

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	VFBGA-100
	PPAP Capable			720p/60 fps	YUV	AR0132AT	
	Pb-free			1.2 MP/45 fps	RGB888	AR0140AT	
	Halide free					AR0136AT	
AP0102AT2L00XPGA 0-TR	AEC Qualified	Active	45	1080p/30 fps	YUV	AR0140AT	VFBGA-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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