

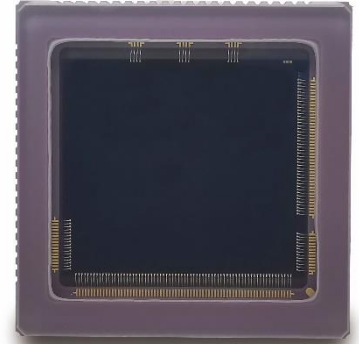
SXGA 1inch 1.3M BSI CMOS Image Sensor – GLUX9701BSI

Preliminary

SENSOR DESCRIPTION

GLUX9701BSI is a SXGA (1280 x 1024) BSI, 1" optical format, ultra-low noise image sensor, designed with 9.76 μm rolling shutter pixel. By dual-gain HDR mode, it achieves a 50 ke⁻ FWC with 1.5 e⁻ read noise and 90 dB dynamic range. GLUX9701BSI supports ultralow noise mode by which provides 0.8 e⁻ read noise.

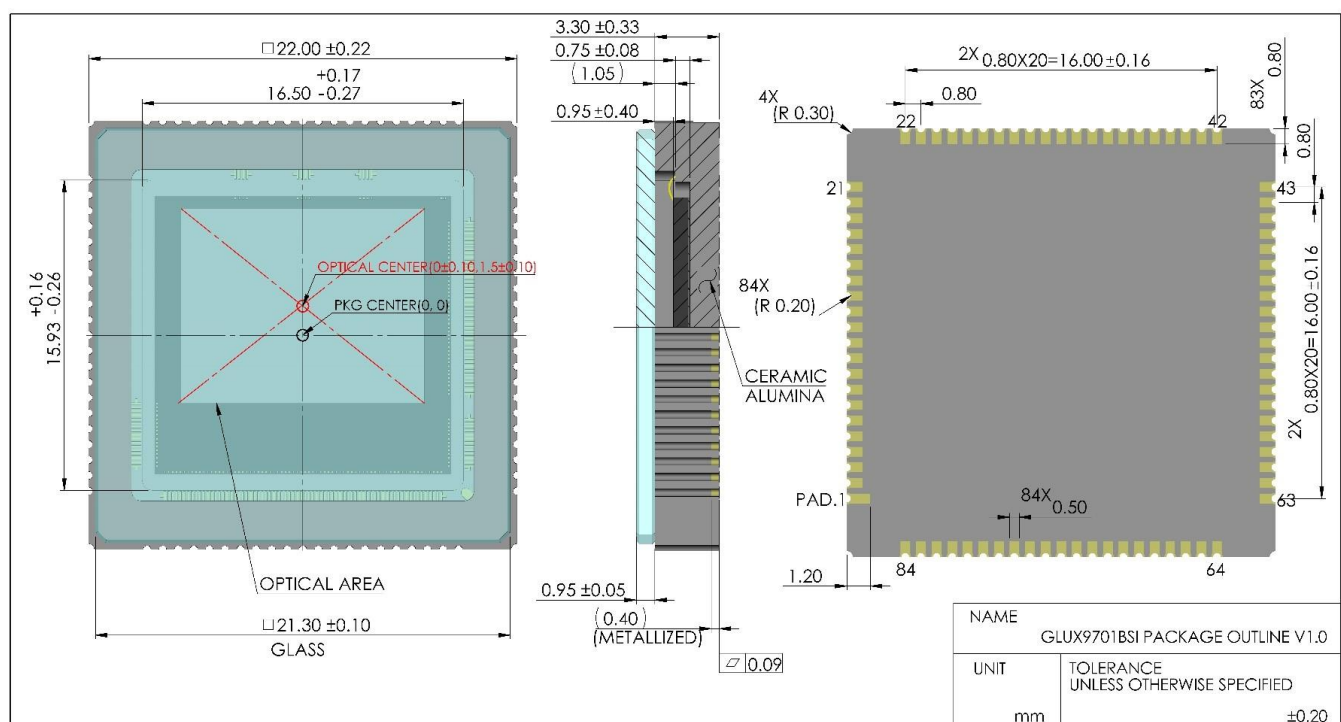
Sensor supports both MIPI CSI-2(D-PHY) and sub-LVDS interfaces, allowing maximum frame rate of 30 fps. The unique features make it an ideal solution for demanding applications such as surveillance under star light conditions and life science imaging.



SENSOR SPECIFICATION

Resolution	1280 × 1024	Shutter type	Rolling shutter
Pixel size	9.76 μm × 9.76 μm	Photosensitive area	12.5 mm × 9.9 mm
Peak QE	90% @ 550 nm	Chroma	Mono
FWC	50 ke ⁻ @ HDR LG	Readout noise	1.5 e ⁻ @ HDR mode 0.8 e ⁻ @ Low Noise mode
Dynamic range	90.4 dB @ HDR	Data rate	445.5 Mbps / channel
ADC	12bit	Output format	4 pairs of sub-LVDS 4 pairs of MIPI (CSI-2, D-PHY)
Power consumption	350 mW @ HDR 180 mW @ Low noise	Package	84-pin CLCC

PACKAGE OUTLINE



Subject to change without notice. Please address all product inquiries to GPIXEL.

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