



13M 4-lanes MIPI Camera Module

Key Properties

IMX258 Image Sensor
10/8-bit RAW format
Frame Rate: 30fps @ 4208 x 3120
Max Resolution: 4208 x 3120
S-Mount : M7/M12
Lenses Type: Fixed / Auto Focus (default 82°)

Application

Quality Control & Inspection / Image Recognition Laser Sensing
/ DIY Camera Solutions / Robotics Vision / Process Monitoring

Feature

- ◆ 13M(4208x3120) image sensor IMX258
 - Low illumination and high dynamic range sensor
- ◆ Megapixel M7 or M12 lenses optional
- ◆ 8/10-bit RAW data

Introduction

The **MCM13M60M7 MIPI Camera Module** is a high-performance, compact imaging solution designed for embedded system manufacturers developing AI vision, industrial inspection, robotics, and smart edge devices. Powered by Sony's 13MP Exmor RS sensor, it delivers sharp, high-resolution imaging at 4224 × 3136 pixels with a pixel size of 1.12 μm, and supports advanced features like staggered HDR for high dynamic range scenes and PDAF (Phase Detection Auto Focus) for fast, precise focusing.

This module supports 4K video at 30fps, 1080p at 60fps. It connects via a standard MIPI CSI-2 interface with 4 lanes (configurable to 2 lanes on request), and outputs RAW10 format data for direct integration with various image signal processors or SoC platforms. Built with a 1/3.06" optical format, it is housed in a compact PCB with a standard M7/M12 lens holder, providing flexibility for different field-of-view or filter configurations.



Specifications

Model	MCM13M60M7
Sensor	IMX258
Image Size	1/3.06 inch
Pixel Size	1.12 μm
Image Area	4732 μm x 3515 μm
Image Pixels & Resolution	13M / 4208(H) x 3120(V)
Image Formats	10/8-bit RAW Format
Image Transfer Rate	4208x3120 @30fps 3840x3104 @30fps 3840x2160 @30fps 3264x2448 @30fps 2592x1944 @30fps 1920x1080 @60fps
Max S/N Ratio	TBD
Dynamic Range	TBD
Sensitivity	TBD
Mini illumination	TBD
Shutter Type	Electronic rolling shutter
Lens Parameters	Standard: 82° , Autofocus
Lens Holder	Standard M7 lens holder
Power Supply	3 External Powers
Operating Voltages	DC 1.2 / 1.8 / 2.8 volts
Operating Current	< 250mA
Operating Temperature	-20 ~ 60°C
Storage Temperature	0 ~ 50°C
Operating System Request	Driver is required
Total Length	54mm
FPC Pin Numbers	24
FPC Pin Pitch	0.5mm

Specifications are subject to change without notice.



Mechanical Drawing

