



LEOPARD
IMAGING

LI-S5K3B6SA-GM2B-094H



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INTRODUCTION

The LI-S5K3B6SA-GM2B-094H is equipped with Samsung automotive 1/2.4" 3MP CMOS RCCG image sensor S5K3B6SA which has On-Chip OTP and NVM. Its serializer is Maxim GMSL2 serializer MAX96717. This camera outputs RAW image data.

SPECIFICATIONS

Sensor	Samsung Automotive 1/2.4" 3MP CMOS RCCG Image Sensor S5K3B6SA
Optical Format	1/2.4"
Resolution	1936 (H) x 1552 (V) (active pixels)
Pixel Size	3.0 μ m Split PD
Output Format	20-bit / 16-bit / 14-bit / 12-bit RAW
Color / Mono	Color sensor
Maximum Frame Rate	60 fps (intra-scene) @ 3MP with Dual Conversion gain and Lateral overflow with LFM
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim MAX96717
Lens	FOV H 94°
IP Rating	IP67
Power Supply Range	7 ~ 24 VDC
Connector	FAKRA Z TYPE
Power Consumption	78 mA @ 12 VDC (1920 x 1536 @ 30 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 48 g
Part#	LI-S5K3B6SA-GM2B-094H

APPLICATIONS

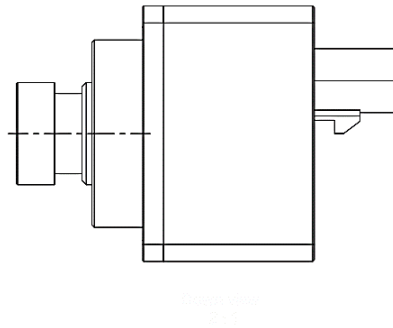
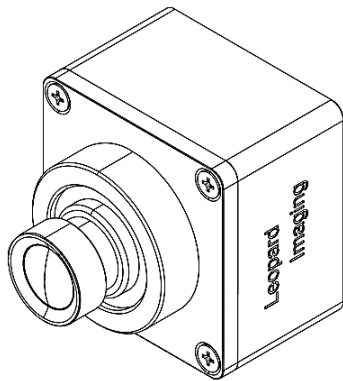
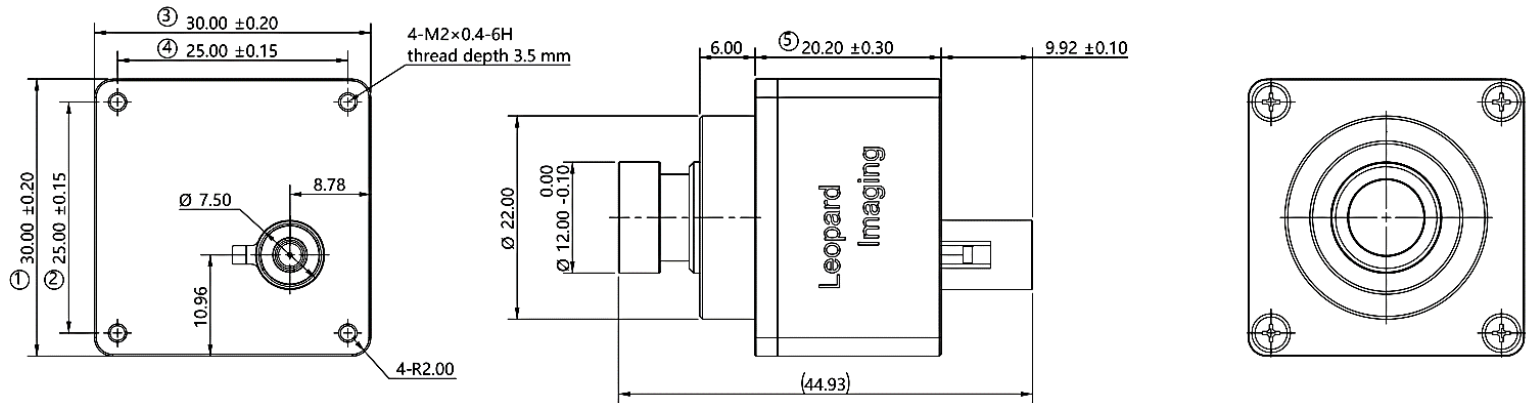
- Automotive
 - ◆ Autonomous Driving
 - ◆ High Performance ADAS
 - ◆ Front Forwarding Camera
 - ◆ Surround Sensing / Viewing Camera

LENS SPECIFICATIONS

Effective Focal Length	3.6 $\pm$ 5% mm
Aperture, F/#	1.7 $\pm$ 5%
Field of View (FOV)	94° horizontal
Optical Distortion	-35.77 $\pm$ 5% (F- tant θ)
Relative Illumination	$\geq$ 45%
IR Cut Filter	648 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS



