mm
Aperture, F/#	1.6 $\pm$ 5%
Field of View (FOV)	120° horizontal
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5

DIMENSIONS



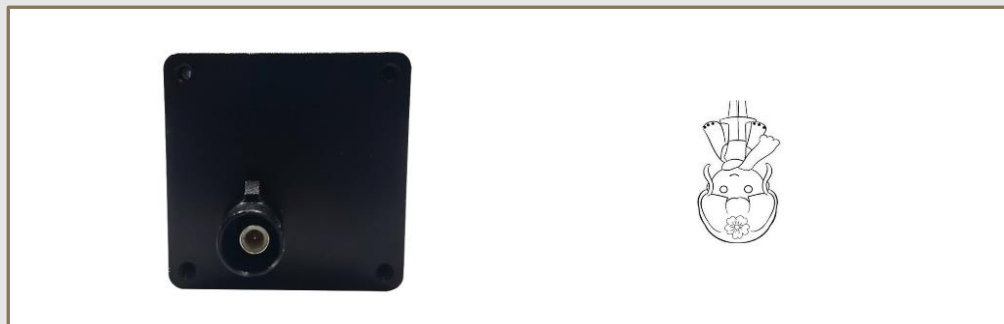
TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X ≤ 3	±0.1	0.5 < X ≤ 3	±0.2	X ≤ 10	±1°
3 < X ≤ 6	±0.1	3 < X ≤ 6	±0.5	10 < X ≤ 50	±30'
6 < X ≤ 30	±0.2	6 < X ≤ 30	±1	50 < X ≤ 120	±20'
30 < X ≤ 120	±0.3	X > 30	±2	120 < X ≤ 400	±10'
120 < X ≤ 400	±0.5			X > 400	±5'
400 < X ≤ 1000	±0.8				
X > 1000	±1.2				

NOTE:

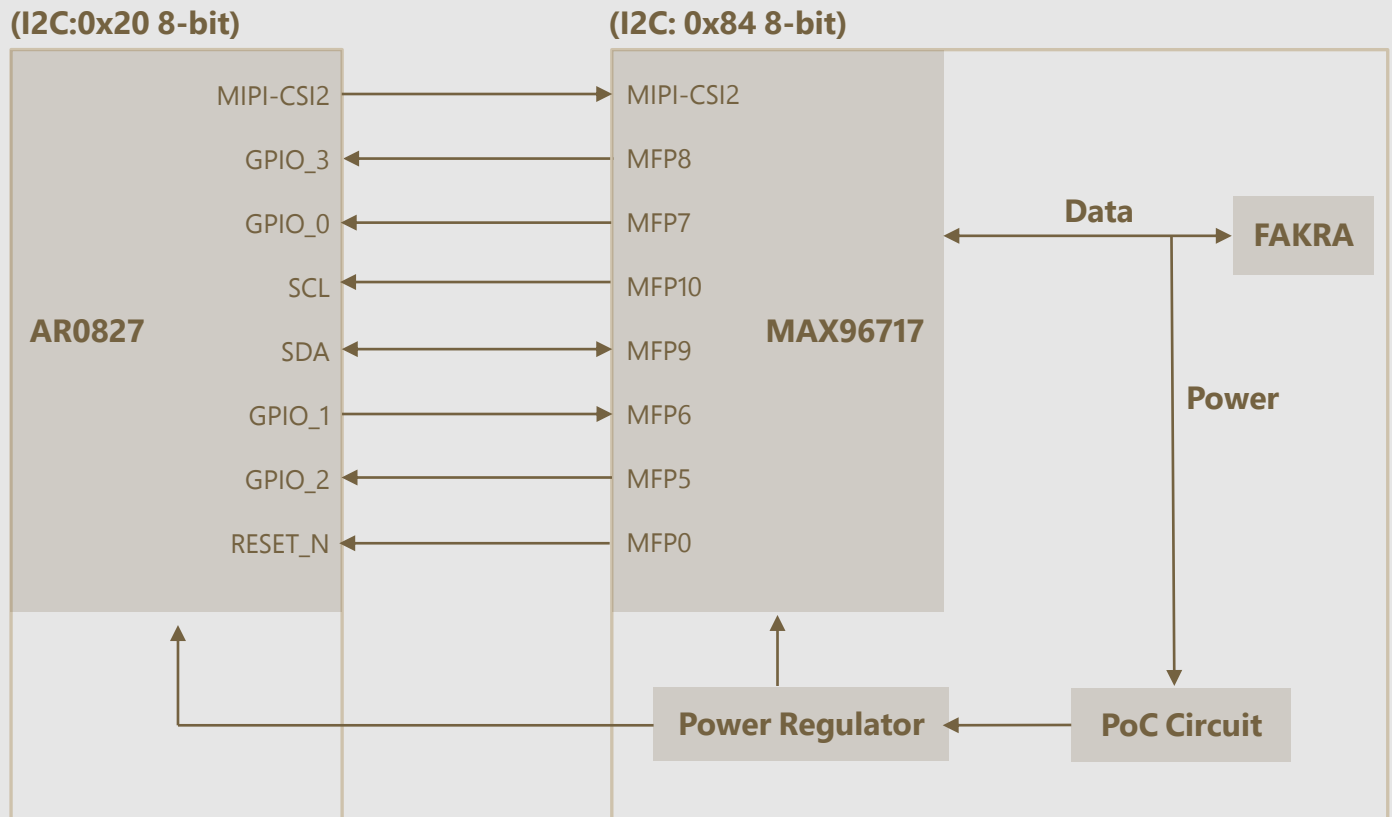
- ⊗ marked are important sizes.
- Tolerances for others unmarked refer to the Tolerance table.
- All materials are compliant with RoHS & REACH requirements.

Unit: mm

IMAGING ORIENTATION



SYSTEM BLOCK DIAGRAM



● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	12 Oct 2026

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Website: www.leopardimaging.com

