



ACA20M

Starlight Camera

The ACA20M camera module features a 2M low-light specialized image sensor, 2M high-performance ISP image processing chip, and Maxim GMSL2 serializer. It is designed for low-light conditions, with professional image tuning that provides high-quality images both day and night. It is equipped with an M16 standard lens and achieves an overall IP67 protection level.



- Output uncompressed YUV data
- Support external trigger
- Automotive-grade protection
- Support lenses with different focal lengths
- Multi-camera synchronization
- FCC, CE, and RoHS certification

Application



Automotive Vision



ADAS and Vision-Sensor Fusion



HDR Applications



Autonomous Driving



Robot

ACA20M

— Key Parameters



Sensor	2MP RGGB
ISP	YES
Image Size	1/1.8 inch CMOS
Output Pixels	1920H X 1080V
Pixel Size	4.0um X 4.0um
Frame Rate	1920*1080@30fps
HDR	/
LFM	/
Output Data	YUV422@8bit
Serializer	MAXIM MAX96717F
Camera Interface	GMSL2
Power Supply	9~16V POC
Current	<250mA@12VDC
Connector	Amphenol Fakra (Z Code)
Operating Temprange	-40~+85°C
Dimensions	W: 30mm, L:30mm, H:22.5mm
Weight	<50g

— Hardware Configuration

Serializer	
Model	Max96717F
I2C Address	0x80 (8bit address)
GMSL Rate	GMSL2 (3G bps)
ISP	
I2C Address	0x40 (8bit address)
Reset	Controlled by Max96717F MFPO
Sensor	
I2C Address	0x30 (7bit address)