

AR0135CS

CMOS Image Sensor, Digital, Global Shutter, 1.2 MP, 1/3"

Product Overview

For complete documentation, see the data sheet.

This 1/3-inch format, 1.2 MP imaging device has been designed to address the challenging requirements of Industrial, consumer and IoT applications. The new global shutter sensor allows the camera to “freeze” fast moving scene data, and ensures effective synchronization with pulsed light sources. The AR0135 sensor incorporates a new innovative global shutter pixel design, with 10X lower dark current and 4X higher shutter efficiency vs. previous generation products. These improvements allow the sensor to produce clear, low-noise images, in both low-light and bright scenes, and in high temperature environments. This performance enables the required eye tracking and gesture detection functionality in 3D scanner, gesture recognition devices.

Features

- ON Semiconductor’s Next Generation Global Shutter Technology
- Superior Low-light Performance
- HD Video (720p60)
- Video/Single Frame Mode
- Flexible Row-skip Modes
- On-chip AE and Statistics Engine
- Parallel and Serial Output
- Support for External LED or Flash
- Auto Black Level Calibration
- Context Switching

For more features, see the data sheet

Applications

- Barcode scanner
- 3D scanning
- Positional tracking
- Iris Scanning
- Augmented Reality

Part Electrical Specifications

Product	Status	Compliance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0135CS2C00 SUD20	Obsolete		CMOS	1.2	60	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	-		NA	0	MTFRM	1
AR0135CS2C00 SUEA0-DPBR	Active		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2C00 SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2C00 SUEA0-DRBR	Active		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2C00 SUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2C19 SUD20	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	-		NA	0	MTFRM	1
AR0135CS2C19 SUEA0-DPBR	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2C19 SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2C19 SUEA0-DRBR	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2C19 SUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	RGB	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2M0 OSUD20	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	-		NA	0	MTFRM	1
AR0135CS2M0 OSUEA0-DPBR	Active		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2M0 OSUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2M0 OSUEA0-DRBR	Active		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2M0 OSUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2M25 SUD20	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	-		NA	0	MTFRM	1
AR0135CS2M25 SUEA0-DPBR	Active		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600
AR0135CS2M25 SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	260
AR0135CS2M25 SUEA0-DRBR	Active		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	Parallel	Monochrome	IBG A-63	503 AZ.P DF	3	260	JTRAY	2600

AR0135CS2M25 SUEA0-DRBR1	Obsolete		CM OS	1.2	-	1/3 inch	Glob al Shut ter	3.75 x 3.75	Para llel	Mon o	IBG A- 63	503 AZ.P DF	3	260	JTR AY	260
AR0135CS2M25 SUEA0-TPBR	Active		CM OS	1.2	-	1/3 inch	Glob al Shut ter	3.75 x 3.75	Para llel	Mon o	IBG A- 63	503 AZ.P DF	3	260	REE L	200 0
AR0135CS2M25 SUEA0-TRBR	Obsolete		CM OS	1.2	-	1/3 inch	Glob al Shut ter	3.75 x 3.75	Para llel	Mon o	IBG A- 63	503 AZ.P DF	3	260	REE L	200 0