

## XGS 20000

# CMOS Image Sensor, 20.2 Mp, Global Shutter

## Product Overview

For complete documentation, see the data sheet.

The device provides high resolution, global shutter imaging with high readout speed and a low power footprint for industrial imaging customers. Two speed grades are available to match device output to key computer interfaces and application requirements. The XGS 20000 shares a common design and footprint with other members of the XGS family, such as the XGS 30000 or XGS 45000, allowing one camera design to support multiple resolutions to simplify and speed time to market for new camera designs. The XGS 20000 is available in a 251-pin  $\mu$ PGA package in both monochrome and Bayer color configurations.

### Features

- Advanced 3.2  $\mu$ m global shutter pixel
- Energy efficient design
- Available speed grades
- 1:1 (square) aspect ratio

### Applications

- Image capture

### Benefits

- High resolution with high image quality and uniformity
- Reduced power and thermal footprints
- Match to key computer interfaces and application requirements
- Maximize image capture within lens optical circle

### 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 ( $\mu$ m)	Output Interface	Color	Package Type
NOIX0SE020KB-GTI			Active	CMOS	20.3	58	1.3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CPGA2 51 44.40x 37.25
NOIX0SN020KB-GTI			Active	CMOS	20.3	58	1.3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CPGA2 51 44.40x 37.25
NOIX1SE020KB-GTI			Active	CMOS	20.3	38	1.3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Bayer Color	CPGA2 51 44.40x 37.25
NOIX1SN020KB-GTI			Active	CMOS	20.3	38	1.3 inch	Global Shutter	3.2 x 3.2	HiSPi™	Mono	CPGA2 51 44.40x 37.25