



**THE DATASHEET OF  
AR0132AT6C00XPEA0-TPBR**





## Product Overview

### AR0132AT: 1.2 MP 1/3" CMOS Image Sensor

For complete documentation, see the [data sheet](#)

#### Product Description

ON Semiconductor's AR0132AT 1/3-inch CMOS digital image sensor with an active-pixel array of 1280H x 960V. It captures images in either linear or high dynamic range modes, with a rolling-shutter readout. It includes sophisticated camera functions such as auto exposure control, windowing, and both video and single frame modes. It is designed for both low light and high dynamic range scene performance. It is programmable through a simple two-wire serial interface. The AR0132AT produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including surveillance and HD video. This sensor is compatible with ON Semiconductor's automotive image co-processors which provides megapixel HDR image processing.

#### Features

- High Dynamic Range

#### Applications

- Automotive



Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0132AT6B00XPD20	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75			
AR0132AT6B00XPW90	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	
AR0132AT6C00XPEA0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-DPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-DRBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-TB-TPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75			IBGA-63
AR0132AT6C00XPEA0-TPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-TPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-TRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPEA0-TRBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	IBGA-63
AR0132AT6C00XPW90	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB	
AR0132AT6G00XPEA0-AA-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active									IBGA-63
AR0132AT6G00XPEA0-DPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB and Mono	IBGA-63

AR0132AT6G00XPEA0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
AR0132AT6G00XPEA0-DRBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
AR0132AT6G00XPEA0-TPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB and Mono	IBGA-63
AR0132AT6G00XPEA0-TRBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB and Mono	IBGA-63
AR0132AT6M00XPEA0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Mono	IBGA-63
AR0132AT6M00XPEA0-DPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Mono	IBGA-63
AR0132AT6M00XPEA0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Mono	IBGA-63
AR0132AT6M00XPEA0-DRBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Mono	IBGA-63
AR0132AT6M00XPEA0-TPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Mono	IBGA-63
AR0132AT6M00XPEA0-TPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Mono	IBGA-63
AR0132AT6R00XPEA0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
AR0132AT6R00XPEA0-DPBR-E	Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB and Mono	IBGA-63
AR0132AT6R00XPEA0-DPBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
AR0132AT6R00XPEA0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
AR0132AT6R00XPEA0-DRBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63

AR0132AT6R00XPEA0 -TB-TPBR	AEC Qualified	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
	PPAP Capable										
	Pb-free										
	Halide free										
AR0132AT6R00XPEA0 -TPBR	AEC Qualified	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
	PPAP Capable										
	Pb-free										
	Halide free										
AR0132AT6R00XPEA0 -TPBR-E	Pb-free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB and Mono	IBGA-63
	Halide free										
AR0132AT6R00XPEA0 -TRBR	AEC Qualified	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		Other	IBGA-63
	PPAP Capable										
	Pb-free										
	Halide free										
AR0132AT6R00XPEA0 -TRBR-E	Pb-free	Active	CMOS	1.2	60	1/3 inch	Electronic Rolling	3.75 x 3.75		RGB and Mono	IBGA-63
	Halide free										

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