

Product Overview

AP0102AT: Image Signal Processor, 1 MP

For complete documentation, see the data sheet.

AP0102AT is a dedicated automotive image co-processor that enables flexible camera platforms using high performance ON Semiconductor megapixel high dynamic range (HDR) sensors. The two-chip solution of sensor and co-processor allows for multiple camera price and performance points with re-use of circuit board design, fast time to market and design flexibility. Sensor performance is enhanced by the reduction in heat resulting from a separate co-processor chip while at the same time enabling high performance features. The AP0102AT supports 185-degree fisheye lens distortion correction, perspective correction and multiple view options such as split side view, triptych and trailer hitch. This co-processor works with ON Semiconductor's AR0132AT, AR0140AT and AR0136AT HDR automotive sensors, and is ideal for digital rear view cameras.

Features

- HDR

Applications

- Automotive

Part Electrical Specifications

| Product | Compliance | Status | Frame Rate (fps) | Video | Output Format | Compatible Sensors | Package Type | |
|--------------------------|------------------|--------|------------------|---------------|---------------|--------------------|--------------|-------------|
| AP0102AT2L00XPGA 0-DR | AEC Qualified | Active | 45 | 1080p/30 fps | RGB565 | AR0231 | VFPGA-100 | |
| | PPAP Capable | | | 720p/60 fps | YUV | AR0132AT | | |
| | | | | Pb-free | 1.2 MP/45 fps | RGB888 | | AR0140AT |
| | | | | | | | | AR0136AT |
| Halide free | | | | | | | | |
| AP0102AT2L00XPGA 0-TR | AEC Qualified | Active | 45 | 1080p/30 fps | YUV | AR0140AT | VFPGA-100 | |
| | PPAP Capable | | | 1.2 MP/45 fps | RGB888 | AR0136AT | | |
| | | | | Pb-free | 720p/60 fps | RGB565 | | AR0132AT |
| | | | | | | | | Halide free |

For more information please contact your local sales support at www.onsemi.com.

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