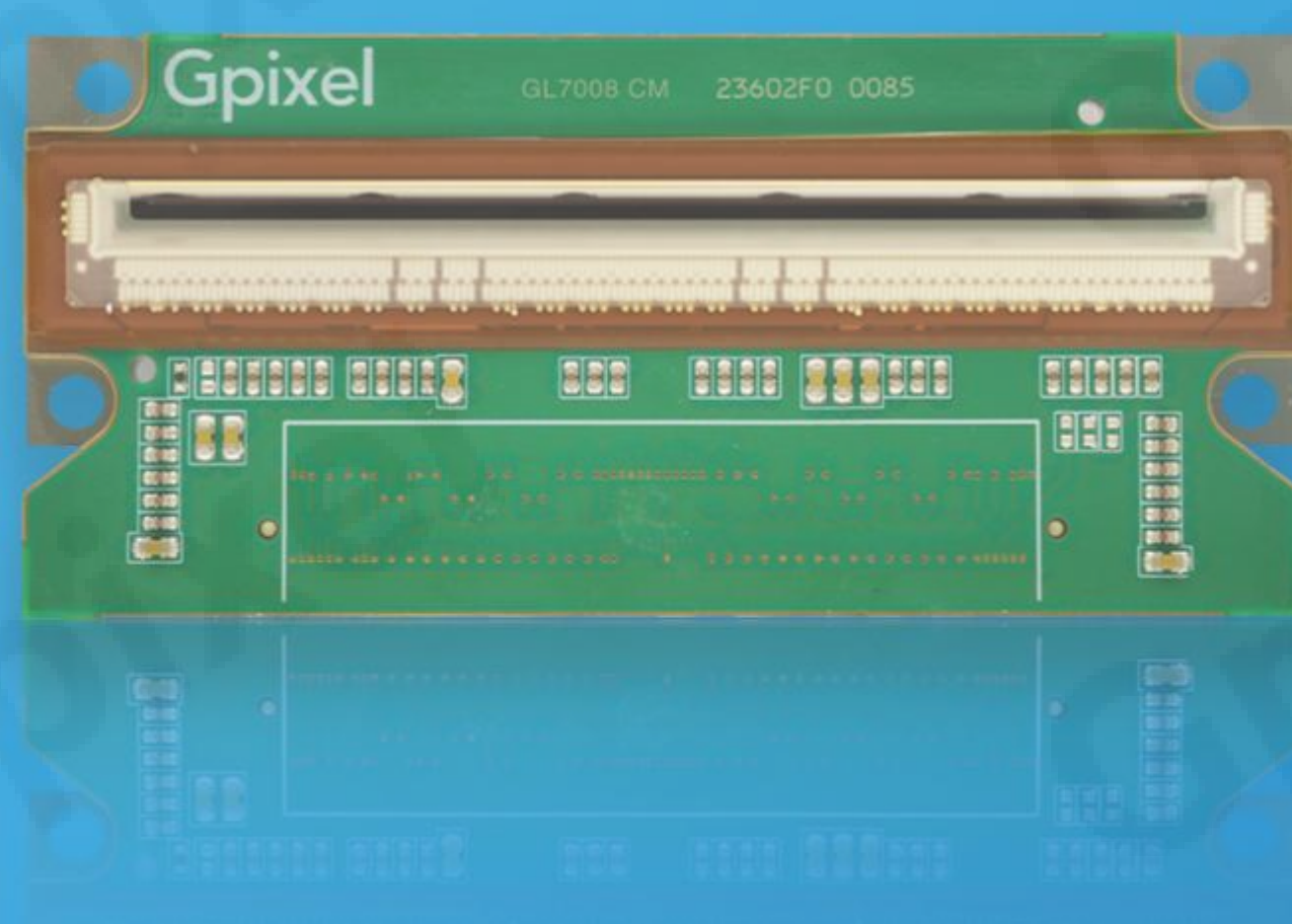




GL7008

8K 7 μm RESOLUTION GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR

GL7008 is a global shutter line scan image sensor with 7 μm square pixels and a horizontal resolution of 8192. The high sensitivity of the 7 μm pixels combined with the 200 kHz line rate makes the sensor an ideal solution for inspection and logistics applications.

GL7008 is offered in both color and monochrome versions. The monochrome sensor supports single and dual line modes. The color sensor supports 3-line true color and 4-line RGBW modes.

