



LEOPARD
IMAGING

LI-IMX728RCCB-GM2B-120H-DSL



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INTRODUCTION

The LI-IMX728RCCB-GM2B-120H-DSL is equipped with Sony diagonal 9.30 mm 8.39MP CMOS RCCB sensor IMX728 and Maxim GMSL2 serializer MAX96717. This camera outputs RAW image data.

SPECIFICATIONS

| | |
|------------------------------|---|
| Sensor | Diagonal 9.30 mm 8.39MP CMOS RCCB 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-IMX728RCCB-GM2B-120H-DSL |

APPLICATIONS

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

IMAGE ORIENTATION

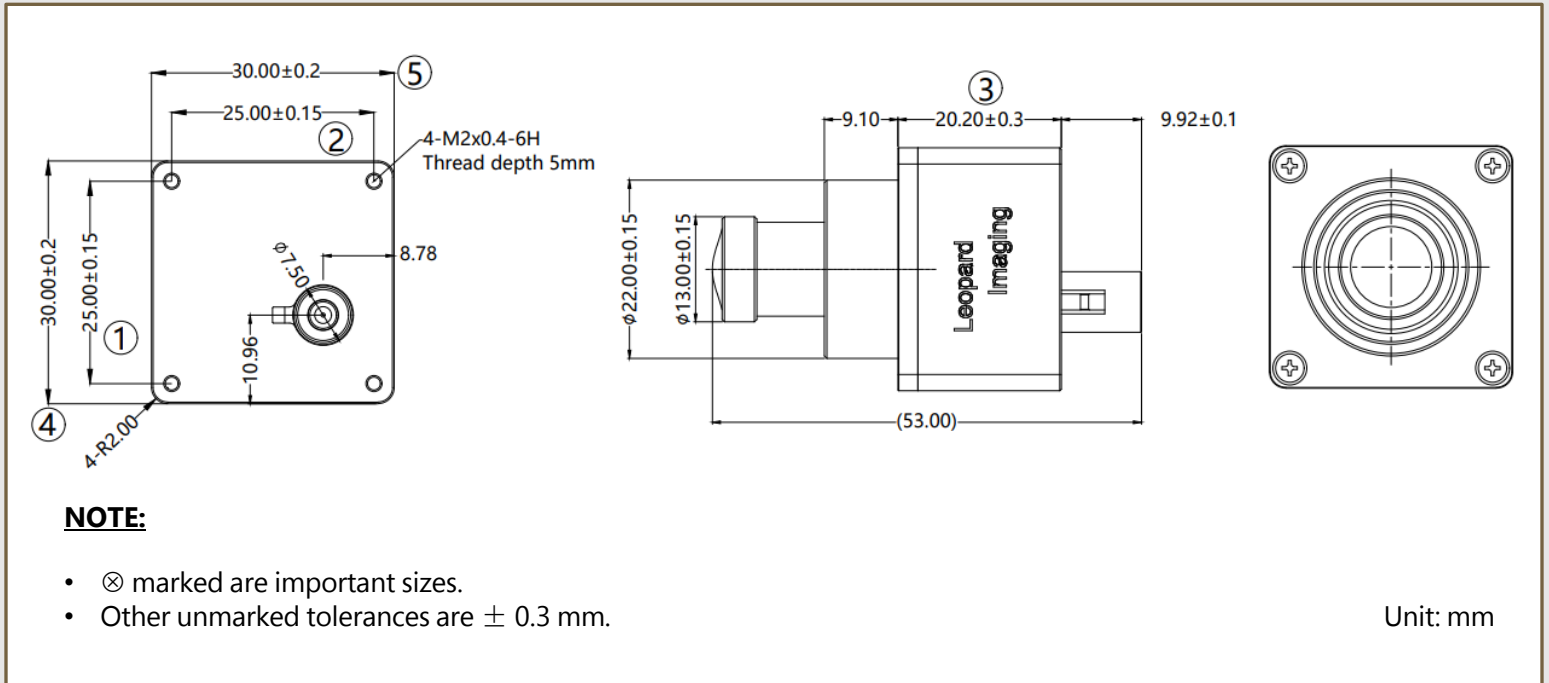


LENS SPECIFICATIONS

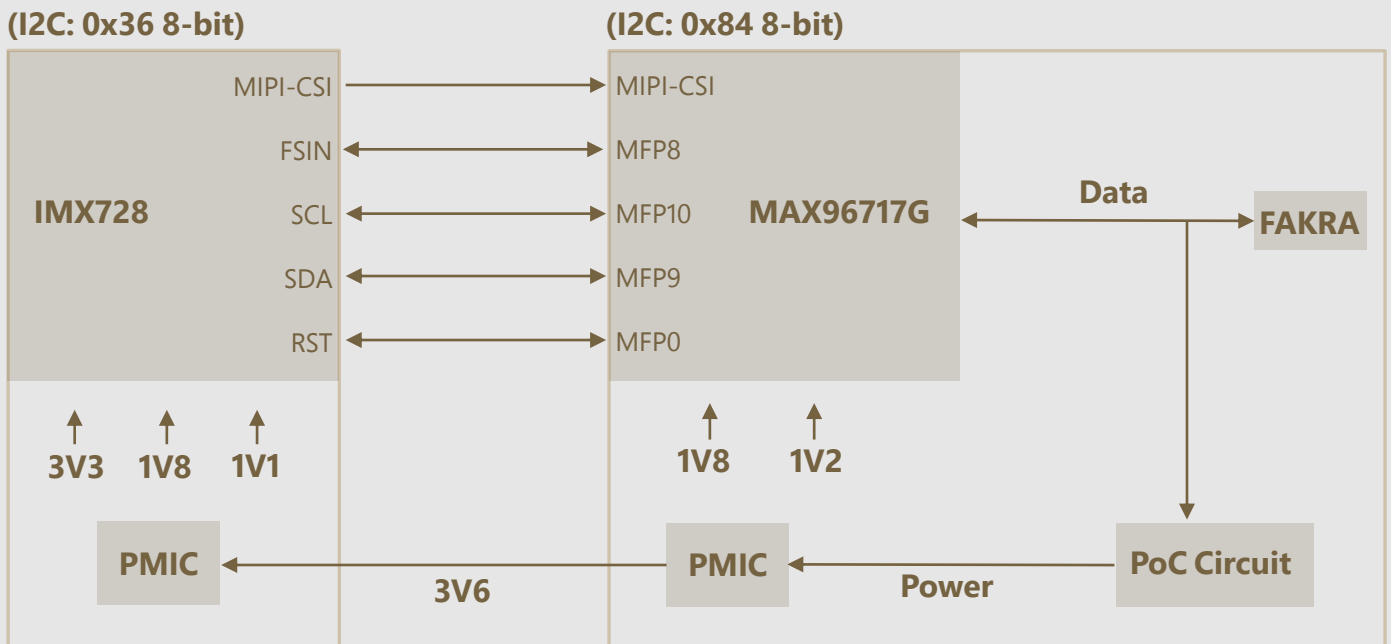
| | |
|---------------------|----------------------|
| Focal Length | 5.1 mm \pm 2% |
| Aperture, F/# | 1.6 \pm 5% |
| Field of View (FOV) | 120° horizontal |
| IR Cut Filter | 700 nm IR cut filter |
| Lens Mount | M16 x P0.5 |



DIMENSIONS



PINOUT CONNECTIONS



USB3.0 CAMERA KIT

LI-GMSL2-USB



Top View



Bottom View

LI-IMX728RCCB-GM2B-120H-DSL can connect to LI-GMSL2-USB as a USB 3.0 camera.

Part#: **LI-USB30-IMX728RCCB-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-IMX728RCCB-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 |



12 VDC power supply for camera

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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