



LEOPARD
IMAGING

LI-IMX728RCCG-GM2B-120H-DSL



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INTRODUCTION

The LI-IMX728RCCG-GM2B-120H-DSL is equipped with Sony diagonal 9.30 mm 8.39MP CMOS RCCG sensor IMX728 and Maxim GMSL2 serializer MAX96717. This camera outputs RAW image data.

SPECIFICATIONS

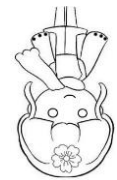
Sensor	Diagonal 9.30 mm 8.39MP CMOS RCCG Sensor IMX728 (ES3 version)
Optical Format	1/1.72"
Resolution	3857 (H) x 2177 (V) (active pixels)
Pixel Size	2.1 x 2.1 μ m
Color / Mono	Color sensor
Output Format	20-bit / 16-bit / 12-bit / 10-bit RAW data
Frame Rate	30 fps @ 3856 x 2176
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim MAX96717G
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
Waterproof	No
Power Consumption	Approx. 121 mA @ 12 VDC (3856 x 2176 @ 15 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 43 g
Part#	LI-IMX728RCCG-GM2B-120H-DSL



APPLICATIONS

- Automotive
 - ◆ High Resolution Front Viewing
 - ◆ Machine Vision
 - ◆ Autonomous Driving
 - ◆ Assisted Driving
 - ◆ Digital Video Recording

IMAGE ORIENTATION

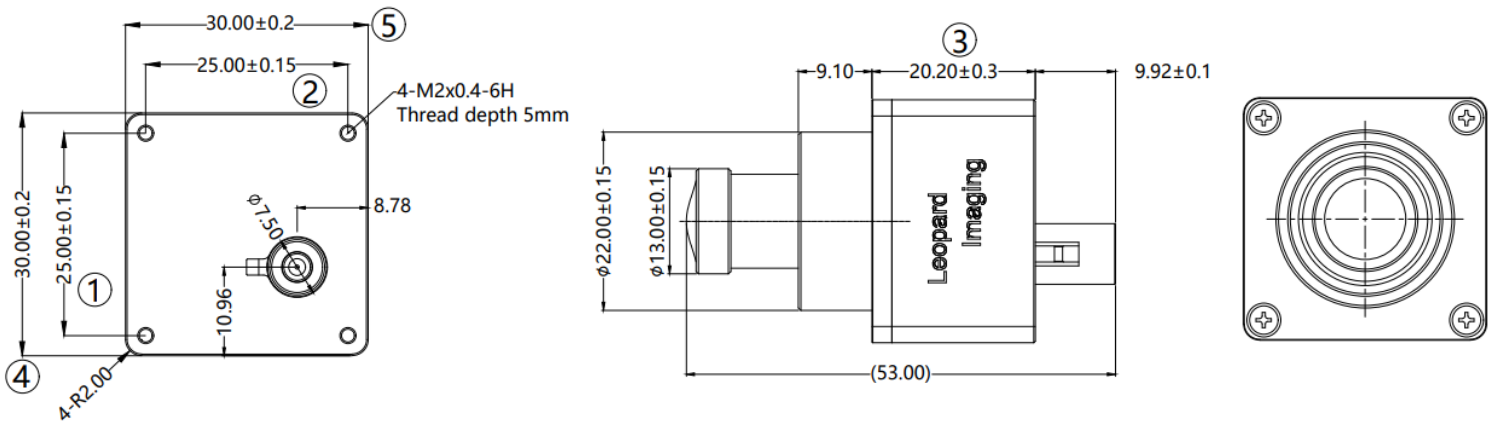


LENS SPECIFICATIONS

Focal Length	5.1 mm $\pm$ 2%
Aperture, F/#	1.6 $\pm$ 5%
Field of View (FOV)	120° horizontal
IR Cut Filter	700 nm IR cut filter
Lens Mount	M16 x P0.5



