

# GL3516

3.5  $\mu\text{m}$  16K RESOLUTION GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR

**GL3516** is a 16384 x 2 resolution, 3.5  $\mu\text{m}$  square pixel, line scan CMOS image sensor that supports a 120 kHz line rate in single line mode and 60 kHz line rate in dual line mode. **GL3516** is pin and footprint compatible with Gpixel's existing GL7008 8K line scan sensor. Its features make it an ideal solution for industrial inspection applications benefitting from high-speed scanning and 16K resolution, including production inspections for lithium battery testing, flat panel displays, PCBs, labels, and railways.

**GL3516** is offered in both color and monochrome versions. The monochrome sensor supports single and dual line modes. The color sensor supports dual line mode.

**GL3516** is assembled in a COB package with WCu heat sink for optimal heat dissipation and with a connector for easy integration.



## Key Features and Benefits

- ▶ High Speed
- ▶ High Resolution
- ▶ Low Power Consumption
- ▶ Easy Integration

## Applications

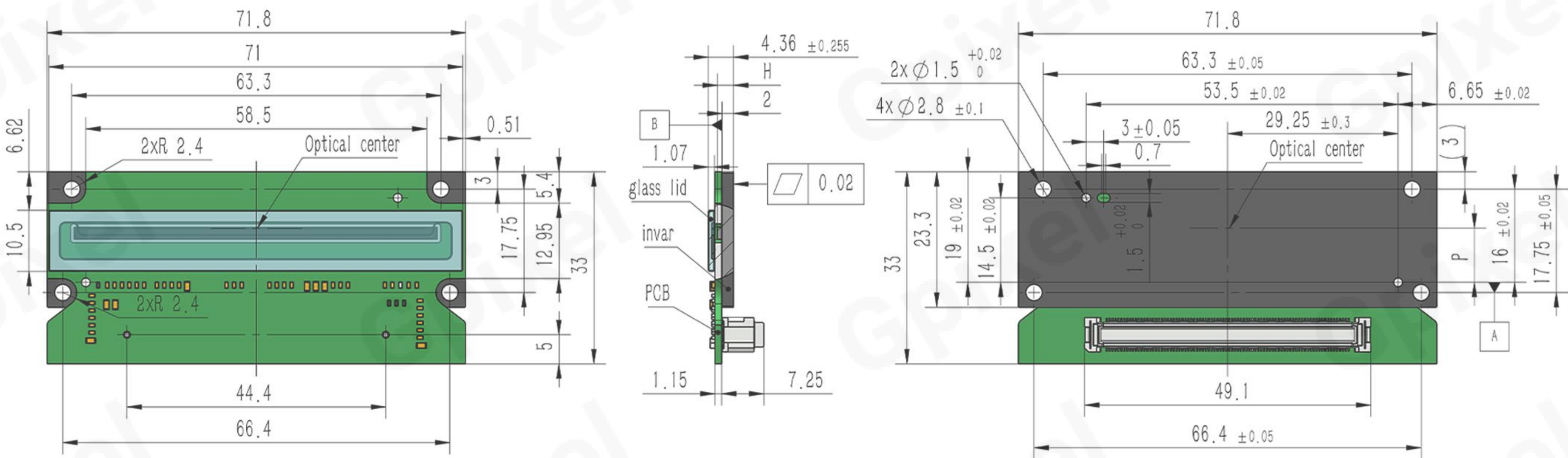
- ▶ Automation & Inspection



# Specifications

Nr of Active Pixels	16384 (H) x 2 (V)	Optical Format	57.344 mm
Pixel Size	3.5 μm x 3.5 μm	Shutter Type	Global Shutter
Peak QE	56.7% ( 560 nm)	Temporal Noise	8.2 e <sup>-</sup>
Full Well Capacity	8.4 ke <sup>-</sup>	Angular Response	20° (85% Response)
Dynamic Range	60.2 dB	Max Line Rate	120 kHz (single line)
Output Format	25 ch Sub-LVDS	Channel Multiplexing	25/13/7/4
ADC	10 bit	Max. Data Rate	24 Gbps
Chroma	Mono, RGB Color	Power Consumption	3.2 W
Supply Voltage	3.3 V (analog) 1.8 V - 3.3 V (IO) 1.8 V (digital)	Package	168 pins COB (71.8 mm x 32.0 mm)

# Package Drawing



# Contact Gpixel

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