GLR1205BSI-S Product Flyer



SINGLE LINE 512 RESOLUTION GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR WITH 12.5 μm x 250 μm RECTANGULAR PIXELS

GLR1205BSI-S is a single-line linear image sensor with rectangular pixels and analog output designed for use in displacement sensors.

The sensor's 512 pixels are each 12.5 μ m (H) x 250 μ m (V) and provide a full well capacity of 2.8 million electrons and a maximum signal-to-noise ratio of 71.1 dB. The large pixel also increases the photosensitive area and facilitates easy alignment of the laser spot. Backside thinning technology enables a peak quantum efficiency of 95%, and almost 50% at 650 nm. A charge transfer time of only 2.5 μ s ensures excellent lag performance. The single analog output allows image processing using an MCU module, and the small CSP package enables the design of a compact displacement sensor.

The GLR1205BSI-S image sensor is designed for the accurate detection of surfaces and precise distance measurement under a variety of lighting conditions.

Key Feature

- · BSI linear sensor
- · High sensitivity
- Rectangular pixel
- Large FWC
- CSP package

Applications

- · Logistics & Positioning
- Automation & Inspection





Sensor Specifications

Resolution	512(H) x 1(V)	Optical format	0.4"
Pixel size	12.5 µm x 250 µm	Photo-sensitive area	6.4 mm x 0.25 mm
Shutter Type	Global Shutter	Quantum efficiency	95%
Saturation Output Voltage	2.1 V	Temporal noise	0.58 mV rms
Dark Current	TBD	Dynamic range	3620:1
Max. Line rate	9.43 kHz	Output format	Analog output
Data rate	5 MHz	Channel multiplexing	NA
Chroma	Mono	Power consumption	0.09 W
I/O voltage	3.3 V	Package	17-pin CSP (7.39 mm x 1.15 mm)

Ordering Information

Sensor Part	Description	Grade
GLR1205BSI-BBM-NQN-GBE	Mono, No Microlens, 17-pin CSP Package, Non-Anti-Reflective Coating Sealed D263® T eco glass	ES

Contact Gpixel HQ

Building #5, Optoelectronic Information Industrial Park, #7691 Ziyou Road, Changchun, Jilin, China. Tel: +86-0431-85077785 Email: info@gpixel.com Website: www.gpixel.com Scan me for more information:

