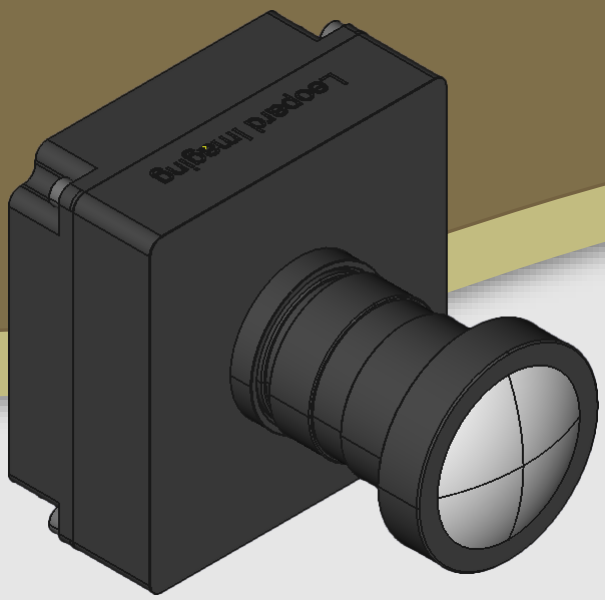
LEOPARD IMAGING

LI-IMX585-GM2B-110H



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INTRODUCTION

The LI-IMX585-GM2B-110H is a high resolution color GMSL2 camera. It features with Sony STARVIS2 Diagonal 12.84 mm (Type 1/1.2) CMOS active pixel type solid-state image sensor IMX585 which has low power consumption and achieves high sensitivity, low dark current and no smear. It also integrates the ADI GMSL2 serializer MAX96717G. This camera outputs RAW image data.

KEY FEATURES

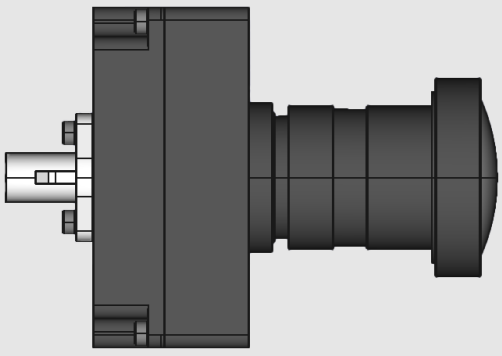
Maximum Frame Rate	12 bit: 60 fps @ all-pixel scan mode 10 bit: 90 fps @ all-pixel scan mode
Output Format	10-bit / 12-bit / 16-bit RAW
Sensor	Sony STARVIS2 Diagonal 12.84 mm CMOS Active Pixel Type Sensor IMX585
Optical Format	1/1.2"
HDR (High Dynamic Range)	Supported
Pixel Size	2.9 x 2.9 µm
Color / Mono	Color
Resolution	3856 (H) x 2176 (V) (active pixels)
Serializer	ADI MAX96717G
Connector	FAKRA Z TYPE
Operating Temp	TBD
Storage Temp	TBD
Power Supply Range	9 ~ 19 VDC
Power Consumption	TBD
Ingress Protection	No waterproof
Weight	TBD

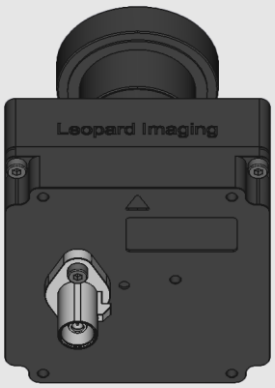
APPLICATIONS

- IoT
- Drone
- Robots

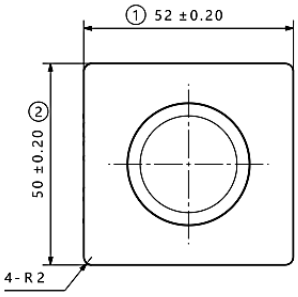
LENS SPECIFICATIONS

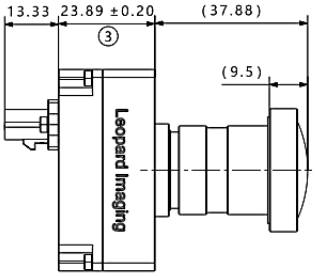
Focal Length	5.9 mm
Aperture, F/#	2.9
Field of View (FOV)	110˚ horizontal
Distortion	0.2% F-θ
IR Filter	650 nm IR cut filter
Lens Mount	M20 x P0.5

