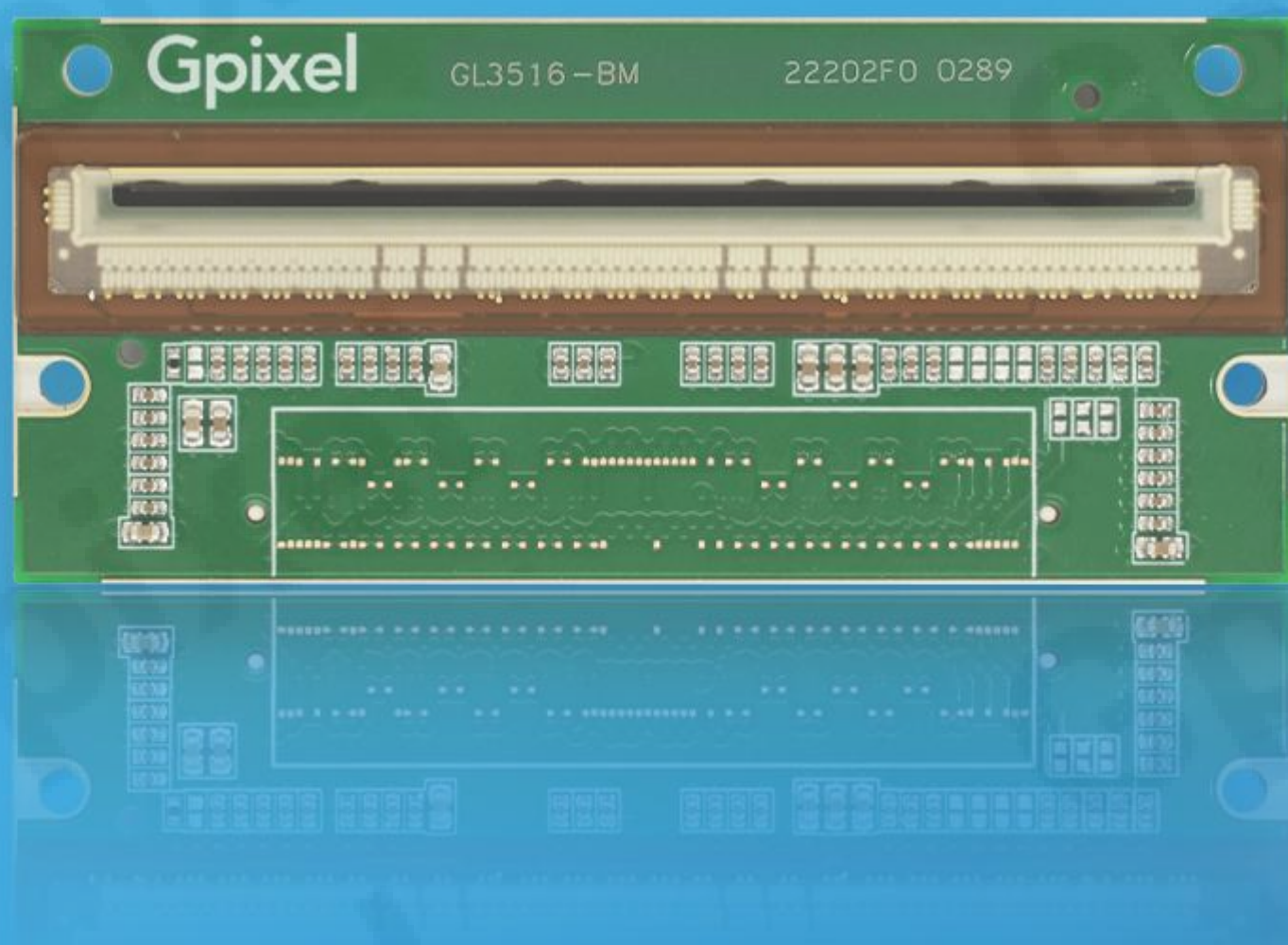




GL3516

3.5 μm 16K RESOLUTION GLOBAL SHUTTER LINE SCAN CMOS IMAGE SENSOR

GL3516 is a 16384 x 2 resolution, 3.5 μm 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 Invar heat sink for optimal heat dissipation and with a connector for easy integration.



Key Features and Benefits

- ▶ Electronic Global Shutter
- ▶ Resolution: 16384 (H) x 2 (V)
- ▶ Individual Exposure Control for Each Color Pixel
- ▶ External Trigger
- ▶ GL3516 Mono Single/Dual Line Mode
- ▶ GL3516 Color Dual Line Mode

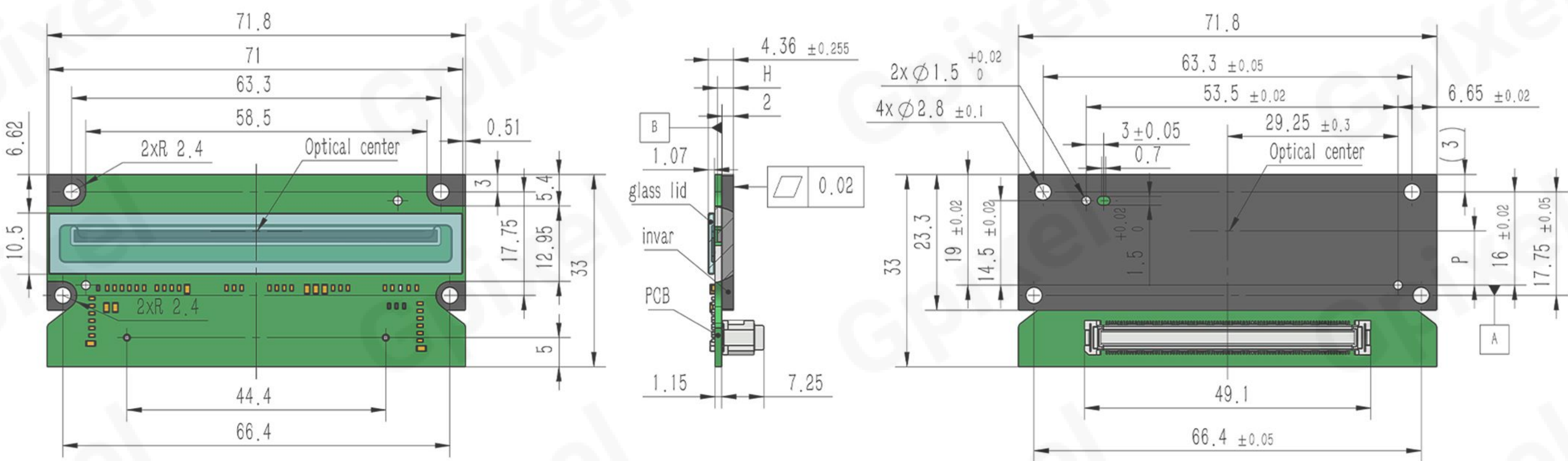
Applications

- ▶ 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	10.6 e ⁻
Full Well Capacity	8.4 ke ⁻	Angular Response	20° (85% Response)
Dynamic Range	58.0 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 33.0 mm)

Package Drawing



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