



## ACA10M

### Camera Module

The ACA10M camera module is designed with Sony CMOS image sensor (IMX390), image processor (GW5200), and Maxim GMSL2 serializer (Max9295A). It meets automotive-grade performance standards and offers high-quality image effects with professional image tuning; it is equipped with an AA automotive lens and achieves an overall IP67 protection level.



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

### Application



Automotive Vision



ADAS and Vision-Sensor Fusion



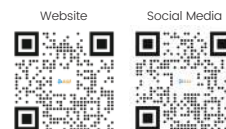
HDR Applications



Autonomous Driving



Robot



|                     |                           |
|---------------------|---------------------------|
| Sensor              | SONY 2.12MP IMX390 RGGB   |
| ISP                 | GW5200                    |
| Image Size          | 1/2.7 inch CMOS           |
| Output Pixels       | 1920H X 1080V             |
| Pixel Size          | 3.0um X 3.0um             |
| Frame Rate          | 1920*1080@30fps           |
| HDR                 | Support                   |
| LFM                 | Support                   |
| Output Data         | YUV422@8bit               |
| Serializer          | MAXIM MAX9295A            |
| 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

|                   |                             |
|-------------------|-----------------------------|
| <b>Serializer</b> |                             |
| Model             | Max9295A                    |
| I2C Address       | 0x80 (8bit address)         |
| GMSL Rate         | GMSL2 (6G bps)              |
| <b>ISP</b>        |                             |
| Model             | GW5200                      |
| I2C Address       | 0xDA (8bit address)         |
| Reset             | Controlled by Max9295A MFP0 |
| <b>Sensor</b>     |                             |
| Model             | IMX390                      |
| I2C Address       | 0x42 (8bit address)         |
| Frame Sync        | Controlled by Max9295A MFP7 |
| Error             | Max9295A MFP5               |