# GLUX9701BSI Product Flyer



## 1.3MP SXGA BSI CMOS IMAGE SENSOR

GLUX9701BSI is a 1.3 Megapixel resolution BSI CMOS image sensor with 9.76μm x 9.76μm pixel size.

The sensor operates in electronic rolling shutter supporting two operation modes: HDR mode and Low Noise mode. Users can choose which to operate in camera based on practical application's requirement on frame rate, noise, dynamic range, power consumption, etc.

With two types of data output channels: a 4 channel pairs sub-LVDS and MIPI (CSI-2, D-PHY) running at 445.5 MHz, achieving frame rate of 30 fps to flexibly match either ISP or FPGA components being used in camera electronics. Various operating functions are available including master mode, slave mode, standby mode, etc, making GLUX9701BSI useable for different imaging conditions.

## Key Features

- 9.76μm square pixels
- Two operation modes: HDR & Low noise
- Optional output channel: Sub-LVDS & MIPI(CSI-2, D-PHY)
- Switchable operation: slave and master
- Vertical/Horizontal image flipping

## Applications

- Surveillance
- Scientific Imaging
- UV industrial inspection

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# Sensor Specifications

| | | | |
|---|---|---|---|
| Resolution | 1280 x 1024 | Optical format | 1.0 '' |
| Pixel size | 9.76µm × 9.76µm | Photo-sensitive area | 12.493mm × 9.994mm |
| Shutter type | Rolling shutter | Quantum efficiency | 89% @ 610nm |
| Full well capacity | 48 ke$^-$ | Pixel clock rate | 37.125MHz |
| Dark noise | 1.6 e$^-$ @ HDR<br>0.85 e$^-$ @ Low Noise | Dark current | 0.08e$^-$/s/p @ -28 ℃ |
| Dynamic range | 89.5 dB @HDR mode | Frame rate | 30fps @ HDR<br>25fps @ Low noise |
| Output interface | 4 pairs @ sub-LVDS<br>4 pairs @ CSI-2 | Max. Data rate | 445.5Mbps @Sub-LVDS<br>445.5Mbps @MIPI |
| Chroma | Mono | Power consumption | 250 mW @ HDR<br>160 mW @ Low noise |
| Supply voltage | 3.3V for analog<br>1.8V for digital | Package | 184 pins CLCC<br>22mmx15.93mm |

# Ordering Information

### Sensor Part No.

| | |
|---|---|
| **GLUX9701BSI-BBM-NCN-AR1**<br>Mono, removable glass lid without AR coating, Grade 1 | **GLUX9701BSI-BBM-NCN-ARE**<br>Mono, removable glass lid without AR coating, Grade ES |
| **GLUX9701BSI-BBM-NCN-AU1**<br>Mono, UV epoxy sealed glass lid without AR coating, Grade 1 | **GLUX9701BSI-BBM-NCN-AUE**<br>Mono, UV epoxy sealed glass lid without AR coating, Grade ES |

### EVK Part No.

EVA-9701B-RC12, USB interface, single stacked PCB boards

# Contact

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