



### Applications:

- Automotive
- Security & Surveillance
- Mobile
- Smart Home

### Features:

- High Sensitivity
- High Signal to Noise Ratio

#### Automatic Controls:

- Automatic Black Level (ABLC)
- Automatic Exposure and Gain Control (AEC/AGC)
- Automatic White Balance (AWB)

#### Image Quality Controls:

- Bad Pixel Correction
- Lens shading correction

#### Programmable Controls:

- 2-exposure HDR mode
- Frame rate and frame size
- Binning Mode
- Column and row sub-sampling
- Mirror, flip, windowing and cropping
- Multiple camera frame sync
- Dedicated I<sup>2</sup>C ID pin select
- Embedded Data Line
- On-chip temperature sensor
- 4 K-bit one-time programmable memory (OTP)
- Ultra-high precision on-chip PLL

#### Output formats and Interfaces:

- 10-bit raw MIPI CSI-2 1-lane or 2-lane
- 10-bit raw DVP

#### Other controls:

- Register group access capability

### Key Specifications:

<b>Optical Format</b>		1/2.7-inch.
<b>Active Pixel Array (1080P)</b>		1936H x 1096V
<b>Pixel Size</b>		3.0 µm x 3.0 µm
<b>Color Filter Array</b>		RGB Bayer Pattern
<b>Chief Ray Angle</b>		9 ° Linear
<b>Shutter Type</b>		Electronic Rolling Shutter
<b>Maximum Frame Rate</b>		1080P : 60fps 1080P HDR: 30fps
<b>Power Supply</b>	<b>Analog (AVDD)</b>	3.2 – 3.6V (3.3V nominal)
	<b>I/O</b>	1.7 – AVDD
<b>Power Consumption</b>	<b>Active</b>	TBD
	<b>Standby</b>	<1µA
<b>Output Formats</b>		10-bit RAW
<b>Operating Temperature</b>		-30°C to 85°C
<b>Storage Temperature</b>		-40°C to 95°C
<b>Package Dimensions (µm<sup>2</sup>)</b>		6502µm x 5362µm