

产品概览

AR0143AT: 1/4" 1.3 MP Rolling Shutter CMOS Image Sensor

欲看完整文档，请参阅数据表。

ON Semiconductor's AR0143AT is a 1/4-inch CMOS digital image sensor with a 1344Hx968V active-pixel array. It captures images in either linear, high dynamic range, or LFM modes, with a rolling-shutter readout. The LFM mode eliminates high frequency LED flicker in the image allowing Traffic Sign Reading (TSR) algorithms to operate in all lighting conditions. 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, with sensor fault detection features that can enable ASIL B compliance for the camera system. It is programmable through a simple two-wire serial interface. The AR0143AT 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 automotive ADAS, automotive scene viewing, and 720p HDR video.

特性

- Latest 3.0um Back Side Illuminated (BSI) pixel Technology
 - Advanced HDR with flexible exposure ratio control
 - Up to 4-exposure HDR at 1344 x 968 30fps
 - 4-lane MIPI CSI-2, Parallel, or 4-lane high speed pixel interface (HiSPi) serial interface
 - Selectable automatic or user controlled black level control
 - Frame to frame switching among up to 4 contexts to enable multi-function systems
 - Spread-spectrum input clock support
 - Multi-Camera synchronization support
 - AEC-Q100 Grade 2 Qualified
 - Sensor Fault Detection for ASIL-B Compliance
- For more features, see the data sheet

应用

- Automotive ADAS
- Surround View Camera
- Rear View Camera
- Driving Video Recorder

器件电气规格

产品	Compliance	Status	Type	Megapixel s	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0143ATSC00XUEA 0-DPBR	AEC Qualified	NEW	CMOS	1.3	30	1/4 inch	Rolling	3.0 x 3.0	MIPI	RGB	IBGA-80
	PPAP Capable								Parallel		
	Pb-free										
	Halide free										
AR0143ATSC00XUEA 0-DRBR	AEC Qualified	NEW	CMOS	1.3	30	1/4 inch	Rolling	3.0 x 3.0	MIPI	RGB	IBGA-80
	PPAP Capable								Parallel		
	Pb-free										
	Halide free										
AR0143ATSC00XUEA 0-TPBR	AEC Qualified	NEW	CMOS	1.3	30	1/4 inch	Rolling	3.0 x 3.0	Parallel	RGB	IBGA-80
	PPAP Capable								MIPI		
	Pb-free										
	Halide free										
AR0143ATSC00XUEA 0-TRBR	AEC Qualified	NEW	CMOS	1.3	30	1/4 inch	Rolling	3.0 x 3.0	Parallel	RGB	IBGA-80
	PPAP Capable								MIPI		
	Pb-free										
	Halide free										

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