Product Overview

XGS 8000: CMOS Image Sensor, 8.8 MP (4k / UHD resolution), Global Shutter

For complete documentation, see the data sheet.

The XGS 8000 is a 8.8 Mp (4096 x 2160) 4k / UHD resolution Global Shutter CMOS image sensor in 1/1.1 inch optical format, supporting up to 120 frame per second readout at full resolution.

The device provides high resolution, global shutter imaging with high readout speed for industrial imaging and Machine Vision customers. A compact package design and low power footprint make the device compatible with a 29 x 29 mm2 camera footprint. Two speed grades are available to match device output to key computer interfaces and application requirements.

The XGS 8000 shares a common design and footprint with other members of the XGS family, allowing one camera design to support multiple resolutions to simplify and speed time to market for new camera designs.

The XGS 8000 is available in a 163-pin LGA package in both monochrome and Bayer color configurations.

Features

- Member of X-Class platform
- Advanced 3.2 µm global shutter pixel
- Energy efficient design
- Compact package
- Available speed grades

Benefits

- Allows one camera design to support multiple resolutions and multiple pixel designs
- High resolution with high image quality and uniformity
- Reduced power and thermal footprints
- Compatible with 29 x 29 mm2 camera design
- Match to key computer interface and application requirements

Applications

- Image capture

End Products

- Broadcast cameras
- Industrial cameras and systems
- Security cameras and systems
- Inspection system (food, bottles, recycling labels, etc.)
- Machine Vision camera

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
NOIX1SE8000B-LTI	Pb-free Halide free	NEW	CMOS	8.8	128	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CLGA-163
NOIX1SE8000B-LTI1	Pb-free Halide free	NEW	CMOS	8.8	128	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CLGA-163
NOIX1SN8000B-LTI	Pb-free Halide free	NEW	CMOS	8.8	128	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CLGA-163
NOIX1SN8000B-LTI1	Pb-free Halide free	NEW	CMOS	8.8	128	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CLGA-163
NOIX2SE8000B-LTI	Pb-free Halide free	NEW	CMOS	8.8	75	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CLGA-163
NOIX2SE8000B-LTI1	Pb-free Halide free	NEW	CMOS	8.8	75	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CLGA-163
NOIX2SN8000B-LTI	Pb-free Halide free	NEW	CMOS	8.8	75	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CLGA-163
NOIX2SN8000B-LTI1	Pb-free Halide free	NEW	CMOS	8.8	75	1/1.1 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CLGA-163

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

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