AR0544

Image Sensor, 5 MP, Rolling Shutter, Hyperlux™ LP

Product Overview

For complete documentation, see the data sheet.

AR0544, belongs to **onsemi's** Hyperlux LP product family, is a 1/4.2inch Back-Side Illuminated (BSI) Stacked CMOS digital image sensor with a 2592 x 1944 activepixel array. This advanced sensor captures images in either Linear or enhanced Dynamic Range (eDR) modes, with a rollingshutter readout. The AR0544 is architected & designed to deliver highquality performance consuming very low power. It is supported by a 1.4 m BSI pixel from **onsemi** and delivers excellent performance in lowlight & NIR wavelengths. The features of the AR0544 provide a powerful data capturing device at the edge that can be programmed through several options to deliver optimal bandwidth at very low power.

Features

- Lowest Power Consumption among Comparable Offerings in the Industry
- Enhanced NIR Response in 850nm & 940nm Wavelength
- Wake on Motion (WOM)
- Multiple Subsampling Modes - Binning, summing, Skipping, Windowing
- Multiple Functional Modes - Global Reset Release (GRR), Trigger, Context Switching
- enhanced Dynamic Range (eDR) & Line Interleaved HDR (LI-HDR) Modes

Applications

- Videoconferencing
- Smart Access
- Virtual & Augmented Reality
- Machine Vision
- Retail Analytics

End Products

- VC Endpoints, Webcam
- Video Doorbells
- AR/VR/XR Headsets
- Machine Vision Cameras
- Retail In-store Cameras

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Part Electrical Specifications

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Product	Status	Compilance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Family	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0544CSSC11SMD20	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB	Hyperlux LP	-		NA	0	MTFRM	1
AR0544CSSC11SMD20-RC1	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB	Hyperlux LP	-		NA	0	MTFRM	1
AR0544CSSC11SMKA1-CP	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB	Hyperlux LP	ODCSP 47 4.67x3.68x0.63, 0.50P	570DD.PDF	4	245	CTRAY	3000
AR0544CSSC11SMKA1-CP2	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB	Hyperlux LP	ODCSP 47 4.67x3.68x0.63, 0.50P	570DD.PDF	4	245	CTRAY	50
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AR0544CSSC33SMD20	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB	Hyperlux LP	-		NA	0	MTFRM	1
AR0544CSSC33SMD20-RC1	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB	Hyperlux LP	-		NA	0	MTFRM	1

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AR0544CSSH11SMD20	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB-IR	Hyperlux LP	-		NA	0	MTFRM	1
AR0544CSSH11SMD20-RC1	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	RGB-IR	Hyperlux LP	-		NA	0	MTFRM	1
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AR0544CSSM11SMKA1-CP2	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	Mono	Hyperlux LP	ODCSP47 4.67x3.68x0.63, 0.50P	570DD.PDF	4	245	CTRAY	50
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