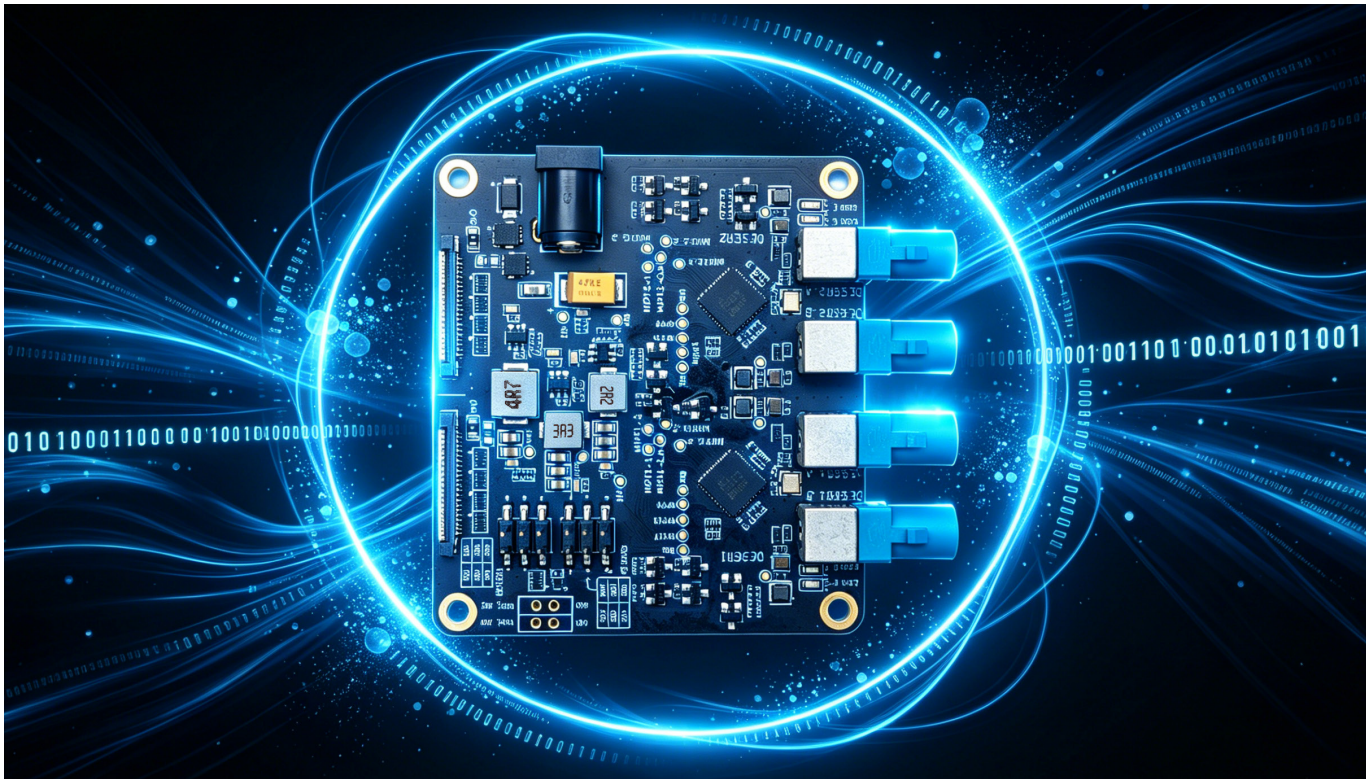
ALG-TECH

Raspberry Pi 5 GMSL Visual Development Kit



Product Introduction

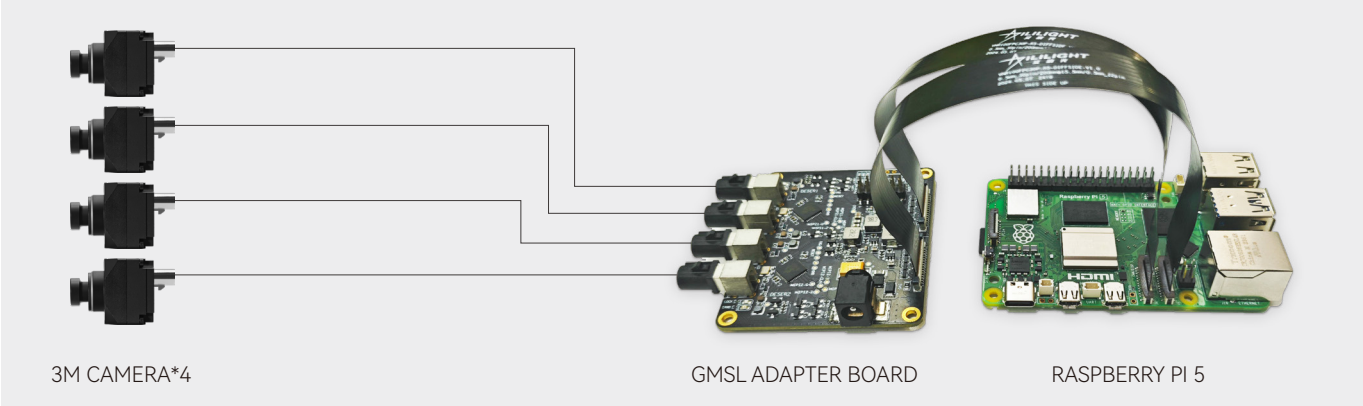
The GMSL camera access kit designed specifically for Raspberry Pi 5 supports 4-channel 3M (1920x1536) @ 30fps high-definition video synchronization input, and achieves multi-channel camera synchronization triggering through an external Trigger interface; Compatible with multiple ALG-TECH cameras and providing driver support, combined with optimized ISP and CSI hardware architecture of Raspberry Pi 5, providing a compact visual solution with high frame rate and low latency.

