

# AR1820HS

## CMOS Image Sensor, 18 MP, 1/2.3"

### Product Overview

For complete documentation, see the data sheet.

The AR1820HS is an 18 megapixel, 1/2.3-inch format, 1.25  $\mu\text{m}$  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	Status	Compliance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size ( $\mu\text{m}$ )	Output Interface	Color	Family	Packaging Type	Case Outline	MSL Type	MSL Temp ( $^{\circ}\text{C}$ )	Container Type	Container Qty.
AR1820HSSC00 SHEA0-DP1	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	IBGA-60	503 AC, PDF	4	260	JTRAY	240
AR1820HSSC00 SHEA0-DR	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	IBGA-60	503 AC, PDF	4	260	JTRAY	2400
AR1820HSSC12 SHEA0-DP	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	IBGA-60	503 AC, PDF	4	260	JTRAY	2400
AR1820HSSC12 SHEA0-DP1	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	IBGA-60	503 AC, PDF	4	260	JTRAY	240
AR1820HSSC12 SHEA0-DR	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	IBGA-60	503 AC, PDF	4	260	JTRAY	2400
AR1820HSSC12 SHEA0-DR1	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	IBGA-60	503 AC, PDF	4	260	JTRAY	240
AR1820HSSC12 SMD20	Last Shipments		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	-	-	NA	0	MTFRM	1
AR1820HSSC31 SMD20	Obsolete		CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI	RGB	-	-	-	NA	0	MTFRM	1