

AP0102AT

Image Signal Processor, 1 MP

Product Overview

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               | Status | Compliance  | Frame Rate (fps) | Video       | Output Format | Compat ible Sensors | Packag e Type | Case Outline | MSL Type | MSL Temp (°C) | Contain er Type | Contain er Qty. |
|-----------------------|--------|---|------------------|-------------|---------------|---------------------|---------------|--------------|----------|---------------|-----------------|-----------------|
| AP0102AT2L00 XPGA0-DR | Active |  | 45               | 720p/60 fps | RGB565        | AR0231              | VFBGA-100     | 138AH. PDF   | 3        | 260           | JTRAY           | 2600            |
| AP0102AT2L00 XPGA0-TR | Active |  | 45               | 720p/60 fps | RGB888        | AR0136 AT           | VFBGA-100     | 138AH. PDF   | 3        | 260           | REEL            | 3000            |