AR0221

CMOS Image Sensor, 2.1 MP, 1/1.7"

Product Overview

For complete documentation, see the data sheet.

ON Semiconductor AR0221 is a 1/1.7-inch CMOS digital image sensor with an active-pixel array of 1928 (H) × 1088 (V). This advanced image sensor captures images in either linear or high dynamic range, with rolling-shutter readout. It includes sophisticated camera functions such as in-pixel binning, windowing and both video and single frame modes. AR0221 is optimized for both low light and high dynamic range scene performance with 4.2um BSI pixels. The sensor includes flexible functions such as in-pixel binning, windowing, and both video and single frame modes. The device is programmable through a simple two-wire serial interface, and supports both MIPI and HiSPi output interfaces.

Features

- 2.1Mp at 60 fps for Excellent Video Performance
- Optical Format (1/1.7-inch)
- 1080p Mode for 16:9 Video
- Superior Low-light Performance
- 4.2um large Back Side Illuminated Pixel Technology
- Supports Line Interleaved T1/T2/T3 Readout to Enable HDR Processing in ISP Chip at 1080P and 30fps
- On-chip Phase-locked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction
- Slave Mode for Precise Frame-rate Control
- Data Interfaces: - 4-lane MIPI CSI-2 and HiSpi SLCS
  For more features, see the data sheet

Applications

- Video Surveillance
- High Dynamic Range Imaging

End Products

- Security Camera
- Action camera
- Car DVR
- Body camera

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0221SR2C00SUEA0-DPBR		Pb H	Active	CMOS	2.1	60	1/2 inch	Electronic Rolling and Global Reset Release	4.2 x 4.2	Multi	RGB	IBGA-87
AR0221SR2C00SUEA0-DPBR1		Pb H	Active	CMOS	2.1	60	1/2 inch	Electronic Rolling and Global Reset Release	4.2 x 4.2	Multi	RGB	IBGA-87
AR0221SR2C00SUEA0-DRBR		Pb H	Active	CMOS	2.1	60	1/2 inch	Electronic Rolling and Global Reset Release	4.2 x 4.2	Multi	RGB	IBGA-87

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Optical Sensor Development Tools *category:*

Click to view products by ON Semiconductor *manufacturer:*

Other Similar products are found below :

MT9V034C12STCH-GEVB MT9V115EBKSTCH-GEVB 416015300-3 ISL29102IROZ-EVALZ MT9M021IA3XTMH-GEVB AR1820HSSC12SHQAH3-GEVB AR1335CSSC11SMKAH3-GEVB MAXCAMOV10640# MT9M031I12STMH-GEVB TSL2581CS-DB TMD3700-DB NANOUSB2.2 ASX340AT3C00XPEDH3-GEVB AR0144ATSM20XUEAH3-GEVB AR0144CSSC00SUKAH3-GEVB AR0522SRSC09SURAH3-GEVB AR0522SRSM09SURAH3-GEVB AR0521SR2C09SURAH3-GEVB MARS1-MAX9295A-GEVK MARS1-MAX9296B-GEVB ISL29112IROZ-EVALZ AR0233AT2C17XUEAH3-GEVB AR0431CSSC14SMRAH3-GEVB MARS-DEMO3-MIPI-GEVB TCS3430-DB AR0234CSSC00SUKAH3-GEVB AR0130CSSM00SPCAH-GEVB AR0330CM1C00SHAAH3-GEVB EVALZ-ADPD2212 TMD2772EVM TMG3993EVM MIKROE-2103 TSL2672EVM 1384 MT9M114EBLSTCZDH-GEVB SEN0043 SEN0162 TMD2771EVM TMD3782EVM TSL4531EVM 1918 AS7225 DEMO KIT SEN0097 SEN0212 SEN0228 AR0134CSSC00SUEAH3-GEVB AP0100AT2L00XUGAH3-GEVB AR0144CSSM20SUKAH3-GEVB 725-28915 EVAL-ADPD1081Z-PPG