GL7008 is assembled in a COB package with WCu heat sink for optimal heat dissipation and with connector for easy integration.



Key Features and Benefits

- ▶ Individual Exposure Control for Each Color Line
- ▶ External Trigger
- ▶ Channel Multiplexing
- ▶ On Chip PLL
- ▶ On Chip Sequencer

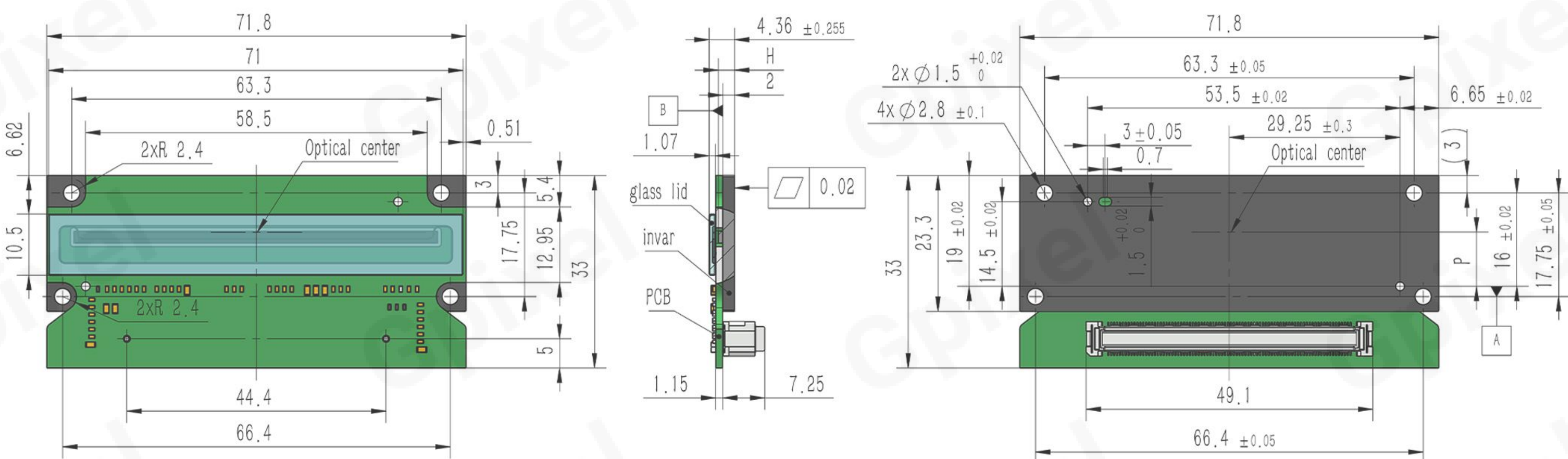
Applications

- ▶ Automation & Inspection
- ▶ Logistic & Positioning

Specifications

Nr of Active Pixels	8192 (H) x 4 (V)	Optical Format	57.344 mm
Pixel Size	7 μm x 7 μm	Shutter Type	Global Shutter
Peak QE	73.2% (530 nm)	Temporal Noise	6.8 e ⁻
Full Well Capacity	10 ke ⁻	Angular Response	20° (85% Response)
Dynamic Range	63.3 dB	Max Line Rate	200k fps (single line) 100k fps (dual line)
Output Format	25 ch Sub-LVDS	Channel Multiplexing	25/13/7/4
ADC	12 bit	Max. Data Rate	24 Gbps
Chroma	Mono, RGB Color	Power Consumption	4.4 W
Supply Voltage	3.3 V (analog) 1.8 V (digital) 1.8 V - 3.3 V (I/O)	Package	168 pins COB (71.8 mm x 32.0 mm)

Package Drawing



Contact Gpixel

GPiXEL CHINA CHANGCHUN (HQ)

Building 5, Optoelectronic Information
Industrial Park, 7691 Ziyou Road,
130033 Changchun, Jilin, China
Phone: +86-431-85077785
Disclaimer: The product information and pictures in this flyer are for reference only. For the latest information please visit www.gpixel.com.
GP-PR250801 V1.1

GPiXEL EUROPE

Gpixel NV
Copernicuslaan 60, 2018
Antwerpen, Belgium
Phone: +32-33034442

GPiXEL JAPAN

Gpixel Japan Co., Ltd.
TOC Osaki Building 18th Floor, 1-6-1 Osaki,
Shinagawa-ku, Tokyo, 141-0032 Japan
Phone: +81-03-5962-1600

