

Product Overview

AR0261: CMOS Image Sensor, 2 MP, 1/6"

For the latest data sheet, please visit www.sunnywale.com

ON Semiconductor's AR0261 is a 2-megapixel sensor delivering native 1080p resolution with exceptional image quality and meets strict form factor requirements (z-height less than 3.5mm) for ultra-thin, full HD video applications within the Mobile, Tablet and Notebook market. This sensor has a 1/6-inch optical format and a new 1.4-micron pixel featuring ON Semiconductor A-PixHS(tm) technology to provide excellent low-light performance. The new sensor provides HD video at 1080p/60fps or 720p/60fps critical for sharp, clear video capture.

Features

- · 2 MP CMOS sensor with advanced 1.4um pixel BSI technology
- · Data interfaces: 1 and 2 lane mobile industry processor interface (MIPI)
- Bit-depth compression available for MIPI Interface:10-8 and 10-6 to enable lower bandwidth receivers for full frame rate applications
- · 3D synchronization controls to enable stereo video capture
- · Interlaced multi-exposure readout enabling High Dynamic Range (HDR) still and video applications
- · 8.8kbits one-time programmable memory (OTPM) for storing shading correction coefficients and module information
- Programmable controls: gain, horizontal and vertical blanking, auto black level offset correction, frame size/rate, exposure, leftright and top-bottom image reversal, window size, and panning
- · On-chip dual phase-locked loop (PLL) oscillator structure for improved EMI characteristics
- Superior low-light performance
- Low dark current
 For more features, and the d
 - For more features, see the data sheet

Applications

- Mobile
- Consumer
- Medical

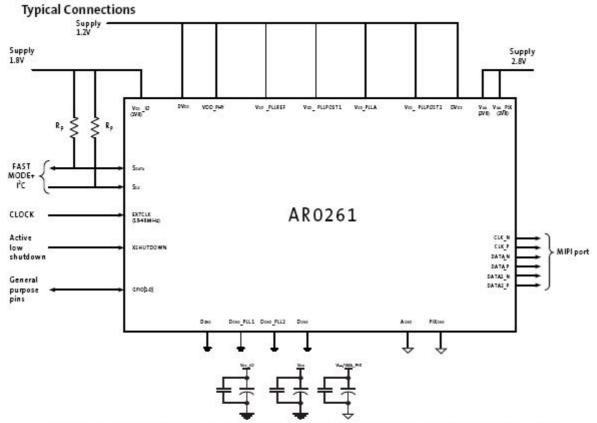
End Products

- Smart Phone
- Digital Still camera
- Wearable devices

Part Electrical Specifications												
Product	Pricing (\$/Unit)	Compliance	Status	Туре	Megapix els	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0261CSSM00SMD2 0		Pb-free Halide free non AEC-Q and PPAP	Active	CMOS	2.1	60	1/6 inch	Electroni c Rolling	1.4 x 1.4	MIPI	Mono	
AR0261CSSM00SMKA 0-CR-E		Pb-free Halide free	Active									ODCSP- 35

Halide free non AEC-Q and PPAP

Application Diagram



- All power supplies must be adequately decoupled. The order of preference is as follows: 2.8V supply - 1.0μF and 0.1μF; 1.2V supply - 1.0μF and 0.1μF; 1.8V supply - 0.1μF. The minimum recommended decoupling configuration is 0.1μF per power supply.
 - Aptina recommends a 1.5kΩ resistor value for the two-wire serial interface RPULL-UP; however, other values may be used. refer to section 7.1 pull-up resister sizing section of the UM10204 I²C specification in http://www.nxp.com/documents/user_manual/UM10204.pdf
 - 3. All inputs must be configured with VDD_IO.
 - 4. Mechanical pads are not shown in this figure.
 - 5. VAA and VAA_PIX may be tied together.

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Notes:

1. All power supplies must be adequately decoupled. The order of preference is as follows: 2.8V supply - 1.0μ F and 0.1μ F; 1.2V supply - 1.0μ F and 0.1μ F; 1.8V supply- 0.1μ F. The minimum recommended decoupling configuration is 0.1μ F per power supply.

2. Aptina recommends a $1.5k\Omega$ resistor value for the two-wire serial interface RPULL-UP; however, other values may be used. refer to section 7.1 pull-up resister sizing section of the UM10204 I2c specification in sunnywale.com

- 3. All inputs must be configured with VDD_IO.
- 4. Mechanical pads are not shown in this figure.
- 5. VAA and VAA PIX may be tied together.