

GL3504

2K/4K C-MOUNT GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR

GL3504 is a line scan image sensor suitable for small format camera integration with C mount lens, the sensor contains two line with 3.5 μm pixel and four lines with 7 μm pixel. Line rates run up to 84.4 kHz with 3.5 μm pixel line (12 bit output), and up to 172.7 kHz with 7 μm pixel line (12 bit output).

GL3504 uses on-chip PLL and all required timing is generated by the on-chip sequencer, reducing the amount of external components needed. Output channel multiplexing enables flexibility in FPGA selection. **GL3504** enables a cost-effective camera solution for demanding inspection applications.



Key Features and Benefits

- ▶ High Speed
- ▶ High Dynamic Range
- ▶ Low Consumption

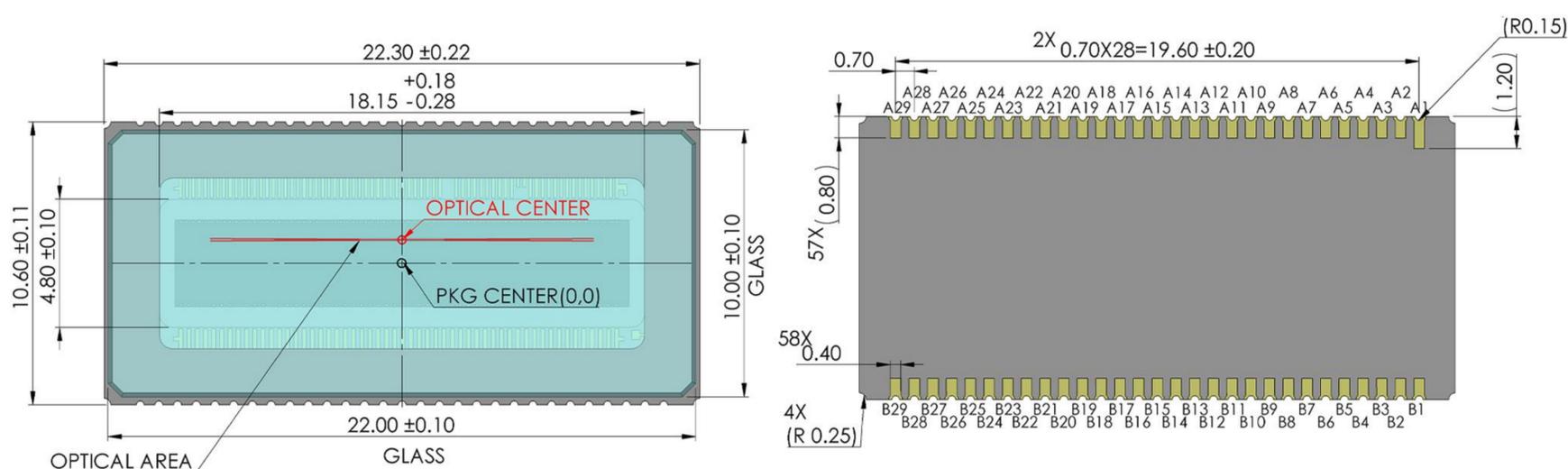
Applications

- ▶ Automation & Inspection

Specifications

Nr of Active Pixels	4096 (H) x 2 (V) (3.5 μm) 2048 (H) x 4 (V) (7 μm)	Optical Format	14.336 mm
Pixel Size	3.5 μm x 3.5 μm 7 μm x 7 μm	Shutter Type	Global Shutter
Peak QE	71.9% (570 nm)	Temporal Noise	4.9 e ⁻ (3.5 μm ,12 bit)
Full Well Capacity	9.4 ke ⁻ (3.5 μm ,12 bit)	Angular Response	20°(87% Response)
Dynamic Range	65.8 dB (3.5 μm ,12 bit)	Max Line Rate	172.7 kHz (7 μm ,12 bit, single line)
Output Format	6 ch Sub-LVDS	Channel Multiplexing	6/3/2/1
ADC	8/12 bit	Max. Data Rate	5.472 Gbps
Chroma	Mono, RGB Color	Power Consumption	< 1.0 W
Supply Voltage	3.3 V (analog) 2.5 V - 3.3 V (IO) 2.1 V (digital)	Package	CLCC 58 pins (22.3 mm x 10.6 mm)

Package Drawing



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GP-PR250801 V1.1

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