

GMAX3265

65 MP GLOBAL SHUTTER IMAGE SENSOR

Featured with the latest generation 3.2 μm charge-domain global shutter pixel and 65 MP (9344 x 7000) resolution, GMAX3265 is the leading-edge image sensor with 37.4 mm diagonal for high resolution machine vision and industrial inspection applications. This new generation pixel operates with true correlated double sampling (CDS), allowing low read noise and high dynamic range. In addition, the dual light pipe technology provides excellent PLS and angular response.

GMAX3265 is offered in high speed version and normal speed version. High speed version delivers 71 fps at 10 bit output, normal speed version delivers 31 fps at 12 bit output. The sensor integrates an on-chip sequencer, programmable through SPI, shortening time-to-market for camera manufactures. GMAX3265 is assembled with 239-pins micro-PGA ceramic package for reliability and good heat dissipation and a double-sided ARC D263 glass lid.



Key Features and Benefits

- ▶ 3.2 μm Global Shutter Pixel
- ▶ Image Diagonal: 37.4 mm
- ▶ On-chip Sequencer and SPI Control
- ▶ Excellent Resolution and Significant Frame Rate
- ▶ High Speed and Good PLS

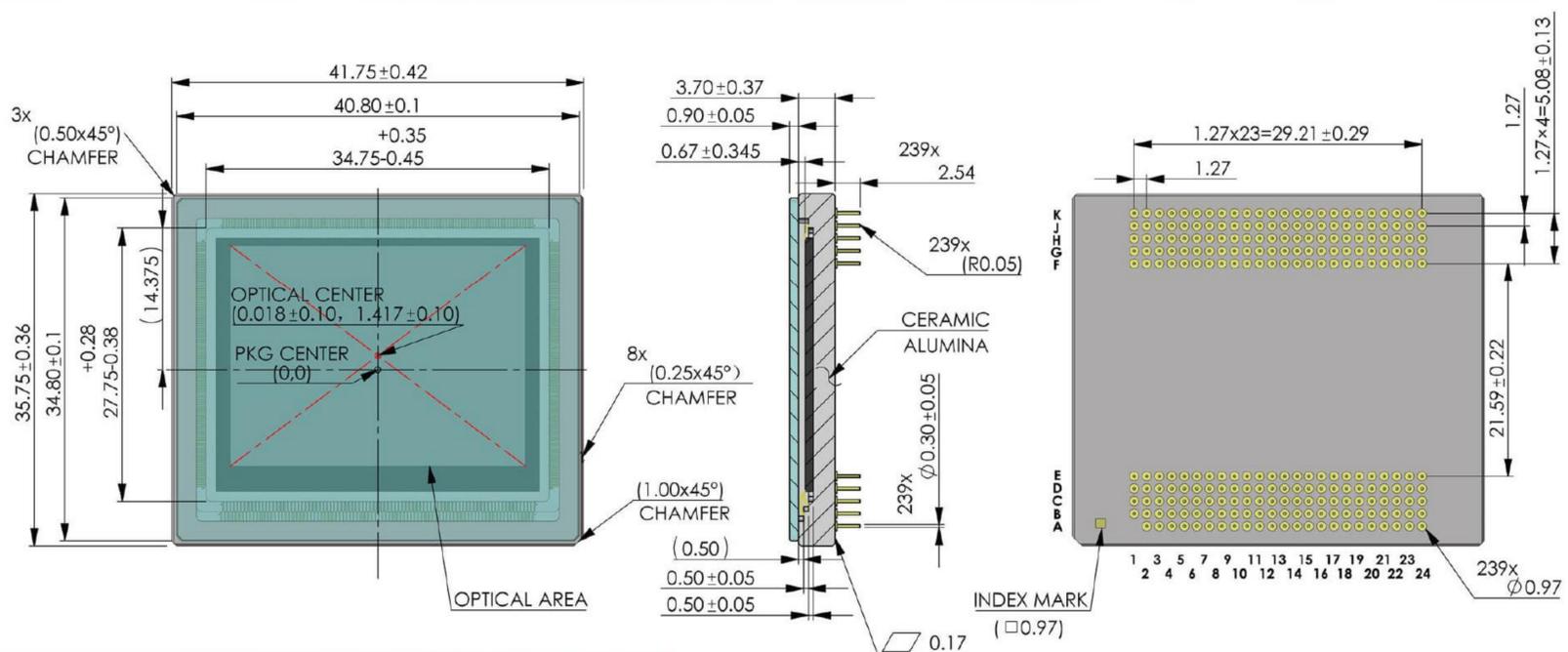
Application

- ▶ Automation & Inspection

Specifications

Nr of Active Pixels	9344(H) x 7000(V)	Optical Format	2.3"
Pixel Size	3.2 μm x 3.2 μm	Photosensitive Area	29.9 mm x 22.4 mm
Shutter Type	Global Shutter	Parasitic Light Sensitivity	<-83.5 dB
Peak QE	65.3% (500 nm)	Angular Response	> 15° (80% Response)
Full Well Capacity	10.6 ke ⁻ (PGA gain 0.75x)	Temporal Noise	1.9 e ⁻ (12 bit,PGA gain 6x) 7.5 e ⁻ (10 bit,PGA gain 1.25x)
Max. SNR	40.2 dB (PGA gain 1.0x)	Dynamic Range	66.0 dB (12 bit,PGA gain 1.25x) 62.3 dB (10 bit,PGA gain 1.25x)
Dark Current	5.3 e ⁻ /pixel/s (40°C)	ADC	10/12 bit
Max Frame Rate	71 fps (10 bit) 31 fps (12 bit)	Output Format	56 ch Sub-LVDS
Power Consumption	<2.1 W (12 bit) <2.3 W (10 bit)	Max. Data Rate	50.40 Gbps
Supply Voltage	3.3 V/1.3 V (analog) 1.8 V-3.3 V (IO) 1.3 V (digital)	Channel Multiplexing	56/28/14/8/7/4/2/1
Chroma	Mono & RGB Color	Package	239 pins μ PGA (41.8 mm x 35.8 mm)

Package Drawing



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GP-PR250801 V1.1