



LEOPARD
IMAGING

LI-OX03F10-OAX46-GM2E-195H



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INTRODUCTION

The LI-OX03F10-OAX46-GM2E-195H is equipped with OmniVision CMOS high-definition high dynamic range CMOS sensor OX03F10, automotive ISP OAX4600 and Maxim GMSL2 serializer MAX96719B. This camera outputs YUV data.

SPECIFICATIONS

Sensor	OmniVision high-definition high dynamic range sensor OX03F10
Optical Format	1/2.44"
Color / Mono	Color sensor
Resolution	1920 (H) x 1536 (V) (Based on ISP binary)
Pixel Size	3.0 x 3.0 μm
Output Format	YUV422
Frame Rate	Normal Mode: 30 fps @ 1920 x 1536 Always-On Mode: 10 fps @ 1920 x 1536
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
ISP	OMNIVISION automotive ISP OAX4600
Serializer	Maxim MAX96719B
Connector	FAKRA Z TYPE
Power Supply Range	8 ~ 17 VDC
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
IP Rating	TBD
Weight	~ 48 g

APPLICATIONS

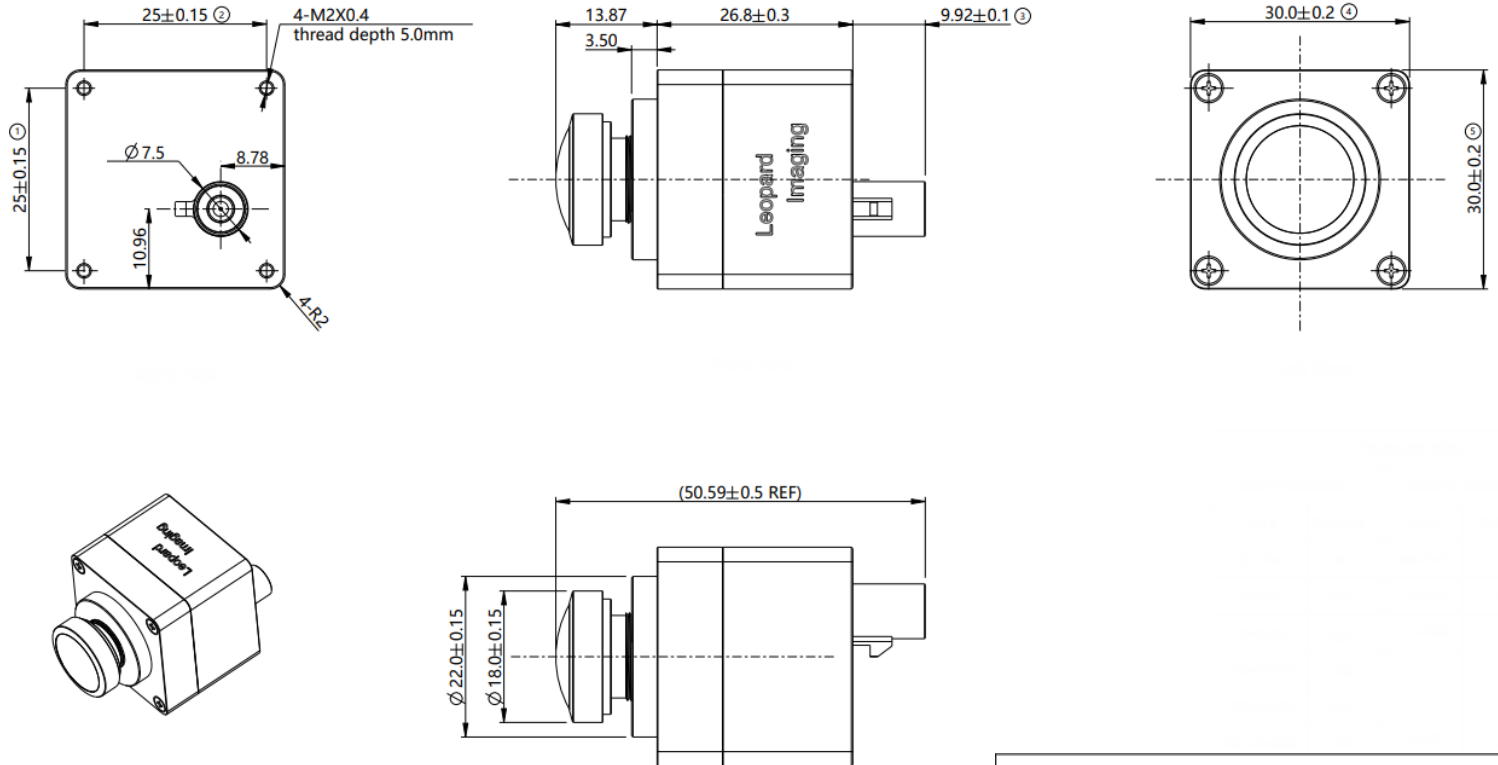
- Automotive
 - ◆ Surrounding View System
 - ◆ Rear View Camera
 - ◆ Autonomous Driving

