



LEOPARD
IMAGING

LI-S5K3B6SARGGB-GM2B-100H



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

INTRODUCTION

The LI-S5K3B6SARGGB-GM2B-100H is equipped with Samsung automotive 1/2.4" 3MP CMOS RGGB image sensor S5K3B6SA which has On-Chip OTP and NVM. Its serializer is ADI GMSL2 serializer MAX96717G. This camera outputs RAW image data.

SPECIFICATIONS

Maximum Frame Rate	60 fps (intra-scene) @ 3MP with Dual Conversion gain and Lateral overflow with LFM
Output Format	20-bit / 16-bit / 14-bit / 12-bit RAW
Sensor	Samsung Automotive 1/2.4" 3MP CMOS RGGB Image Sensor S5K3B6SA
Optical Format	1/2.4"
Color / Mono	Color sensor
Resolution	1920 (H) x 1536 (V)
Pixel Size	3.0 μ m Split PD
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	ADI MAX96717G
Connector	FAKRA Z TYPE
Power Supply Range	7 ~ 24 VDC
Power Consumption	78 mA @ 12 VDC (30 fps @ 1920 x 1536)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
IP Rating	TBD
Weight	~ 48 g

APPLICATIONS

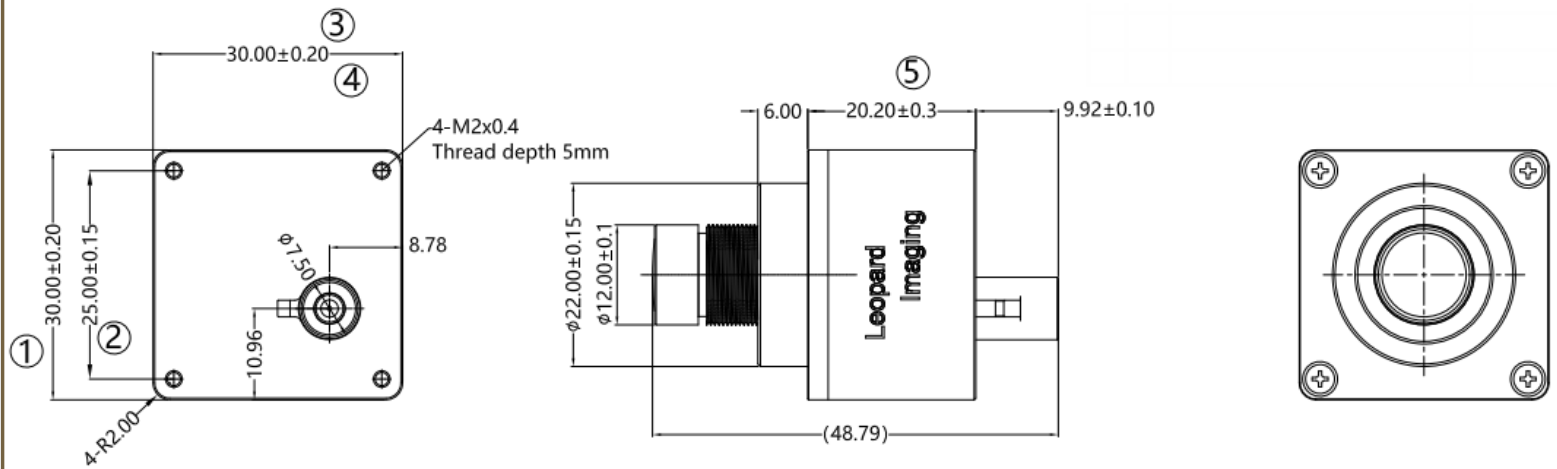
- Automotive
 - ◆ Autonomous Driving
 - ◆ High Performance ADAS
 - ◆ Front Forwarding Camera
 - ◆ Surround Sensing / Viewing Camera

LENS SPECIFICATIONS

Effective Focal Length	3.55 $\pm$ 5% mm
Aperture, F/#	1.6 $\pm$ 5%
Field of View (FOV)	100° horizontal
Optical Distortion	-50.6%
Relative Illumination	$\geq$ 50%
IR Cut Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS

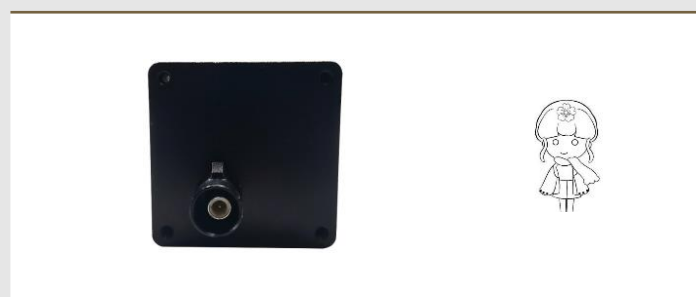


NOTE:

