GEO Introduces the World’s First Automotive Smart Viewing Camera Processor

GW5 Delivers Computer Vision to a Broader Class of Vehicles

LAS VEGAS, Nev., Jan. 8, 2018 - GEO Semiconductor Inc. (“GEO”), the market leader in camera video processors (CVP) for automotive viewing cameras today announced the GW5200 and GW5400 CVP’s for next generation automotive cameras. The GW5200 advances the state-of-the-art in automotive camera video quality and the GW5400 adds in-camera computer vision to enable ADAS functionality. These new CVP’s are designed for low power consumption and at a price point allowing the migration of advanced camera features to a broader-class of vehicles.

The GW5200 supports up to 8 megapixel resolution and is capable of processing two image sensors simultaneously. Superior video quality results from the seamless integration of GEO’s proprietary 5th-generation eWARP® geometric processor, multi-stream high dynamic range (HDR) combiner, and next generation image signal processor (ISP). On-chip combining of up to four exposures extends dynamic range to 145 dB while the ISP’s advanced noise filtering enhances low-light image quality. LED flicker mitigation (LFM) is enabled by pairing with the latest automotive image sensors.

The GW5400 builds on the GW5200’s advances by incorporating a computer vision processor which will run a wide range of vision algorithms. The processor and algorithms enable ADAS functions such as pedestrian detection, object detection, blindspot detection, cross traffic alert, driver attention monitoring, lane departure warning, as well as target-less auto calibration (AutoCAL®). This vision processor will allow OEM’s to design safety features into viewing cameras to alert drivers of dangerous conditions and ultimately save lives.

“The GW5 product is a major advance as automotive camera technologies evolve to combine viewing and computer vision applications in a single camera. At GEO we are focused on bringing safety benefits to the edge by adding computer vision and ADAS to lower cost automotive camera solutions,” said Dave Orton, GEO CEO, “with design wins at many of the major automotive OEM’s, we are looking to build on our market success by enabling smart backup camera, eMirror, Driver Monitoring Systems, and other innovative automotive camera solutions.”

The GW5200 and GW5400 also incorporate a versatile vector graphics engine that renders high resolution real-time graphics overlays to enable compelling user interfaces. Ready for automotive designs, the GW5 product family includes a built in CAN interface, and has been developed under ISO 26262 ASIL B and is AEC-Q100 Grade2 qualified. The GW5200 and GW5400 are both available in 7mm x 7mm and 10mm x 10mm BGA packages.

The GW5200 and GW5400 will be demonstrated in GEO’s private suite at the Consumer Electronic Show (CES) in Las Vegas, January 9-12, 2018.

About GEO Semiconductor
GEO Semiconductor (GEO) is an industry leader in delivering programmable camera video processors to the rapidly growing automotive and consumer camera markets. GEO products feature unique eWARP® geometric processing technology, image signal processing, and video compression solutions backed by over 100 patents. GEO’s core markets include automotive cameras and head-up displays, consumer cloud / IoT cameras, surveillance cameras, video communication, and the video projection markets. GEO is headquartered in San Jose, California with offices in Bangalore (India), and Toronto (Canada), and sales channels around the world. www.geosemi.com

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