

AR0830

Image Sensor, 8.3 MP, Rolling Shutter, Hyperlux™ LP

Product Overview

For complete documentation, see the data sheet.

AR0830, belongs to **onsemi's** Hyperlux LP product family, is a 1/2.9inch Back-Side Illuminated (BSI) Stacked CMOS digital image sensor with a 3840 x 2160 activepixel array. This advanced sensor captures images in either linear or enhanced Dynamic Range (eDR) modes, with a rollingshutter readout. The AR0830 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 AR0830 provides 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

Part Elec	Part Electrical Specifications															
Product	Status	Compilance	Тур	Meg apix els	Fra me Rate (fps)	Opti cal For mat	Shut ter Typ e	Pixel Size (µm)	Outp ut Inter face	Colo r	Pack age Typ e	Cas e Outli ne	MSL Typ e	MSL Tem p (°C)	Cont aine r Typ e	Cont aine r Qty.
AR0830CSSC11 SMD20	Active	13 (2)	CM OS	8.3	60	1/3 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	1.4 x 1.4	MIPI	RGB	-		NA	0	MTF RM	1
AR0830CSSC11 SMKA0-CP-E	Consult Sales Office	1 20	CM OS	8.3	60	1/3 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	1.4 x 1.4	MIPI	RGB	CSP 59 6.41 x3.9 1x0. 62, 0.50 P	570 AV.P DF	5	260	CTR AY	1
AR0830CSSC3 5SMD20	Active	1 (1)	CM OS	8.3	60	1/3 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	1.4 x 1.4	MIPI	RGB	-		NA	0	MTF RM	1
AR0830CSSH11 SMKA0-CP-E	Consult Sales Office	4 (2)	CM OS	8.3	60	1/3 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	1.4 x 1.4	MIPI	RGB -IR	ODC SP5 9 6.41 x3.9 1x0. 63, 0.50 P	570 AY.P DF	4	245	CTR AY	1
AR0830CSSM11 SMKA0-CP-E	Consult Sales Office	(1) (2)	CM OS	8.3	60	1/3 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	1.4 x 1.4	MIPI	Mon o	CSP 59 6.41 x3.9 1x0. 62, 0.50 P	570 AV.P DF	5	260	CTR AY	1