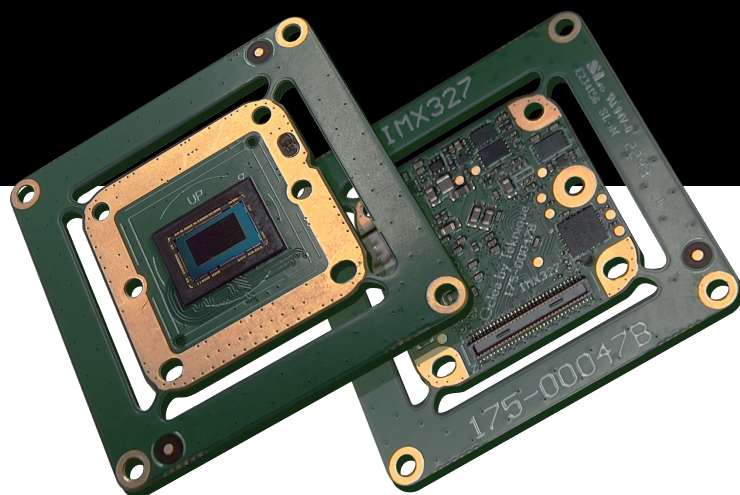


# Oclea™ IMX327 Sensor Module

The Oclea™ IMX327 sensor module is engineered for performance and precision in demanding low-light environments.

Built on Sony's STARVIS™ technology, this 2.07-megapixel, 1/2.8" back-illuminated CMOS sensor module delivers exceptional image clarity, making it a top choice for security, industrial inspection, and automotive vision systems.

Its advanced pixel architecture ensures superior sensitivity and low noise, even in near-dark conditions, providing the reliability needed for mission-critical applications.



## 2.07 MP resolution, 1/2.8" optical format

Offers full HD (1920 x 1080) resolution in a compact 1/2.8" sensor size, ideal for applications requiring a balance of performance and integration flexibility.

## STARVIS™ technology for excellent low-light performance

Sony's STARVIS™ back-illuminated pixel technology enhances sensitivity in low-light conditions, supporting visibility down to sub-lux levels for security and night-time operation.

## High sensitivity and low noise

Maintains clarity and accuracy in both brightly lit and dim conditions, improving image quality for analytics and classification algorithms. for enhanced clarity Delivers strong signal-to-noise ratio, capturing clear and consistent images even in dim or high-contrast environments.

## High dynamic range (HDR) for balanced exposure in varying light conditions

Enables detailed capture in scenes with both dark and bright regions, avoiding washed-out highlights or shadowed detail loss.

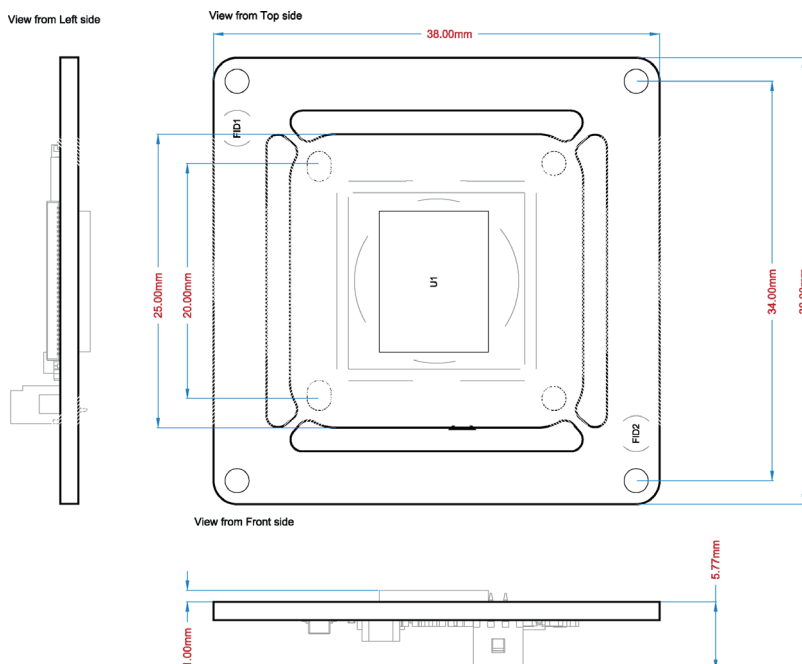
## Compact design for integration into space-constrained systems

The 38x38mm (downsizable to 25x25mm) board layout simplifies integration into embedded devices or enclosures with minimal mechanical overhead.

