



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Product Overview

AR1820HS: CMOS Image Sensor, 18 MP, 1/2.3"

For complete documentation, see the data sheet.

The AR1820HS is an 18 megapixel, 1/2.3-inch format, 1.25 um pixel sensor using ON Semiconductor's A-PixHS™; BSI technology. With a variety of operating modes, the AR1820HS can dynamically optimize resolution, low-light and frame rate for environmental conditions. For example, the camera could run in full 18 megapixel resolution at 24 fps under high-light conditions, and switch to a 2:1 summing and 2:1 binning at 1080p 60 frames-per-second mode for superb low-light performance under darker conditions. With high resolution and frame rates, and a variety of flexible modes, the AR1820HS sensor is excellent for many applications such as surveillance, sports cameras and mobile handsets.

Applications

- Camera
- Security

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR1820HSSC00SHEA0-DP1	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC00SHEA0-DR	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DP	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DP1	Pb-free Halide free	NEW	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DR	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DR1	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SMD20	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	HiSPi™ MIPI	RGB	
AR1820HSSC31SMD20	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	HiSPi™ MIPI	RGB	

For more information please contact your local sales support at www.onsemi.com.

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