GLUX1605BSI Product Flyer
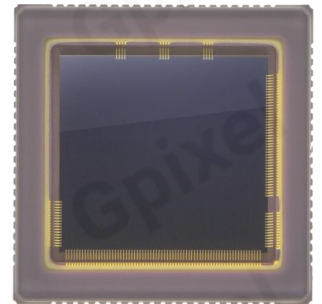
0.5MP SVGA BSI CMOS IMAGE SENSOR

GLUX1605BSI is a 0.5 Megapixel resolution BSI CMOS image sensor with 16µm x 16µm 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

- 16µm square pixels
- HDR mode & Low noise mode
- On-chip 12-bit column-parallel ADC
- On-chip sequencer
- On-chip PLL

Applications

- Scientific Imaging
- UV industrial inspection

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Sensor Specifications

Resolution	800 (H) x 600 (V)	Optical format	1.0"
Pixel size	16μm x 16μm	Photo-sensitive area	12.8mm x 9.6mm
Shutter type	Rolling shutter	Quantum efficiency	90% @ 560nm
Maximum FWC	73.4ke$^-$	Dark noise	0.9e$^-$ @Low noise mode 1.6e$^-$ @HDR mode
Dynamic range	93dB @HDR mode	Frame rate	60fps @HDR mode 25fps @Low noise mode
Output interface	4 pairs of Sub-LVDS data output 4 pairs of MIPI data output	Power consumption	201mW @HDR mode 83mW @Low noise
Data rate	445.5Mbps/lane @HDR 222.75Mbps/lane @Low noise	Dark current	0.22 e$^-$/s/p@-22℃
Chroma	Mono	Input clock rate	37.125MHz
I/O voltage	3.3V for Analog 1.75V for Digital	Package	84-pin CLCC

Ordering Information

Sensor Part No.

GLUX1605BSI-CBM-NCN-AR1
BSI image sensor, 84-pin CLCC package. Removable D263T glass lid without AR coating on both sides.

GLUX1605BSI-CBM-NCN-AU1
BSI image sensor, 84-pin CLCC package. UV epoxy sealed D263T glass lid without AR coating on both sides.

GLUX1605BSI-CBM-NCN-ARE
BSI image sensor, 84-pin CLCC package. Removable D263T glass lid without AR coating on both sides.

GLUX1605BSI-CBM-NCN-AUE
BSI image sensor, 84-pin CLCC package. UV epoxy sealed D263T glass lid without AR coating on both sides.

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