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	$X \leq 10$	±1°
$3 < X \leq 6$	±0.1	$3 < X \leq 6$	±0.5	$10 < X \leq 50$	±30'
$6 < X \leq 30$	±0.2	$6 < X \leq 30$	±1	$50 < X \leq 120$	±20'
$30 < X \leq 120$	±0.3	$X > 30$	±2	$120 < X \leq 400$	±10'
$120 < X \leq 400$	±0.5			$X > 400$	±5'
$400 < X \leq 1000$	±0.8				
$X > 1000$	±1.2				

NOTE:

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

SYSTEM BLOCK DIAGRAM

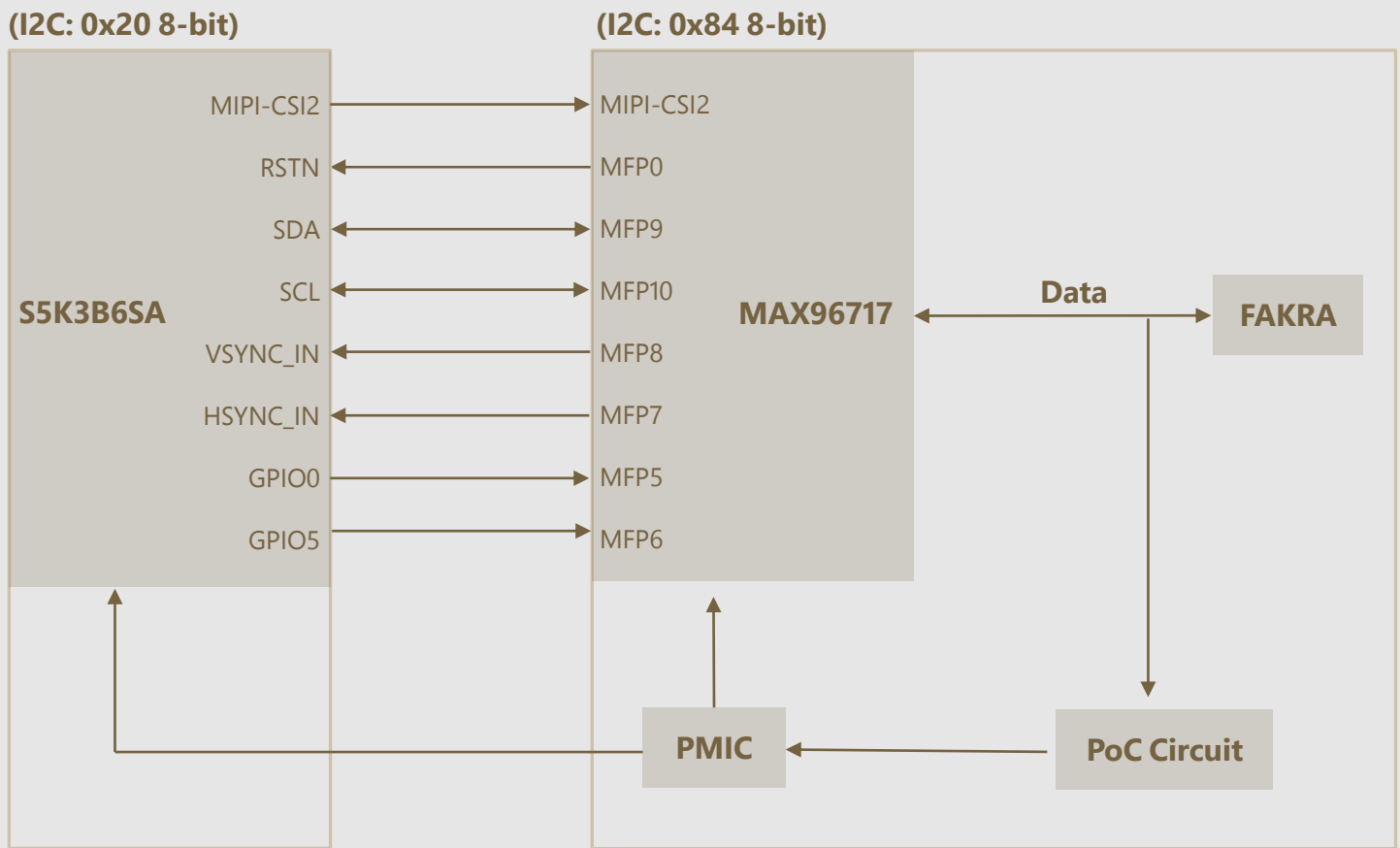
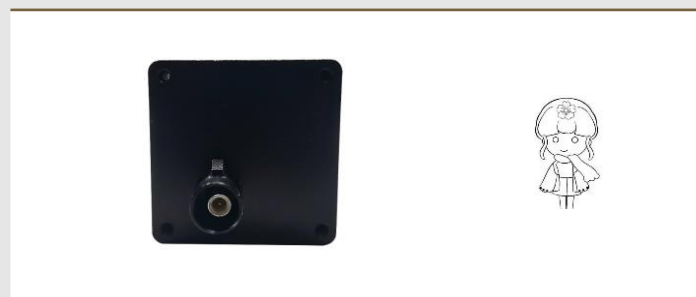


IMAGE ORIENTATION



- REVISION HISTORY

Revision	Description	Release Date
1.0	First Release.	21 Mar 2024

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