



LEOPARD
IMAGING

LI-S5K1H1SBRCCG-GM2B-120H



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-S5K1H1SBRCCG-GM2B-120H is equipped with Samsung automotive 1/1.7" 8.3MP CMOS RCCG image sensor S5K1H1SB which has On-Chip HDR and LFM. Its serializer is Maxim GMSL2 serializer MAX96717. This camera outputs RAW image data.

SPECIFICATIONS

Sensor	Samsung Automotive 1/1.7" 8.3MP CMOS RCCG Image Sensor S5K1H1SB
Optical Format	1/1.7"
Resolution	3856 (H) x 2176 (V) (active pixels)
Pixel Size	2.1 x 2.1 μ m
Output Format	20-bit / 16-bit / 14-bit / 12-bit RAW
Color / Mono	Color sensor
Maximum Frame Rate	36 fps (intra-scene) @ 8.3MP with HDR4_NEW or HDR4_VS 45 fps @ all operation mode
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim MAX96717
IP Rating	TBD
Power Supply Range	7 ~ 24 VDC
Connector	FAKRA Z TYPE
Power Consumption	98 mA @ 12 VDC (3840 x 2160 @ 20 fps)
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 45 g
Part#	LI-S5K1H1SBRCCG-GM2B-120H

APPLICATIONS

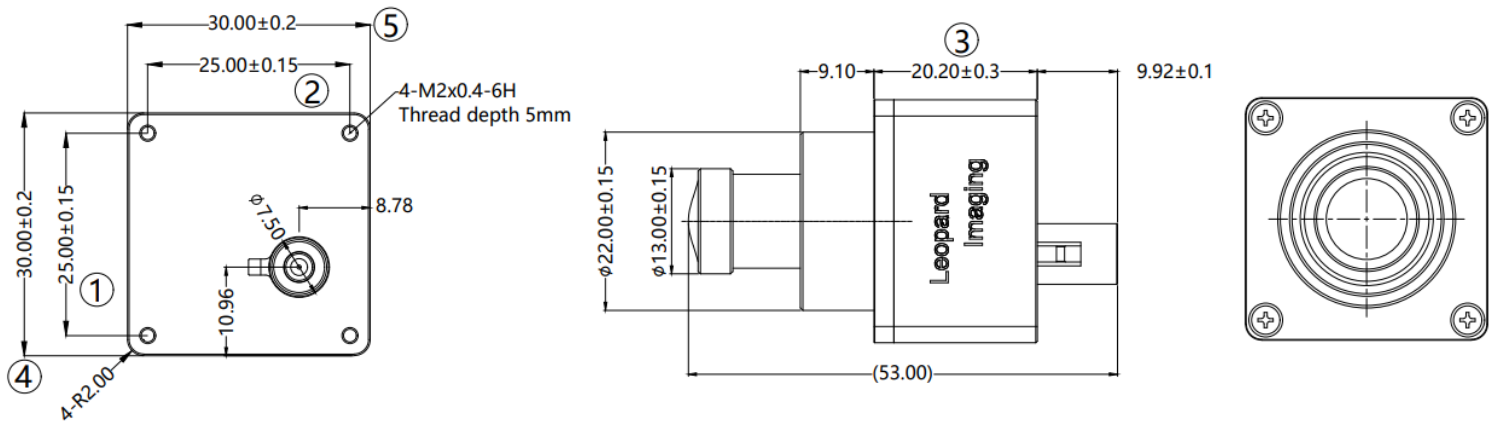
- Automotive
 - ◆ Autonomous Driving
 - ◆ High Performance ADAS
 - ◆ Front Forwarding Camera
 - ◆ Surround Sensing / Viewing Camera

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

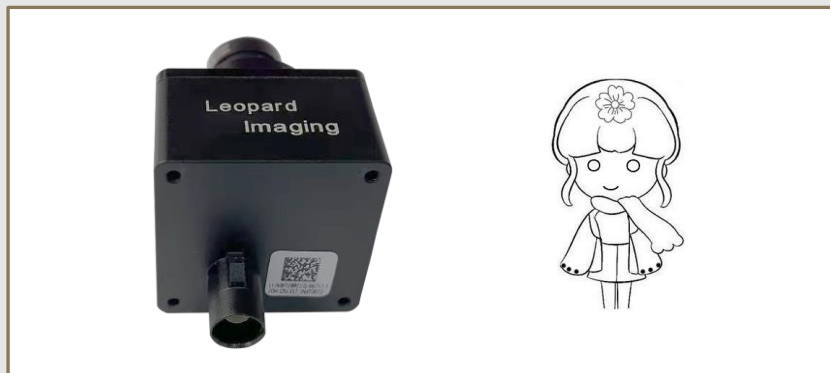


NOTE:

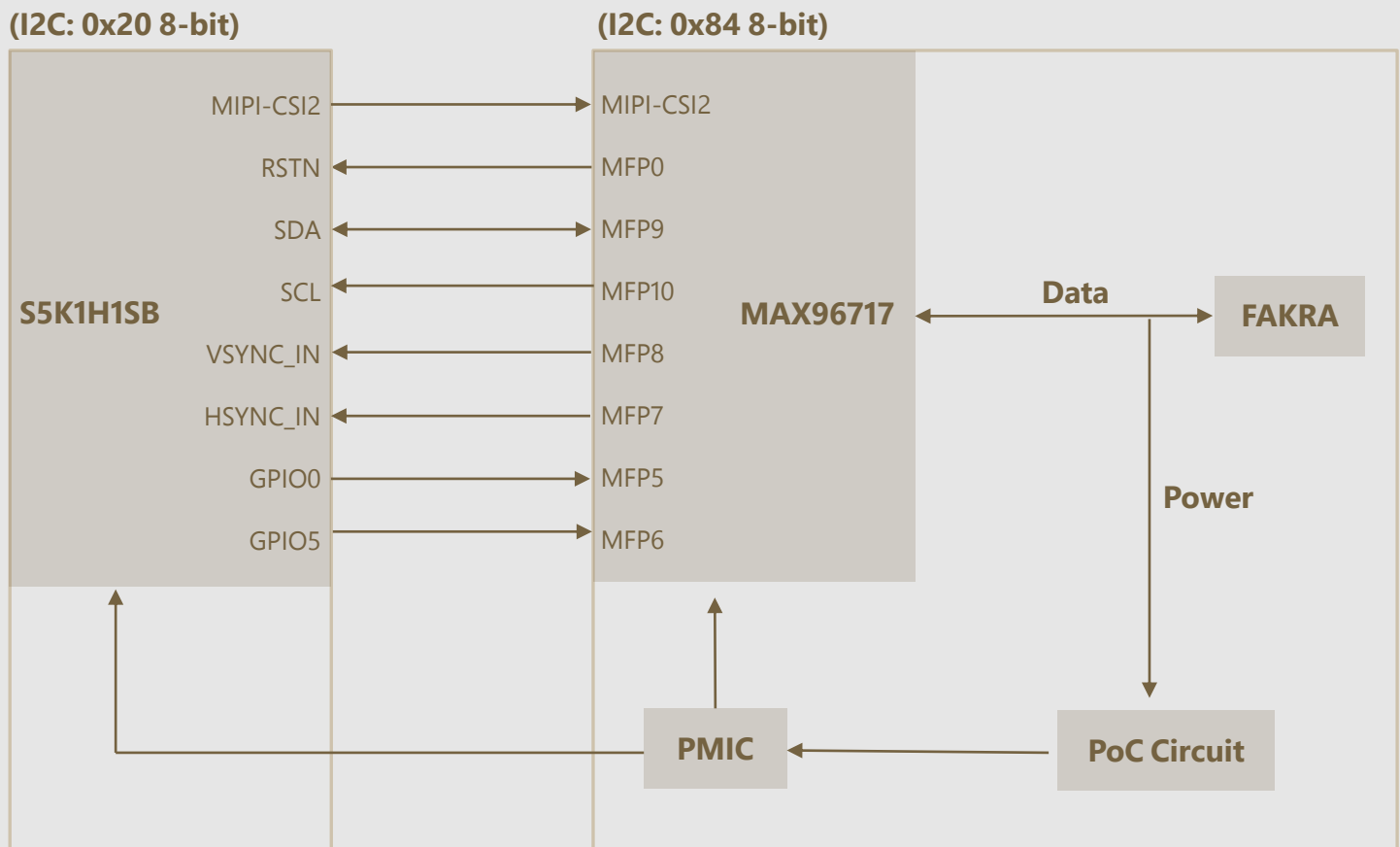
- ⊗ marked are important sizes.
- Tolerances for others unmarked are ± 0.3 mm.

Unit: mm

DEFAULT IMAGING ORIENTATION



SYSTEM BLOCK DIAGRAM



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	13 Jun 2025

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