## The Oclea™ IMX327 sensor module

Size 38 x 38 x 6.54 mm • Weight 5g \*

\* Can be depanneled down to Size 25 x 25 x 6.54 mm • Weight 3g



**MODULE SPECIFICS****Resolution: 1920 x 1080 (2.07 MP)**

- Image Sensor Type: Sony STARVIS™ CMOS sensor
- Target Applications: Surveillance, automotive ADAS, machine vision

**Optical Format: 1/2.8"****Pixel Size: 2.9µm x 2.9µm****Frame Rate: Up to 60 fps****Interface: MIPI CSI-2 (4 lanes)****INPUT/OUTPUT INTERFACES****MIPI CSI-2 data interface**

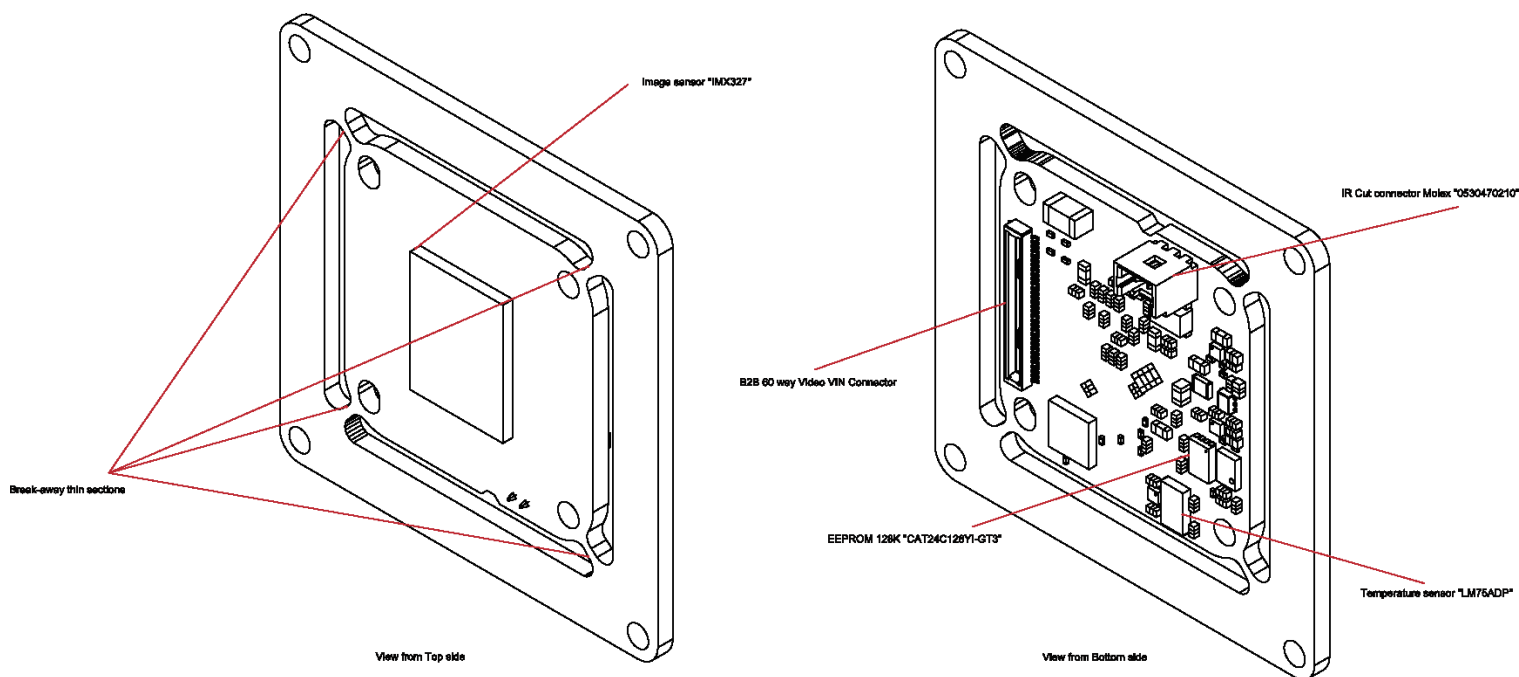
- Simple plug-and-play integration with standard MIPI hosts
- Auxiliary I/O for external triggering and synchronisation
- GPIO, PWM, and UART support for advanced integration
- GPIO and I2C support for sensor control and peripheral interface

**I2C control interface****Flexible power input options****POWER CONSUMPTION****Typical power consumption: < 0.5W (module dependent)**

- Low thermal profile enables passive thermal solutions

**COMPANION LENS OPTIONS****3.6mm M12 lens, F2.0, 87° HFOV**

- Optimised for full-HD capture with low distortion

**6.0mm M12 lens, F1.8, 58° HFOV****IR-cut filter or dual-bandpass options available for day/night operation****The Oclea™ IMX327 sensor module**

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