

Product Overview

XGS 45000: CMOS Image Sensor, 44.7 Mp, Global Shutter

For complete documentation, see the data sheet.

The XGS 45000 is a 44.7 Mp (8192 x 5460) CMOS image sensor in Super 35 mm optical format, supporting up to 48 frames per second readout with 12-bit output at full resolution, and up to 60 fps with 8K video format compatible ROI output (8192 x 4320). This device provides high resolution, global shutter imaging with high readout speed and a low power footprint for industrial imaging customers. Three speed grades are available to match device output to key computer interfaces and application requirements. The XGS 45000 shares a common design and footprint with other members of the XGS family, such as the XGS 20000 or XGS 30000, allowing one camera design to support multiple resolutions to simplify and speed time to market for new camera designs. The XGS 45000 is available in a 251-pin \diamond PGA package in both monochrome and Bayer color configurations.

Features

- Advanced 3.2 μ m global shutter pixel
- Available speed grades
- Energy efficient design

Applications

- Image capture

Benefits

- High resolution with high image quality and uniformity
- Match to key computer interfaces and application requirements
- Reduced power and thermal footprints

End Products

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

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μ m)	Output Interface	Color	Package Type
NOIX0SE045KB-GTI		Pb-free	Active	CMOS	44.7	48	Super 35 mm	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CPGA251 44.40x37.25
		Halide free non AEC-Q and PPAP										
NOIX0SN045KB-GTI		Pb-free	Active	CMOS	44.7	48	Super 35 mm	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CPGA251 44.40x37.25
		Halide free non AEC-Q and PPAP										
NOIX1SE045KB-GTI		Pb-free	Active	CMOS	44.7	31	Super 35 mm	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CPGA251 44.40x37.25
		Halide free non AEC-Q and PPAP										
NOIX1SN045KB-GTI		Pb-free	Active	CMOS	44.7	31	Super 35 mm	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CPGA251 44.40x37.25
		Halide free non AEC-Q and PPAP										
NOIX2SE045KB-GTI		Pb-free	Active	CMOS	44.7	12	Super 35 mm	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CPGA251 44.40x37.25
		Halide free non AEC-Q and PPAP										
NOIX2SN045KB-GTI		Pb-free	Active	CMOS	44.7	12	Super 35 mm	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CPGA251 44.40x37.25
		Halide free non AEC-Q and PPAP										

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

Created on: 3/3/2021