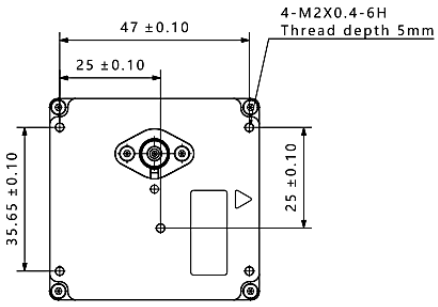


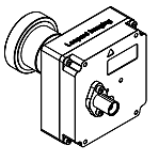


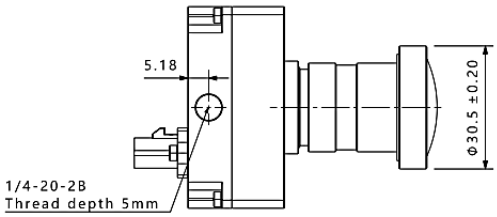
DIMENSIONS









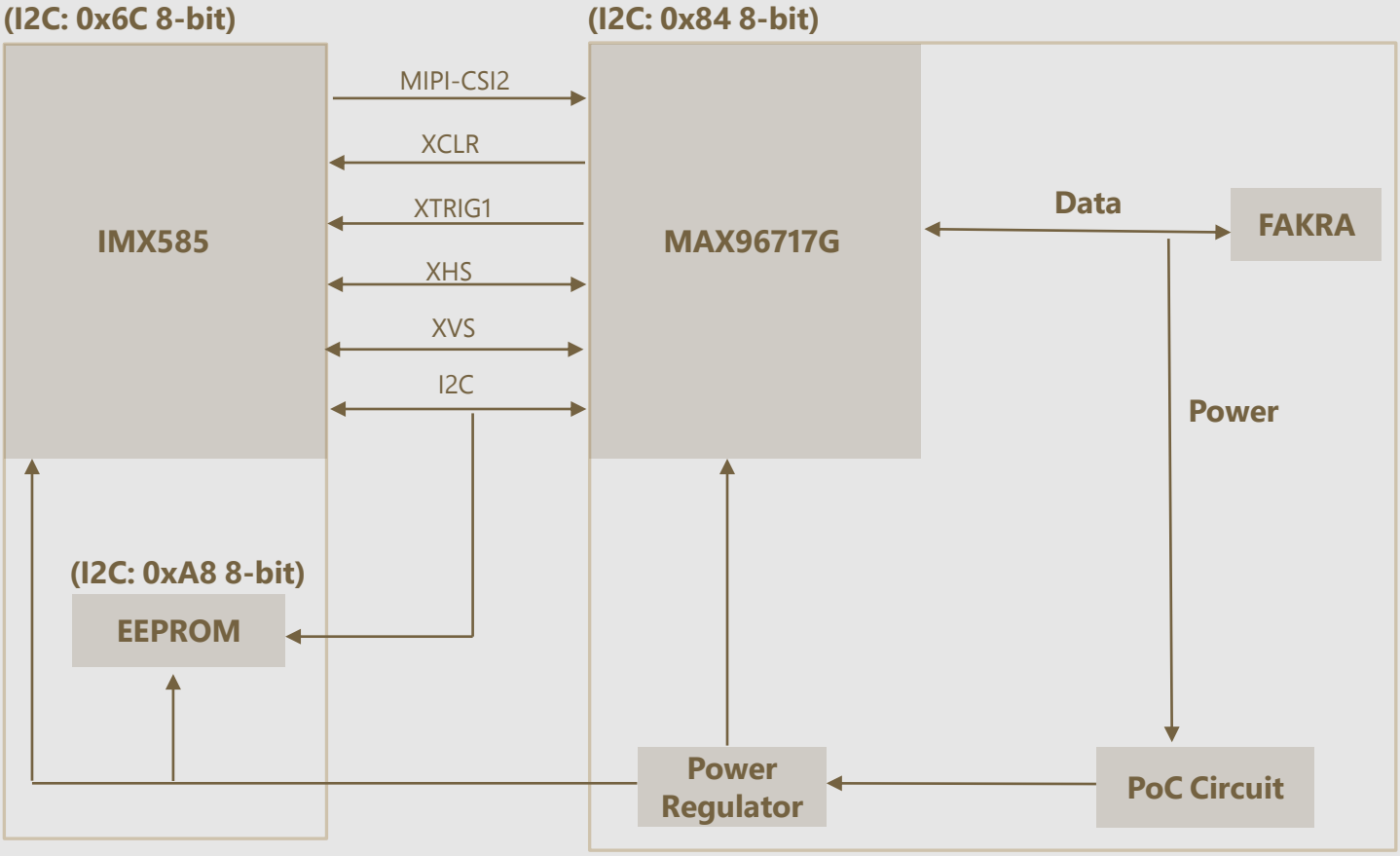


TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X≤3	±0.1	0.5 < X≤3	±0.2	X≤10	±1°
3 < X≤6	±0.1	3 < X≤6	±0.5	10 < X≤50	±30'
6 < X≤30	±0.2	6 < X≤30	±1	50 < X≤120	±20'
30 < X≤120	±0.3	X > 30	±2	120 < X≤400	±10'
120 < X≤400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

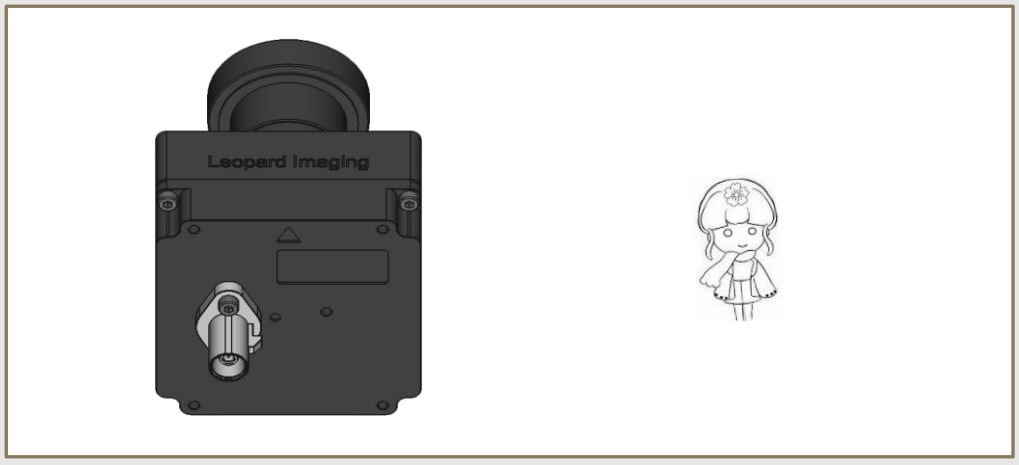
NOTE:

- ⊗ marked are important sizes.
- Tolerances for others unmarked refer to the tolerance table.
- Unit: mm

SYSTEM BLOCK DIAGRAM



IMAGING ORIENTATION



REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	24 Aug 2026

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