LENS SPECIFICATIONS

Effective Focal Length	1.53 mm $\pm$ 5%
Aperture, F/#	2.0 $\pm$ 5%
Field of View (FOV)	195° horizontal
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS



NOTE:

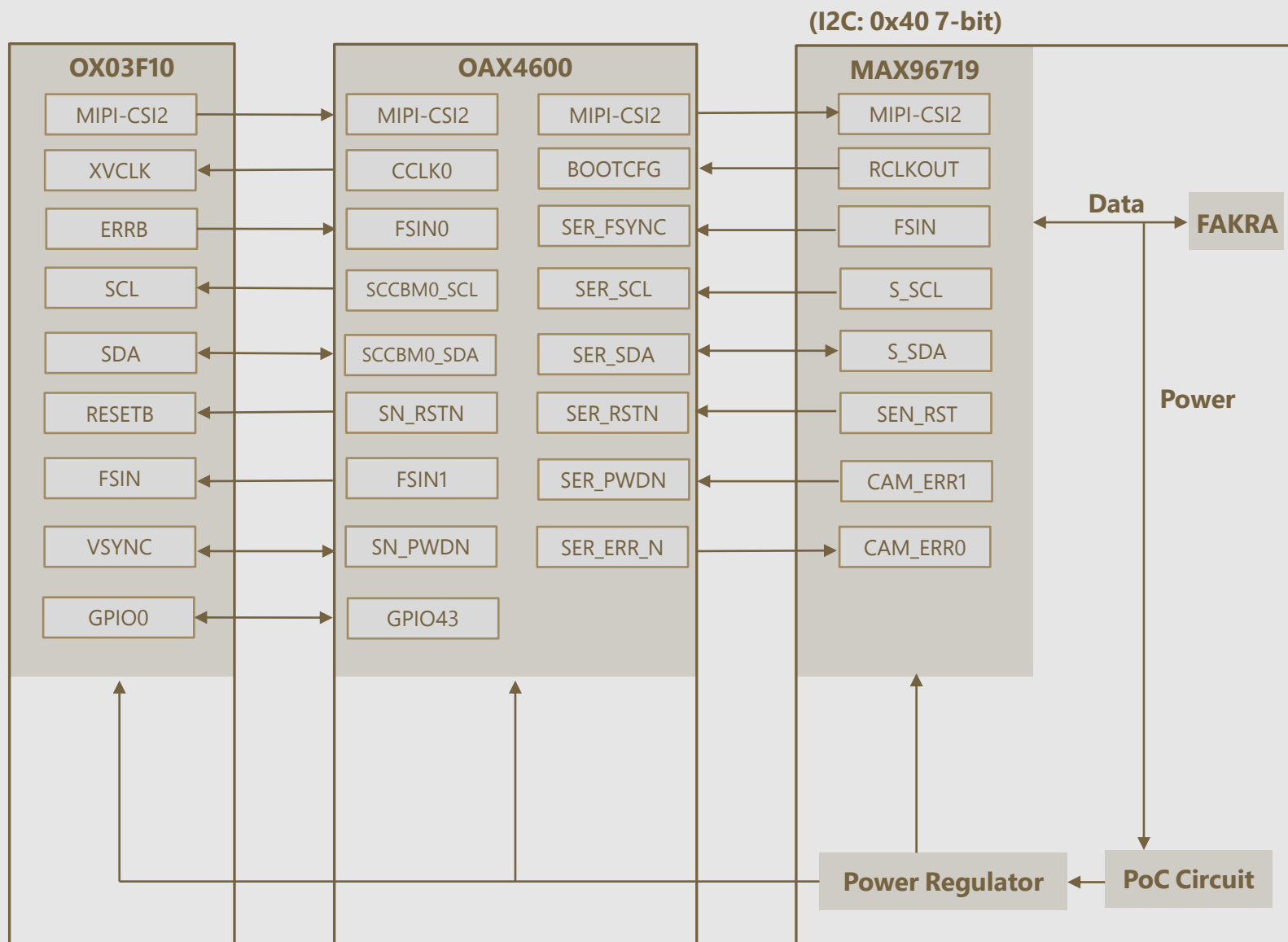
- $\otimes$ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked refer to the Tolerance table.
- Unit: mm

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				

IMAGE ORIENTATION



SYSTEM BLOCK DIAGRAM



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	02 Sep 2025

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