LEOPARD IMAGING

LI-IMX775-IR-OMS-GM2B-133H



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INTRODUCTION

LI-IMX775-IR-OMS-GM2B-133H is a GMSL2 camera based on the Sony 1/2.62" 5MP global shutter RGB-IR IMX775 sensor. It integrates the ADI MAX96717 serializer and 4 onboard IR LED emitters, outputting RAW RGB-IR data for day/night applications..

SPECIFICATIONS

Maximum Frame Rate	30fps @ 2592 x 1944
Sensor	Sony Diagonal 6.85 mm Sensor IMX775
Optical Format	1/2.62"
Color / Mono	RGB-IR (combined RGB + Near-Infrared)
Pixel Size	2.1 µm× 2.1 µm
Shutter	Global shutter
Output Format	8-bit / 10-bit / 12-bit RAW data
Resolution	2592 (H) x 1944 (V) (active pixels)
Serializer	ADI MAX96717
ISP	Not included
IR LED	Included
FAKRA Connector	FAKRA Z TYPE
Power Supply Range	9 ~ 19 VDC
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
IP Rating	N/A
Weight	~135 g

APPLICATIONS

- Autonomous Driving
- Driver Monitoring System
- Occupant Monitoring System
- In-Cabin Monitoring System

LENS SPECIFICATIONS

Focal Length	2.42 ± 5% mm
Aperture, F/#	2.2 ± 5%
Field of View (FOV)	133˚ horizontal
IR Filter	Visible + 940 nm Dual bandpass filter
Lens Mount	M12 x P0.5





Infrared LED SPECIFICATIONS

Wavelength	940 nm
Half Angle	40°
QTY on Camera	4
Qualifications	AEC-Q101
Corrosion Robustness Class	3B

NOTE:

- Avoid hitting LED when camera assembly and operating.
- Keep wide clear upon LED when camera operating.

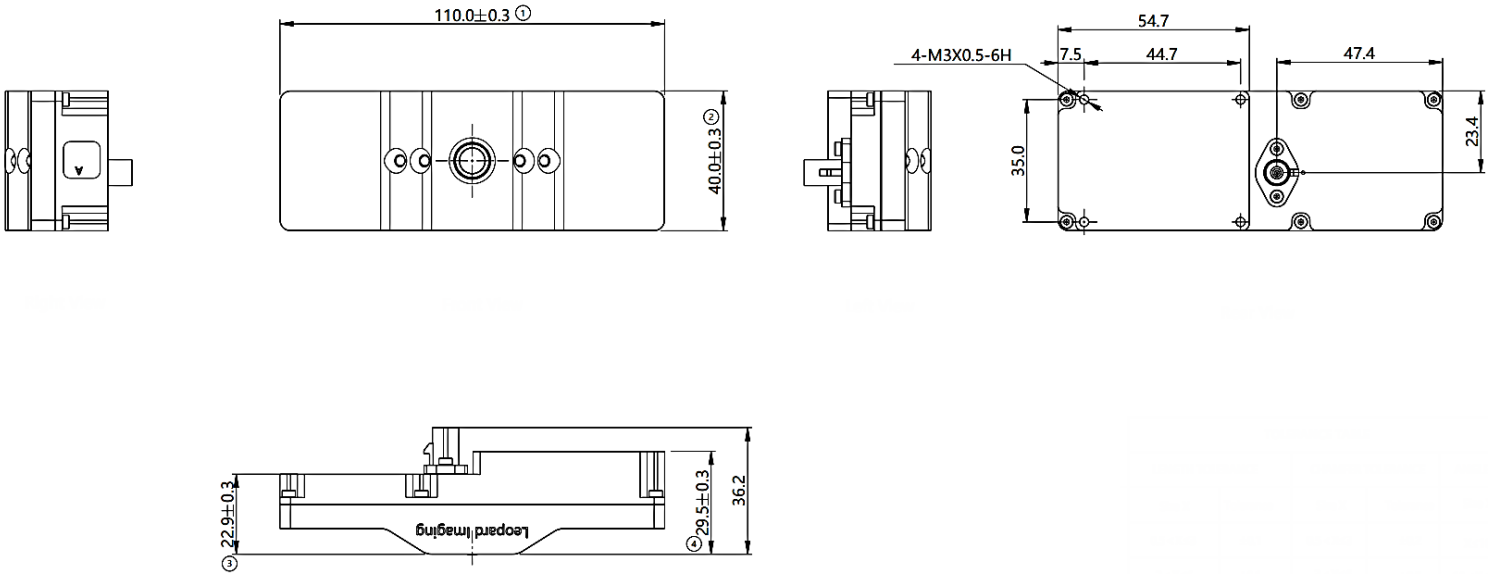
Infrared LED Safety and Certificates

Standard	**IEC 62471: 2006**

Infrared LED Maintenance

- Make maintenance after a period of use, such as cleaning dust.
- Return to factory for repair when meeting LED work unnormal.

