

## Product Overview

### AR0132AT: CMOS Image Sensor, 1.2 MP, 1/3"

For complete documentation, see the data sheet.

ON Semiconductor's AR0132AT 1/3-inch CMOS digital image sensor with an active-pixel array of 1280H x 960V. It captures images in either linear or high dynamic range modes, with a rolling-shutter readout. It includes sophisticated camera functions such as auto exposure control, 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 AR0132AT 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. This sensor is compatible with ON Semiconductor's automotive image co-processors which provides megapixel HDR image processing.

### Features

- High Dynamic Range

### Applications

- Automotive

## 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 |
|---------------------------|-------------------|---|--------|------|------------|------------------|----------------|--------------------|-----------------|------------------|-------------|--------------|
| AR0132AT6B00XPD20         |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | Mono<br>RGB |              |
| AR0132AT6C00XPD20         |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | Mono<br>RGB |              |
| AR0132AT6C00XPEA0-DPBR    |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | RGB         | IBGA-63      |
| AR0132AT6C00XPEA0-DRBR    |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | RGB         | IBGA-63      |
| AR0132AT6C00XPEA0-DRBR1   |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | RGB         | IBGA-63      |
| AR0132AT6C00XPEA0-TPBR    |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | RGB         | IBGA-63      |
| AR0132AT6C00XPEA0-TRBR    |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | RGB         | IBGA-63      |
| AR0132AT6G00XPEA0-AA-DRBR |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | Mono<br>RGB | IBGA-63      |
| AR0132AT6M00XPEA0-DPBR    |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | Mono        | IBGA-63      |
| AR0132AT6M00XPEA0-DRBR    |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | Mono        | IBGA-63      |
| AR0132AT6M00XPEA0-DRBR1   |                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Electronic Rolling | 3.75 x 3.75     | -                | Mono        | IBGA-63      |

|                           |   |        |      |     |    |          |                    |             |   |              |         |
|---------------------------|---|--------|------|-----|----|----------|--------------------|-------------|---|--------------|---------|
| AR0132AT6M00XPEA0-TPBR    | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Mono         | IBGA-63 |
| AR0132AT6R00XPEA0-DPBR    | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Other        | IBGA-63 |
| AR0132AT6R00XPEA0-DPBR1   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Other        | IBGA-63 |
| AR0132AT6R00XPEA0-DRBR    | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Other        | IBGA-63 |
| AR0132AT6R00XPEA0-DRBR1   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Other        | IBGA-63 |
| AR0132AT6R00XPEA0-TB-DPBR | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active |      |     |    |          |                    |             |   |              | IBGA-63 |
| AR0132AT6R00XPEA0-TPBR    | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Other        | IBGA-63 |
| AR0132AT6R00XPEA0-TRBR    | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | Other        | IBGA-63 |
| AR0132AT6R00XPEA0-TRBR-E  | Pb-free<br>Halide free<br>non AEC-Q and PPAP            | Active | CMOS | 1.2 | 60 | 1/3 inch | Electronic Rolling | 3.75 x 3.75 | - | RGB and Mono | IBGA-63 |

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

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