

# AP0101AT

## Image Signal Processor, 1 MP

### Product Overview

For complete documentation, see the data sheet.

AP0101AT is a dedicated automotive image co-processor that enables flexible camera platforms using high performance onsemi 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 AP0101AT is ideal for Automotive Digital Surround View Systems. It works with onsemi's AR0132AT HDR automotive sensor.

### Features

- High Dynamic Range

### Applications

- Automotive

| Part Electrical Specifications |           |                                                                                     |                  |                           |                |                                    |               |              |          |               |                 |                 |
|--------------------------------|-----------|-------------------------------------------------------------------------------------|------------------|---------------------------|----------------|------------------------------------|---------------|--------------|----------|---------------|-----------------|-----------------|
| Product                        | Status    | Compliance                                                                          | Frame Rate (fps) | Video                     | Output Format  | Compatible Sensors                 | Packag e Type | Case Outline | MSL Type | MSL Temp (°C) | Contain er Type | Contain er Qty. |
| AP0101AT2L00 XPGA0-AM-DR       | Obsolet e |  | 45               | 1.2 MP/45 fts 720p/60 fps | SMPTE 296M YUV | AR0132 AT AR0140 MT9M0 25 MT9M0 34 | VFBGA-81      | 138AG. PDF   | 3        | 260           | JTRAY           | 384             |
| AP0101AT2L00 XPGA0-AM-TR       | Obsolet e |  | 45               | 1.2 MP/45 fts 720p/60 fps | SMPTE 296M YUV | AR0132 AT AR0140 MT9M0 25 MT9M0 34 | VFBGA-81      | 138AG. PDF   | 3        | 260           | REEL            | 3000            |
| AP0101AT2L00 XPGA0-DR          | Active    |  | 45               | 1.2 MP/45 fts 720p/60 fps | SMPTE 296M YUV | AR0132 AT AR0140 MT9M0 25 MT9M0 34 | VFBGA-81      | 138AG. PDF   | 3        | 260           | JTRAY           | 3840            |
| AP0101AT2L00 XPGA0-TR          | Active    |  | 45               | 1.2 MP/45 fts 720p/60 fps | SMPTE 296M YUV | AR0132 AT AR0140 MT9M0 25 MT9M0 34 | VFBGA-81      | 138AG. PDF   | 3        | 260           | REEL            | 3000            |
| AP0101AT2L00 XPGA0-TR-E        | Obsolet e |  | 45               | 1.2 MP/45 fts 720p/60 fps | SMPTE 296M YUV | AR0132 AT AR0140 MT9M0 25 MT9M0 34 | VFBGA-81      | 138AG. PDF   | 3        | 260           | REEL            | 1               |