

AS0142AT

CMOS Image Sensor and Signal Processor Stack Chip, 1.0 MP, 1/4-Inch, Color

Product Overview

For complete documentation, see the data sheet.

The ON Semiconductor AS0142AT is a 1.0 MP CMOS digital image sensor and signal processor for automotive viewing applications. The device includes full auto-functions support (AWB and AE) and ALTM (Adaptive Local Tone Mapping) to enhance HDR image/video. The AS0142AT implements a high-sensitivity 3.0 µm pixel with DR-Pix technology and advanced noise reduction, to enable excellent low-light performance. It can be operated in either linear or high dynamic range modes. The AS0142AT may be operated in video (master) mode or in single frame trigger mode, providing flexibility for multi-camera systems.

Features

- Latest 3.0 µm pixel with ON Semiconductor DR-Pix™ technology
- Superior Low-light Performance
- 45 fps at 1.0 MP, 60 fps at 720p
- · Linear or High Dynamic Range Video
- Color Processing Optimized for HDR Video Operation
- Color and Gamma Correction
- Auto Exposure, Auto White Balance, 50/60 Hz Auto Flicker Detection and Avoidance
- Adaptive Local Tone Mapping (ALTM)
- Programmable Spatial Transform Engine (STE)
- Pre-rendered Graphical Overlay
 For more features, see the data sheet

Applications

- Automotive ADAS
- Automotive surround and rear-view
- ADAS + Viewing Fusion
- Mirror Replacement (CMS)

Part Electrical Specifications												
Product	Pricing (\$/Unit)	Complian ce	Status	Туре	Megapi xels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interfac e	Color	Packag e Type
AS0142ATSC00 XUSM0-DRBR-E		РЬ Н	Active	CMOS	1		1/4 inch	Electron ic Rolling	3.0 x 3.0	Parallel		IBGA- 143

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