



LEOPARD
IMAGING

LI-AR0231-GMSL2-CFM-176H-000



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INTRODUCTION

The LI-AR0231-GMSL2-CFM-176H-000 is equipped with ON Semiconductor 1/2.7" 2.3MP CMOS image sensor AR0231, Maxim GMSL2 serializer MAX9295A/B and an Inertial Measurement Unit (IMU). This camera outputs RAW data.

KEY FEATURES

Sensor	ON SEMI 2.3MP RCCB Sensor AR0231
Optical Format	1/2.7"
Maximum Resolution	1928(H) x 1028 (V)
Compatible Platform	Qualcomm SA8155
Pixel Size	3.0 x 3.0 μ m
Data Format	12-bit Uncompressed Linear 20-bit Uncompressed HDR 10-bit Companded Linear 16-bit, 14-bit, or 12-bit Companded HDR
Color / Mono	Color
Maximum Frame Rate	1928 x 1208 @ 60 fps (2-exposures and Linear) 1928 x 1208 @ 40 fps (3-exposure)
ISP	N/A
IMU	YES
Serializer	Maxim MAX9295A/B
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
IP Rating	Not waterproof
Power Consumption	105 mA @ 12 VDC (1920 x 1020 @ 26 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 49 g
Part#	LI-AR0231-GMSL2-CFM-176H-000



APPLICATIONS

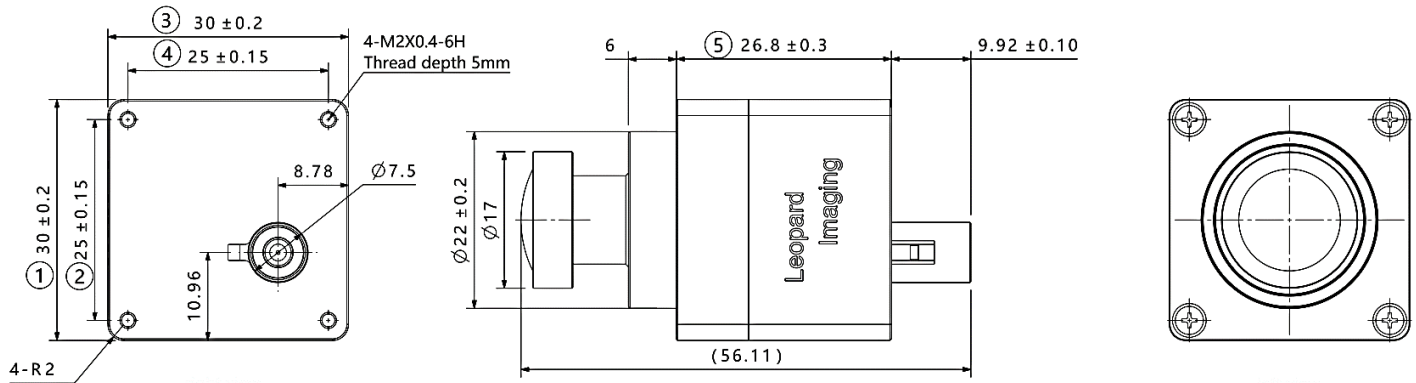
- Automotive ADAS
- 1080p30 Video Applications
- ADAS + Viewing Fusion

LENS SPECIFICATION

Focal Length	2.16 mm
Aperture, F/#	2.0
Field of View (FOV)	176° horizontal
F-theta Distortion	-8.5%
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS



NOTE:

