

KLT-Q4MF-AR0521 V1.0
On Semiconductor AR0521 MIPI Interface Mise au point fixe
5MP M12 Module de caméra



Module de caméra No.	KLT-Q4MF-AR0521 V1.0
Capteur d'image	AR0521
EFL	6 mm
F.NO	1.4
Pixel	2592 x 1944
Angle de vue	72°(D) 60°(H) 34°(V)
Type d'objectif	1/2.5 pouce
Dimensions de l'objectif	14.00 x 14.00 x 24.25 mm
Taille du module	50.00 x 24.00 mm
Type de module	Mise au point fixe
Interface	MIPI

Référence du connecteur d'accouplement. DF30FC-30DS-0.4V



Connecteur d'accouplement sur la carte principale. Vendu séparément.

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 μm 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.

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