



## KLT-Q4MF-AR0521 V1.0

**On Semiconductor AR0521 MIPI Interfaccia Messa a fuoco fissa 5MP M12  
Modulo telecamera**



<b>Modulo telecamera n.</b>	<b>KLT-Q4MF-AR0521 V1.0</b>
<b>Sensore d'immagine</b>	AR0521
<b>EFL</b>	6 mm
<b>F.NO</b>	1.4
<b>Pixel</b>	2592 x 1944
<b>Vista ad angolo</b>	72°(D) 60°(H) 34°(V)
<b>Tipo di lente</b>	1/2.5 pollice
<b>Dimensioni dell'obiettivo</b>	14.00 x 14.00 x 24.25 mm
<b>Dimensione del modulo</b>	50.00 x 24.00 mm
<b>Tipo di modulo</b>	Messa a fuoco fissa
<b>Interfaccia</b>	MIPI

**Connettore di accoppiamento Codice. DF30FC-30DS-0.4V**



Connettore di accoppiamento sulla scheda principale. Venduto separatamente.

## Product Overview

### AR0521: Image Sensor, CMOS, 1/2.5" 5.1 MP High Performance

For complete documentation, see the data sheet.

The AR0521 is a 1/2.5-inch CMOS digital image sensor with an active-pixel array of 2592 (H) x 1944 (V). It captures images in either linear or high dynamic range modes with a rolling-shutter readout, and includes sophisticated camera functions such as binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range performance, with line interleaved T1/T2 read out to support off chip HDR in an ISP chip. The AR0521 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a security applications.

#### Features

- 5 Mp at 60 fps for Excellent Video Performance
- Small Optical Format (1/2.5-inch)
- 1440p Mode for 16:9 Video
- Superior Low-light Performance
- 2.2  $\mu$ m Back Side Illuminated Pixel Technology
- Supports Line Interleaved T1/T2 Readout to Enable HDR Processing in ISP Chip
- Support for External Mechanical Shutter
- On-chip Phase-locked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction
- Slave Mode for Precise Frame-rate Control

For more features, see the data sheet

#### Applications

- Video Surveillance
- High Dynamic Range Imaging

#### End Products

- Security Camera
- Action camera
- Car DVR

## Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0521SR2C09SURA0-DP	Pb-free Halide free	Product Preview	CMOS	5.1	60	1/2.5 inch	Electronic Rolling and Global Reset Release	2.2 x 2.2	Multi	RGB	PLCC-52
AR0521SR2C09SURA0-DP-E	Pb-free Halide free	Active	CMOS	5.1	60	1/2.5 inch	Electronic Rolling and Global Reset Release	2.2 x 2.2	Multi	RGB	PLCC-52
AR0521SR2C09SURA0-DR	Pb-free Halide free	NEW	CMOS	5.1	60	1/2.5 inch	Electronic Rolling and Global Reset Release	2.2 x 2.2	Multi	RGB	PLCC-52
AR0521SR2C09SURA0-DR-E	Pb-free Halide free	Active	CMOS	5.1	60	1/2.5 inch	Electronic Rolling and Global Reset Release	2.2 x 2.2	Multi	RGB	PLCC-48
AR0521SR2M09SURA0-DP	Pb-free Halide free	Product Preview	CMOS	5.1	60	1/2.5 inch	Electronic Rolling and Global Reset Release	2.2 x 2.2	Multi	Mono	PLCC-52
AR0521SR2M09SURA0-DP-E	Pb-free Halide free	Active	CMOS	5.1	60	1/2.5 inch	Electronic Rolling and Global Reset Release	2.2 x 2.2	Multi	Mono	PLCC-52
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For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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