AR0239

CMOS Image Sensor, 2.3 MP, 1/2.7"

Product Overview

For complete documentation, see the data sheet.

The AR0239 from ON Semiconductor is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1936 (H) × 1188 (V). It captures images in either linear or high dynamic range modes, with rolling-shutter readout. It includes sophisticated camera functions such as in-pixel binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range scene performance. It is programmable through a simple two-wire serial interface. The AR0239 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including surveillance and HD video.

Features

- 2.3Mp at 90 fps for Excellent Video Performance
- Small Optical Format (1/2.7-inch)
- 1080p Mode for 16:9 Video
- Superior Low-light Performance
- 3.0um large Back Side Illuminated Pixel Technology
- Supports Line Interleaved T1/T2/T3 Readout to Enable HDR Processing in ISP Chip at 1080P and 30fps
- On-chip Phase-locked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction
- Slave Mode for Precise Frame-rate Control
- Data Interfaces: - HiSPi (SLVS) - 4 Lanes - MIPI CSI-2 - 4 Lanes - Parallel
  For more features, see the data sheet

Applications

- Video Surveillance
- High Dynamic Range Imaging

End Products

- Security Camera
- Action camera
- Car DVR
- Body camera

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0239SRSC00SUEA0-DP		Pb H	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63
AR0239SRSC00SUEA0-DPBR		Pb H	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63
AR0239SRSC00SUEA0-DR		Pb H	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63