



**THE DATASHEET OF  
AR0822NPSC10SMTA0-DP**



# AR0822

## CMOS Image Sensor, 4K/ 8 MP

### Product Overview

For complete documentation, see the data sheet.

The AR0822 is an 8-megapixel (MP) stacked 1/1.8inch (8.81mm diagonal) BSI (back-side illuminated) CMOS digital image sensor based upon a 2.0 μm pixel. It features an activepixel array of 3840 (H) x 2160 (V) and is capable of 4K video at 60 frames-per-second (fps), capturing images in either linear or eHDR modes (120 dB) with a rollingshutter readout.

### Features

- 4K (8 MP) at 60 fps for Excellent Video Performance
- Fast, Full-Resolution Video Capture of 3840 X 2160 at 30 fps in 3- Exposure embedded High Dynamic Range (eHDR) up to 120 dB
- Advanced On-Sensor eHDR Reconstruct with Flexible Exposure Ratio Control
- Two Exposure Line Li-HDR Output
- Wake-on-Motion Feature
- Extended Dynamic Range (eDR)
- Intelligent Lineralization to Minimize Motion Artifacts and LED Flickers

### Applications

- 4K/ 8 MP Imaging

### End Products

- Security and Surveillance Cameras
- Robotics
- Vehicle Dashboard Cameras

### Part Electrical Specifications

Product	Status	Compliance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Output Interface	Color	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0822NPSC10 SMTA0-DR	Active		CMOS	8	90	1/8 inch	Rolling	2.0 x 2.0	MIPI	RGB	PBG A75 14x9.5	117C U.P DF	4	260	JTR AY	1470
AR0822NPSC10 SMTA0-DP	Active		CMOS	8	90	1/8 inch	Rolling	2.0 x 2.0	MIPI	RGB	PBG A75 14x9.5	117C U.P DF	4	260	JTR AY	1470
AR0822NPSM1 OSMTA0-DP	Active		CMOS	8	90	1/8 inch	Rolling	2.0 x 2.0	MIPI	RGB	PBG A75 14x9.5	117C U.P DF	4	260	JTR AY	1470
AR0822NPSM1 OSMTA0-DR	Active		CMOS	8	90	1/8 inch	Rolling	2.0 x 2.0	MIPI	RGB	PBG A75 14x9.5	117C U.P DF	4	260	JTR AY	1470

## Looking for pricing, stock, or lifecycle information?

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