



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Product Overview

### AR0140AT: CMOS Image Sensor, 1.0 MP, 1/4"

For complete documentation, see the data sheet.

ON Semiconductor's AR0140AT is a 1/4-inch CMOS digital image sensor with an active-pixel array of 1280Hx800V. It captures images in either linear or high dynamic rangemodes, with a 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 AR0140AT 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.

### Features

- High Dynamic Range

### Applications

- Automotive

### Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0140AT2C00XUEA 0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0	-	RGB	IBGA-63
AR0140AT3C00XUEA 0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0	-	RGB	IBGA-63
AR0140AT3C00XUEA 0-DPBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0	Serial Parallel	RGB	IBGA-63
AR0140AT3C00XUEA 0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0	-	RGB	IBGA-63
AR0140AT3C00XUEA 0-DRBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0	Serial Parallel	RGB	IBGA-63
AR0140AT3C00XUEA 0-TPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0	Parallel Serial	RGB	IBGA-63

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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