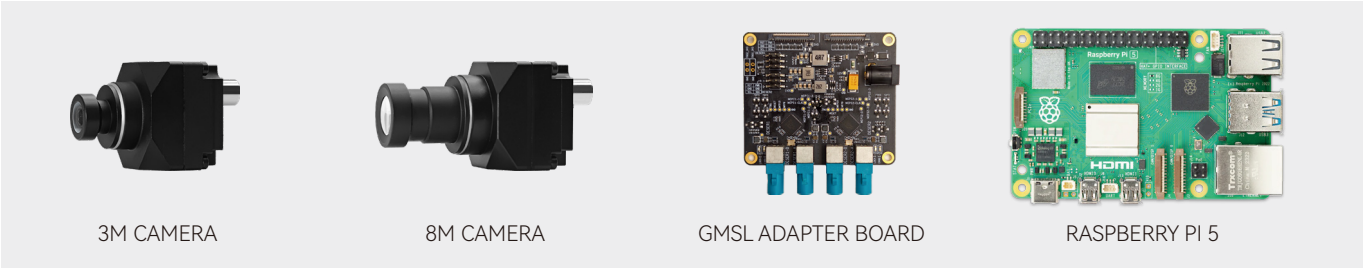
Product advantages

- Supports up to 4 channels of 3M (1920 * 1536), with 30FPS camera access.
- Support synchronous exposure of multiple cameras.
- Support MIPI-CSI output, converting GMSL1/2 input to MIPI-CSI output.
- Supports RAW/YUV format data.
- Provide driver adaptation/driver free access, support V4l2 interface, ROS platform.

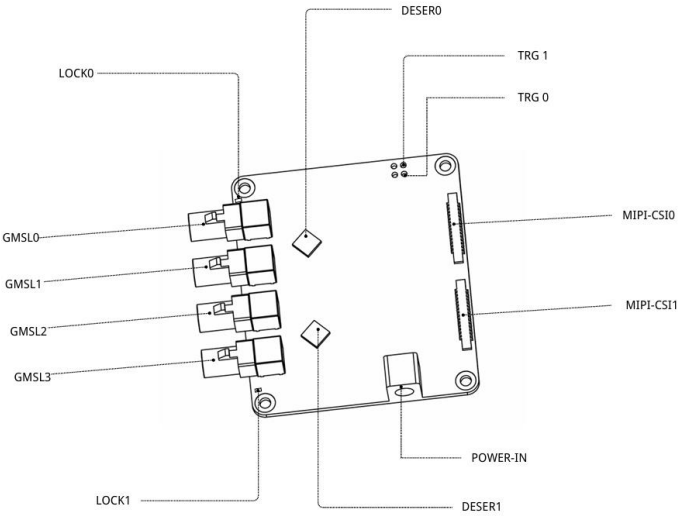
Product Parameters

Type	参数
Input Interface	GMSL1/2
Output Interface	MIPI-CSI
Support Data Formats	YUV/RAW
Supports maximum resolution	8M (3840*2160)
Supports maximum frame rate	30fps
Deserializer	MAX9296
power supply	12V/1A
Operating Temperature	-20℃~65℃
Storage temperature	-30℃~85℃

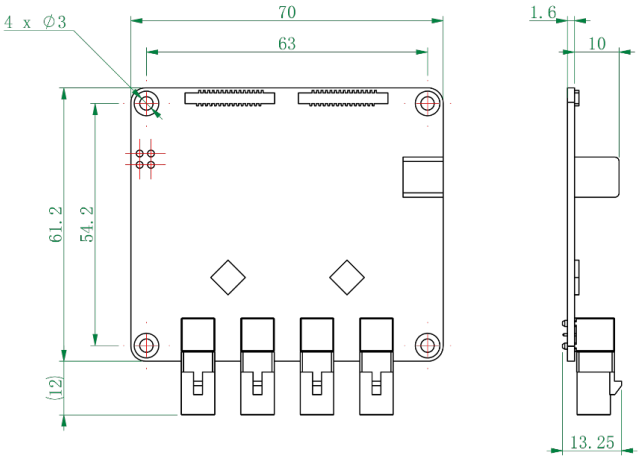




Interface Definition



Structural Dimensions



Interface	Parameter	Interface	Parameter
GMSL 0	Deserialization Deser 0 Port B	TRG 0	Deserialization Deser 0 Trigger Signal
GMSL 1	Deserialization Deser 0 Port A	TRG 1	Deserialization Deser 1 Trigger Signal
GMSL 2	Deserialization Deser 1 Port B	LOCK 0	GMSL Lock Indicator Light(Deserialization 0)
GMSL 3	Deserialization Deser 1 Port A	LOCK 1	GMSL Lock Indicator Light(Deserialization 1)
MIPI-CSI 0	Deserialization Deser 0 MIPI-CSI	POWER IN	DC 12V
MIPI-CSI 1	Deserialization Deser 1 MIPI-CSI		

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