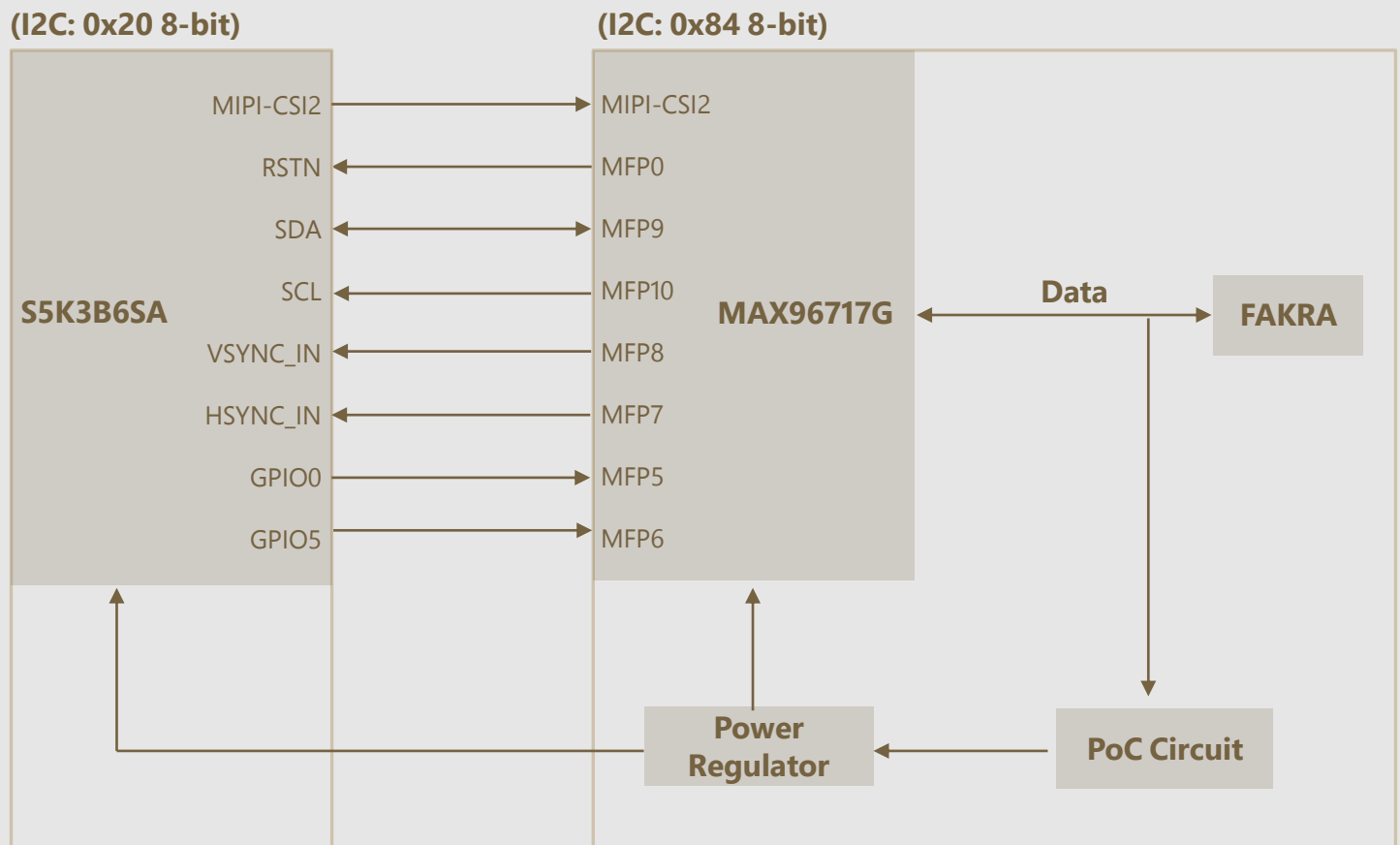
- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked refer to the Tolerance Table.
- Unit: mm

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
V0.1	Initial draft.	26 Jan 2026

910 Auburn Ct, Fremont, CA 94538, USA
Phone: +1 (408)263-0988
Fax: +1 (408)217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com

