



NEWS RELEASE

# indie Semiconductor Introduces Class-leading Computer Vision Processor Family

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- Enables simultaneous human viewing and ADAS sensing capability in a single SoC platform
- Delivers superior low-light and high dynamic range sensing for improved perception performance
- Real-time ISP supports four simultaneous sensor inputs and emerging sensor types, including infrared

ALISO VIEJO, Calif.--(BUSINESS WIRE)-- indie Semiconductor, Inc. (Nasdaq: INDI), an Autotech solutions innovator, today announced the addition of a highly innovative iND880xx product line to its fast-growing vision processor portfolio, developed to address the demanding specifications of Advanced Driver Assistance Systems (ADAS) and driver viewing use cases, such as Surround View systems and Electronic Mirrors. This latest family of processors further enhances indie's comprehensive suite of sensing solutions for computer vision, LiDAR, radar, and ultrasound, and underpins indie's leadership as the only automotive company to offer a dynamic portfolio spanning all edge-sensing modalities.

Vision-based sensing has rapidly become a critical sensor modality for ADAS, driven by government regulation, new car acceptance programs (NCAP), and improved consumer awareness of vehicle safety. Key safety applications enabled by vision sensing include automated emergency braking (AEB), lane keep assist (LKA), blind spot detection (BSD), driver and occupant monitoring (DMS/OMS), smart back-up, and vulnerable road user (VRU) protection. In fact, the need for improved VRU protection - which aims to safeguard pedestrians in particular - was recently bolstered by the U.S. Department of Transportation's National Highway Traffic Safety Administration (NHTSA) AEB regulation FMV127. This progressive regulation includes testing requirements for pedestrian AEB (PAEB), including low-light and nighttime testing, placing stringent requirements on vision processor performance.



The **iND880xx** video processor system-on-chip (SoC) family sets new benchmarks in image signal processing (ISP) performance and functionality for both viewing and sensing applications. Balancing the competing needs of low light sensor performance (luminance) and the ability to differentiate colors (chrominance) for high-performance perception (for example, to accurately differentiate red and amber traffic lights) has been an ongoing challenge for legacy vision processors. High latency initialization and pipeline processing has also limited legacy ADAS camera system real-time safety capabilities. The iND880xx family addresses these unique challenges through the product's proprietary ISP pipeline ability to support concurrent, low-latency processing of four independent sensor inputs, delivering a combined maximum throughput of 1400 megapixels per second.

Additionally, proprietary ISP features include a 24-bit processing pipeline that enables high dynamic range (HDR) processing up to 144dB, with dedicated support for the broadest range of sensor color filter arrays (CFAs), including RGGB, RCCB, RYYCy, and RGB-IR, facilitating the highest performance environmental perception even in low light conditions. Further, the ISP supports eWarp®, indie's proprietary high-performance geometric processing, to dewarp image distortion from a wide field of view lens. These class-leading ISP capabilities allow automakers the scalability to deploy multiple instances of the iND880xx into various high-performance viewing and ADAS sensing use cases across their entire vehicle portfolio.

"The iND880xx product family represents a revolutionary step in performance and integration for automotive vision processing," said Abhay Rai, indie's chief product officer. "The imperatives for vision-based ADAS sensing applications are growing, while in parallel consumer expectations for camera-based innovation are accelerating. Automakers need to deploy multiple cameras to drive various applications in demanding environmental conditions, including low light, as exemplified by the recent NHTSA PAEB regulation. Our groundbreaking iND880xx processor family delivers on all these challenges."

The **iND880xx** family is sampling with select lead customers and will be in serial production deployment in 2025.

The iND880xx solution will be showcased at the upcoming AutoSens Europe 2024 in Barcelona, Spain, October 8-10.

## About indie

indie is empowering the Autotech revolution with next generation automotive semiconductors and software platforms. We focus on developing innovative, high-performance and energy-efficient technology for ADAS, user experience and electrification applications. Our mixed-signal SoCs enable edge sensors spanning Radar, LiDAR, Ultrasound, and Computer Vision, while our embedded system control, power management and interfacing solutions transform the in-cabin experience and accelerate increasingly automated and electrified vehicles. We are

an approved vendor to Tier 1 partners and our solutions can be found in marquee automotive OEMs worldwide. Headquartered in Aliso Viejo, CA, indie has design centers and regional support offices across the United States, Canada, Argentina, Scotland, Germany, Hungary, Morocco, Israel, Japan, South Korea, Switzerland and China.

Please visit us at [www.indiesemi.com](http://www.indiesemi.com) to learn more.

## Safe Harbor Statement

This communication contains “forward-looking statements” (including within the meaning of Section 21E of the United States Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended) concerning indie Semiconductor such as the features, functionality, performance, availability, timing and expected benefits of indie Semiconductor products and technology, including the timing of future deployments. Such statements include, but are not limited to, statements regarding our future business and financial performance and prospects, and other statements identified by words such as “will likely result,” “expect,” “anticipate,” “estimate,” “believe,” “intend,” “plan,” “project,” “outlook,” “should,” “could,” “may” or words of similar meaning. Such forward-looking statements are based upon the current beliefs and expectations of our management and are inherently subject to significant business, economic and competitive uncertainties and contingencies, many of which are difficult to predict and generally beyond our control. Actual results and the timing of events may differ materially from the results included in such forward-looking statements. All forward-looking statements in this press release are expressly qualified in their entirety by the foregoing cautionary statements.

Investors are cautioned not to place undue reliance on the forward-looking statements in this press release, which information set forth herein speaks only as of the date hereof. We do not undertake, and we expressly disclaim, any intention or obligation to update any forward-looking statements made in this announcement or in our other public filings, whether as a result of new information, future events or otherwise, except as required by law.

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