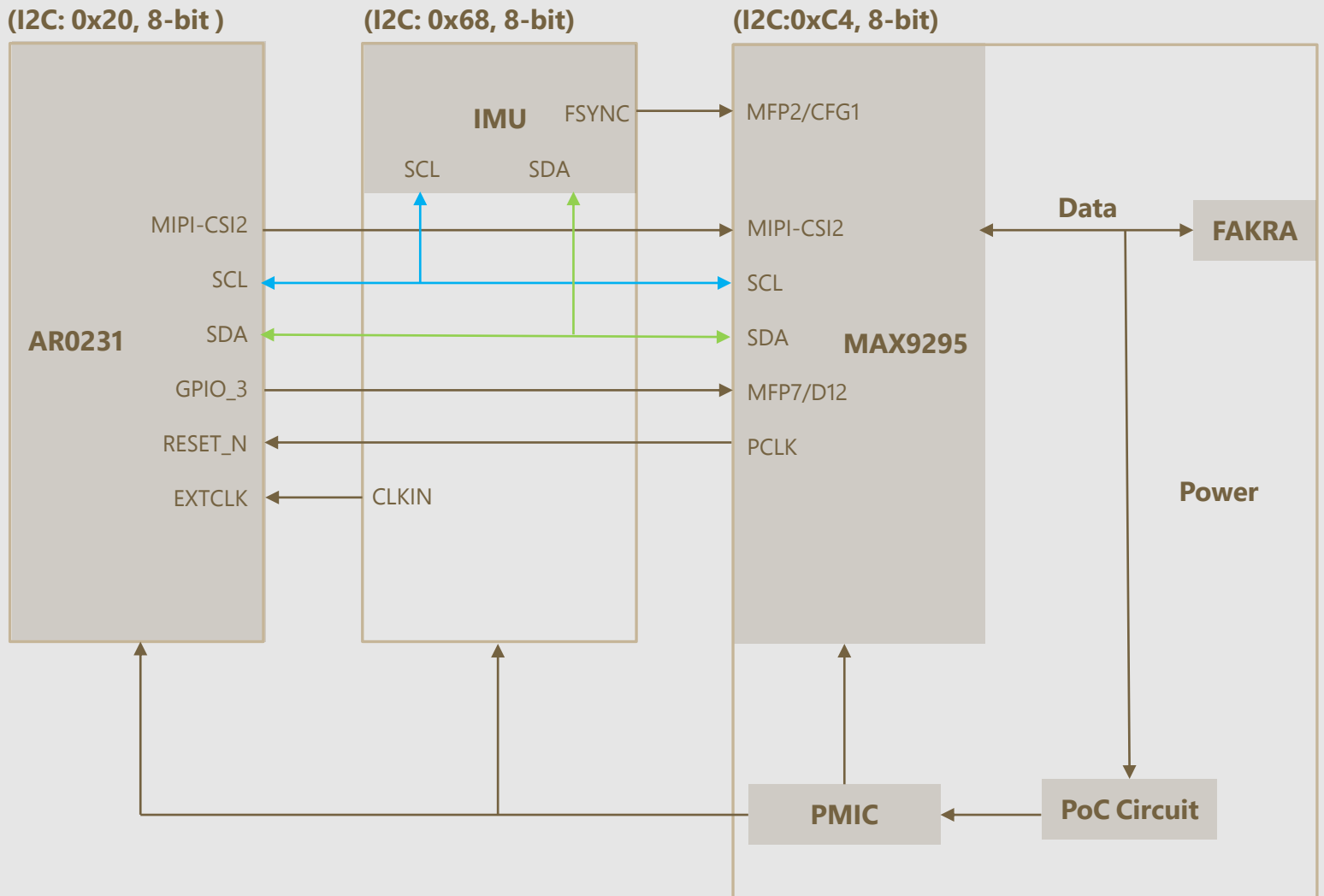
- Other unmarked tolerances refer to the tolerance table.
- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Unit: mm

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
$0.5 < X \leq 3$	± 0.1	$0.5 < X \leq 3$	± 0.2	$X \leq 10$	$\pm 1^\circ$
$3 < X \leq 6$	± 0.1	$3 < X \leq 6$	± 0.5	$10 < X \leq 50$	$\pm 30'$
$6 < X \leq 30$	± 0.2	$6 < X \leq 30$	± 1	$50 < X \leq 120$	$\pm 20'$
$30 < X \leq 120$	± 0.3	$X > 30$	± 2	$120 < X \leq 400$	$\pm 10'$
$120 < X \leq 400$	± 0.5			$X > 400$	$\pm 5'$
$400 < X \leq 1000$	± 0.8				
$X > 1000$	± 1.2				

IMAGING ORIENTATION



SYSTEM BOLCK DIAGRAM



- REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	09 Jul 2024

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