

## ARX3A0

# CMOS Image Sensor, Ultra-Low-Power, 560 x 560, 360 fps

## Product Overview

For complete documentation, see the data sheet.

The ARX3A0 is a breakthrough CMOS imaging sensor. Designed to be ultra-miniature (1/10th inch optical format) and ultra-low-power, the ARX3A0 brings new options to IoT device , drones and robotics. The product has an innovative super low power mode which draws less than 3.2 mW while active, and can detect motion or changes in lighting conditions and wake the rest of the system up. With its high frame rate of 360 frames per second (fps), the ARX3A0 can behave like a global shutter sensor in many circumstances, while still having all the benefits of power, size and performance of a 2.2  $\mu$ m rolling shutter pixel.

### Evaluation Tools

An evaluation kit and our industry-leading DevWare evaluation software are available by contacting your local onsemi sales representative.

## Features

- Ultra Small 1/10.3" optical format
- Ultra Low Power Operation
- High Frame rate (360 fps)
- On-board frame buffer
- Smart wake
- MIPI interface
- Mono and RGB

## Applications

- Small, low power image sensing cameras

## End Products

- IoT Devices
- Robotics
- Drones
- Barcode Scanners
- Battery Powered Cameras

## Part Electrical Specifications

| Product               | Status          | Compliance | Type  | Me gapi xels | Fra me Rat e (fps) | Opti cal For mat | Shu tter Typ e        | Pixe l Size ( $\mu$ m) | Out put Inte rfac e | Col or | Fam ily | Pac kag e Typ e | Cas e Outl ine | MS L Typ e | MS L Te mp (°C) | Con tain er Typ e | Con tain er Qty. |
|-----------------------|-----------------|------------|-------|--------------|--------------------|------------------|-----------------------|------------------------|---------------------|--------|---------|-----------------|----------------|------------|-----------------|-------------------|------------------|
| ARX3A0CSSC2 8SMD20    | Obsole t e      |            | CM OS | -            | 360                | 1/10 inch        | Elec tron ic Rolli ng | 2.2 x 2.2              | MIPI                | RGB    | -       | -               |                | NA         | 0               | MT FR M           | 1                |
| ARX3A0CSSC2 8SMKA0-CR | Last Shipme nts |            | CM OS | 0.3          | 360                | 1/10 inch        | Elec tron ic Rolli ng | 2.2 x 2.2              | MIPI                | RGB    | -       | OD CSP -35      | 570 CM. PDF    | 4          | 245             | CTR AY            | 300 0            |
| ARX3A0CSSM0 0SMD20    | Obsole t e      |            | CM OS | -            | 360                | 1/10 inch        | Elec tron ic Rolli ng | 2.2 x 2.2              | MIPI                | Mon o  | -       | -               |                | NA         | 0               | MT FR M           | 1                |