

GLUX1605BSI

0.5 MP 16 μm SVGA BSI CMOS IMAGE SENSOR

GLUX1605BSI is a 0.5 Megapixel resolution BSI CMOS image sensor with 16 μm x 16 μm pixel size. The sensor operates in electronic rolling shutter supporting two operation modes: Low Noise mode and HDR mode. User can choose which to operate in camera based on practical application' s requirement on full well capacity, noise, dynamic range, etc. It integrates two types of output channels (Sub-LVDS and MIPI) and on-chip sequencer, which enables the sensor development less effort and hardware resource. **GLUX1605BSI** is pin compatible with GLUX9701BSI (1inch SXGA of GLUX image sensor family), users can operate both sensors with one set of PCB design.



Key Features and Benefits

- ▶ Operation Mode – HDR Mode & Low Noise Mode
- ▶ Optical Format: 1 inch
- ▶ On-chip 12 bit Column-Parallel ADC
- ▶ On-chip Sequencer
- ▶ On-chip PLL

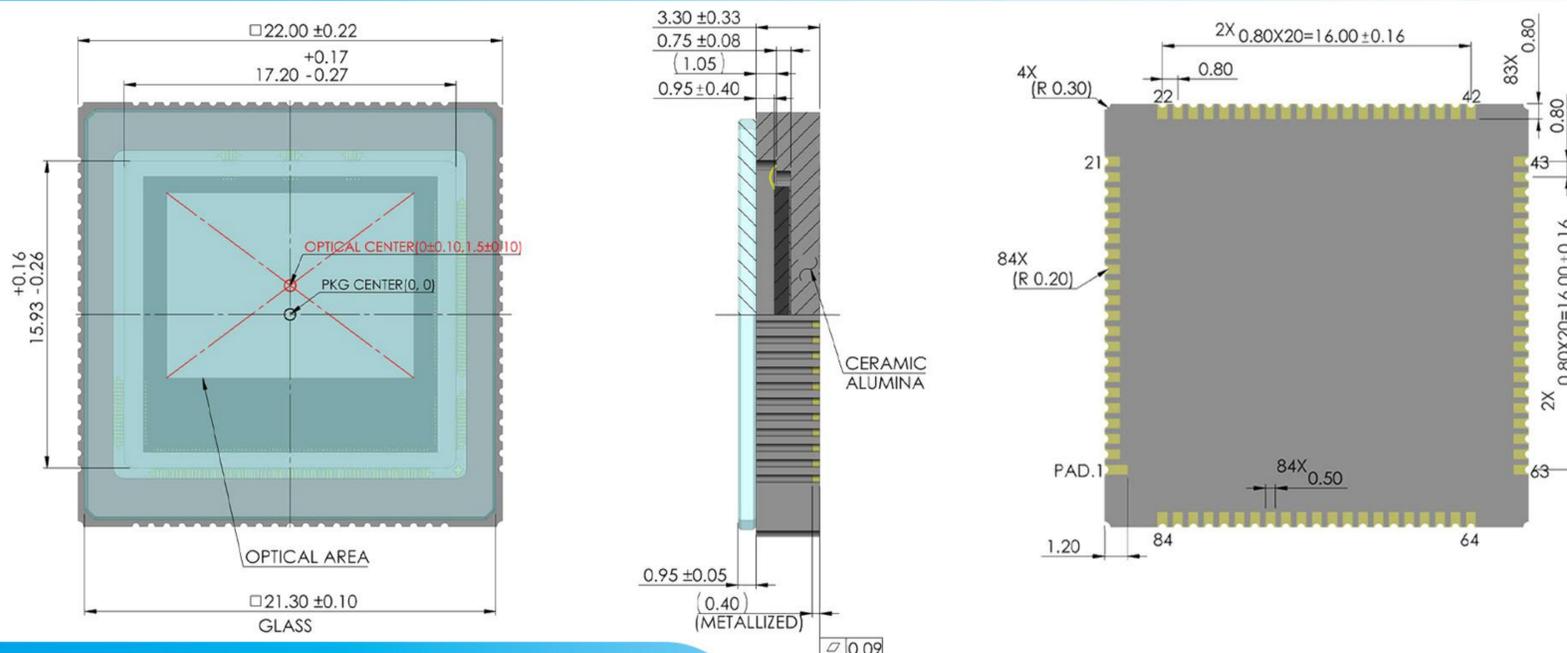
Applications

- ▶ Microluminescence Imaging

Specifications

Nr of Active Pixels	800 (H) x 600 (V)	Optical Format	1"
Pixel Size	16 μm x 16 μm	Photosensitive Area	12.8 mm x 9.6 mm
Shutter Type	Rolling Shutter	Peak QE	90.7% (550 nm)
Full Well Capacity	73.4 ke ⁻	Temporal Noise	0.9 e ⁻ (Low Noise)
Dark Current	0.22 e ⁻ /pixel/s (-33°C)	Dynamic Range	93 dB (HDR)
Max Frame Rate	60 fps	Output Format	4 ch Sub-LVDS 4 ch MIPI
Max. Data Rate	1.782 Gbps	ADC	12 bit
Chroma	Mono	Power Consumption	201 mW (HDR) 83 mW (Low Noise)
Supply Voltage	3.3 V (Analog) 1.75 V (Digital)	Package	84 pins CLCC (22.0 mm x 22.0 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

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



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