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:

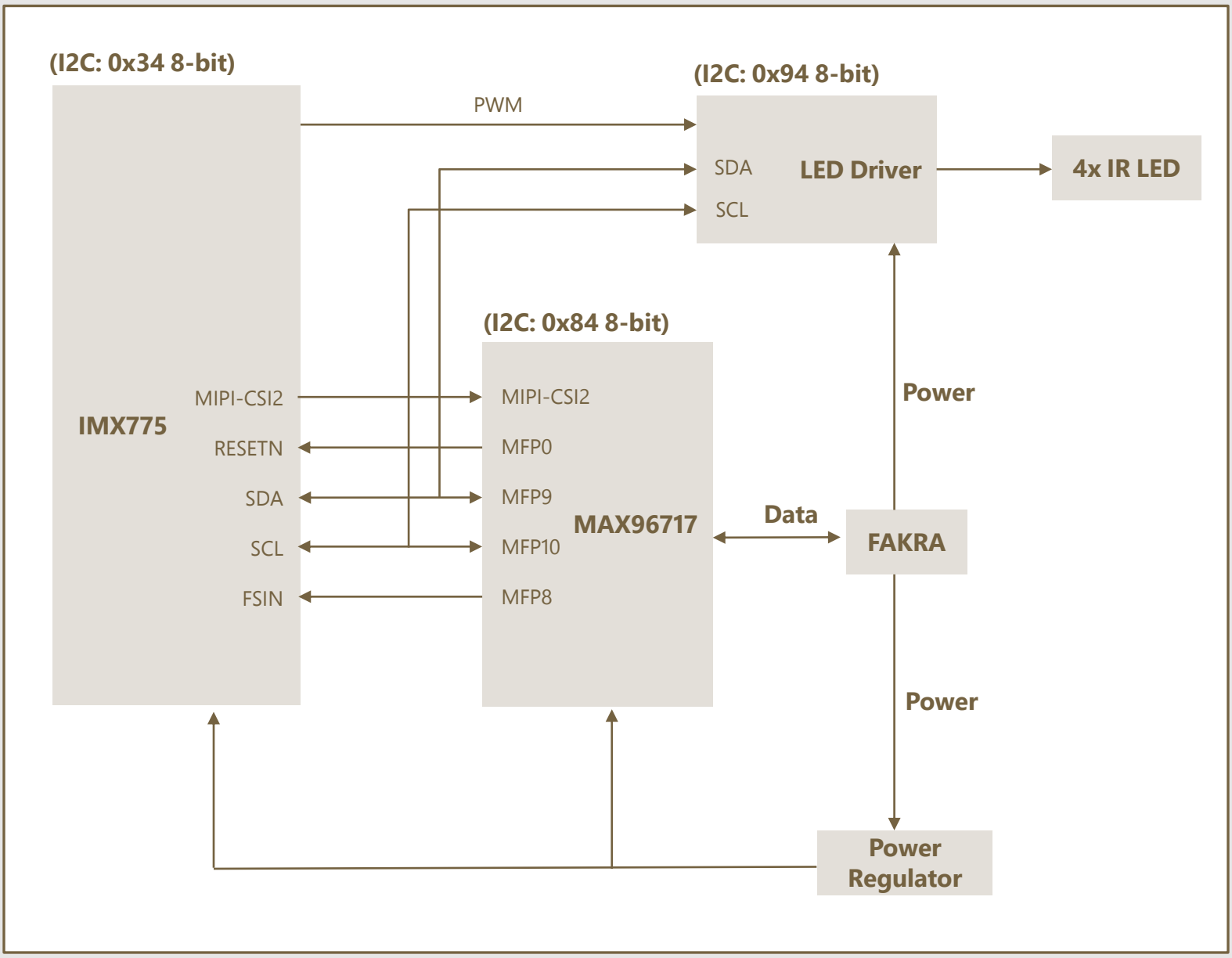
- ⊗ marked are important sizes.
- Tolerances for others unmarked refer to the Tolerance table.
- All materials are compliant with RoHS requirements.
- Unit: mm

IMAGE ORIENTATION





SYSTEM BLOCK DIAGRAM



REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	18 Aug 2026
0.2	Updated Certificates.	02 Nov 2026

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