



# GMAX3809

## 9 MP GLOBAL SHUTTER IMAGE SENSOR

**GMAX3809** fits 4096(H) x 2160(V) (9 MP) resolution into a 1.1" image format with low noise, charge domain Global Shutter pixels running at 65 fps (12 bit) ADC resolution per pixel. GMAX3809's 3.8  $\mu\text{m}$  pixel achieves a full well capacity of 11.5  $\text{ke}^-$  and noise of 3.6  $\text{e}^-$ , delivering over 70 dB linear dynamic range. Similar to other GMAX products, the advanced pixel technology brings a Parasitic Light Sensitivity of -92 dB and excellent angular response  $> 15^\circ$  (80% response). Gpixel's Red Fox technology is employed to deliver a NIR-enhanced QE of 30% (850 nm) for excellent performance in intelligent traffic systems.

**GMAX3809** is configurable through SPI or I<sup>2</sup>C and supports on-chip color offset calibration, LED flicker mitigation, multiple region HDR and OTP functions. GMAX3809 is housed in a 163-pins ceramic LGA package with outer dimensions of 27.1 mm x 17.9 mm and an LGA pad pattern optimized for reliable solder connections. The sensor assembly includes a double side AR coated cover glass lid.



### Key Features and Benefits

- ▶ Low Noise Global Shutter
- ▶ Excellent PLS and Angular Response
- ▶ On-chip Color Offset Calibration

### Application

- ▶ Automation & Inspection
- ▶ Intelligent Transport Systems