DIMENSIONS

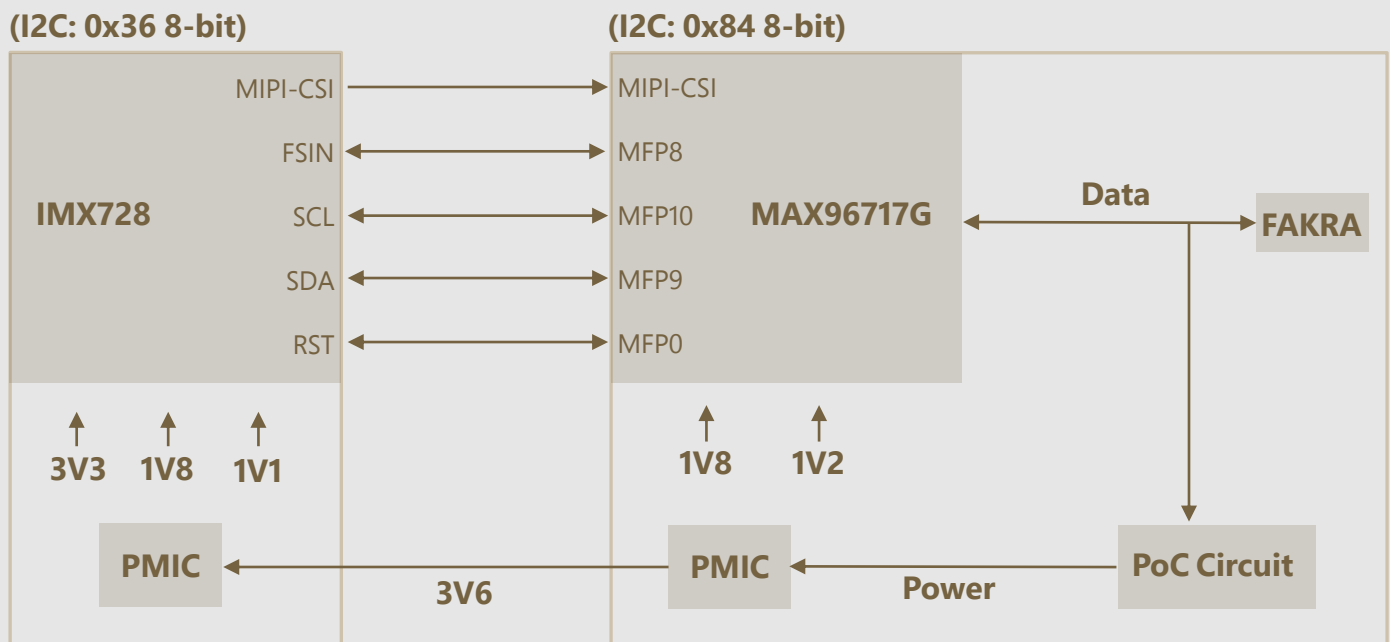


NOTE:

- ⊗ marked are important sizes.
- Other unmarked tolerances are ± 0.3 mm.

Unit: mm

PINOUT CONNECTIONS



USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-IMX728RCCG-GM2B-120H-DSL can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-IMX728RCCG-GM2B-120H-DSL**

SPECIFICATIONS

- USB 3.0 Super Speed support
- UVC compliant
- Allows customization
- 12 VDC Power Supply for camera
- Weight: ~ 110 g
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Resolution: 3856 x 2176 @ 15 fps
- Power consumption: Approx. 121 mA @ 12 VDC
- Compatible with Windows, Linux OS and other OS which have UVC drivers

BOM

#	Items	QTY
1	LI-IMX728RCCG-GM2B-120H-DSL	1
2	LI-GMSL2-USB	1
3	3-Meter Fakra Cable	1
4	12 VDC Power Supply	1
5	USB3.0 Cable	1



SDK SUPPORTED

- Camera Tool Source Code in C#
- Capture & Display
- Register Access Function

- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	13 Jul 2023
0.2	Updated image direction.	27 Dec 2023

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