SHF3L

www.sensing-world.com

Basic description

SHW3H is specially designed for embodied intelligent applications. It uses a 3MP high dynamic and high frame rate sensor, featuring high-quality image effects that have been professionally image-tuned. It is equipped with a full fisheye lens and is guaranteed for product consistency through high-precision AA technology. It is suitable for applications such as robot perception and recognition.



Key parameters

Sensor	RGGB
ISP	Built-in
Output Pixels	1920H*1536V
Frame Rate	1920*1536@30fps
HDR Support	max140dB
Output data	YUV422@8bit
Camera Interface	GMSL2
Power Supply	9~16V POC
Current	<200mA@12VDC
Connector	Amphenol Fakra（Z Code ）
Operating temp. range	-40~+85℃
Dimensions	W: 25mm, L:25mm, H:33.54mm
Weight	<50g
IP level	IP67

Characteristics

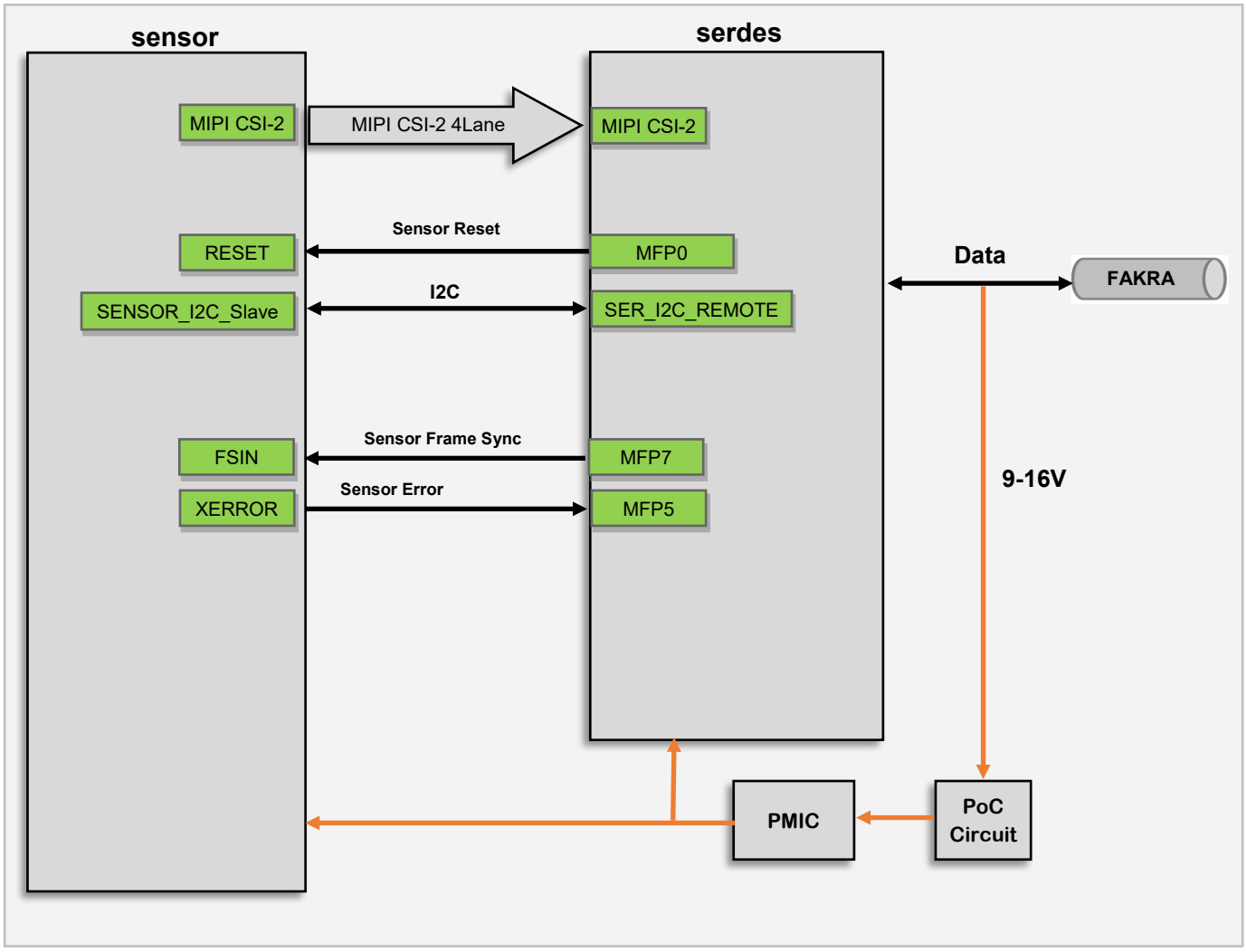
- Output uncompressed YUV data
- HDR
- Low latency
- Support external triggering
- Multi-camera synchroniza-tion

Hardware configuration

Serializer	
I2C Address	0x80(8bit address)
Rate	GMSL2 （6G bps）

ISP	
I2C Address	0x34 (8bit address)
Frame Sync	Controlled by Max9295A MFP7
Reset	Controlled by Max9295A MFP0

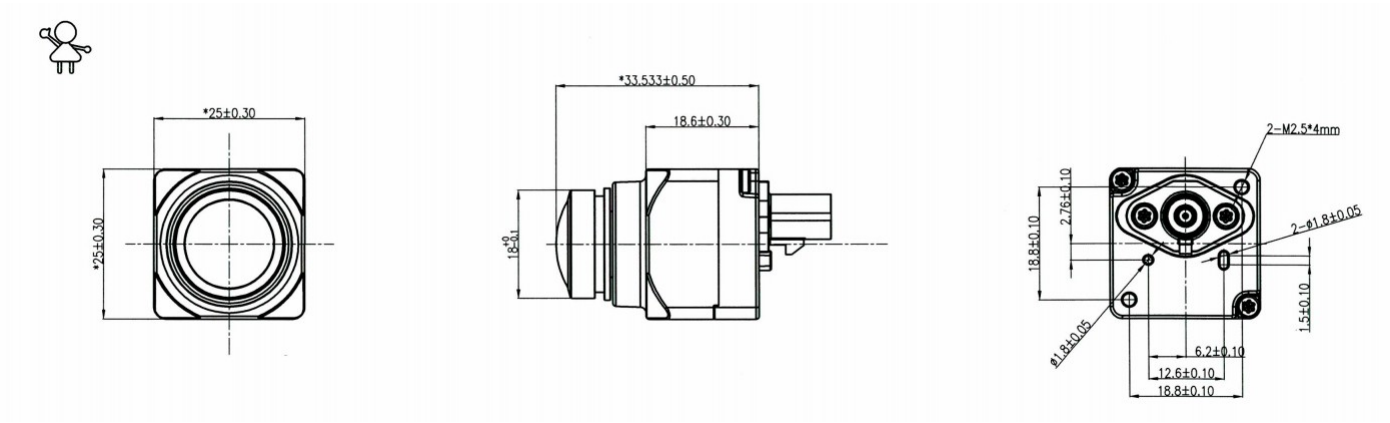
System block diagram



LENS SPEC

HFOV	VFOV	FNO	EFL	Focus distance	DOF	IP rating	Process
196°	154°	2	1.51mm	0.5m	0.15m-INF	IP69K	AA

Dimensions of the shape



Front View　　Side View　　Rear View







修订历史

Version	Description	Date
Rev1	First release	2025.08