



NEWS RELEASE

indie Launches Breakthrough 120 GHz Radar Transceiver

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- Expands indie's automotive portfolio of radar sensing solutions to in-cabin monitoring
- Precise measurement capabilities for improved sensing resolution
- Eliminates the need for external antennas, reducing solution size and system cost
- Sampling now with high-volume ramp slated for Q2'24

ALISO VIEJO, Calif.--(BUSINESS WIRE)-- indie Semiconductor, Inc. (Nasdaq: INDI), an Autotech solutions innovator, has launched the world's first volume production-ready, highly integrated 120 GHz IQ radar front-end (RFE) transceiver featuring on-chip integrated antennas. The TRX_120_067 provides the high-resolution, small-form-factor, low-power consumption sensing demanded by emerging automotive radar systems and significantly simplifies application development by eliminating the need for external antennas.

indie Launches Breakthrough 120 GHz Radar Transceiver (Photo: Business Wire)

Radar is already a widely deployed long-range sensing

solution for safety and convenience features such as automated emergency braking (AEB), automated parking and adaptive cruise control (ACC), leveraging frequencies between 76 GHz to 81 GHz. As vehicle OEMs look to continually improve sensing resolution, radar is now becoming increasingly important for in-cabin Driver and Occupant Monitoring Systems (DMS/OMS), leveraging higher frequencies from 120 GHz to 140 GHz enabling vital sign detection, including heartbeat and respiration, to ensure occupant safety. These higher, license-free frequencies also support the use of antenna-on-chip techniques that significantly simplify PCB design, minimize sensor form factor and reduce cost - criteria particularly important for DMS/OMS applications where external



antennas impose industrial design limitations unacceptable to automotive manufacturers.

As international vehicle safety assessment programs such as European New Car Assessment Program (Euro NCAP) mandate or recommend driver and occupant monitoring, in-cabin sensing solutions will rapidly proliferate and ultimately play a critical role in enhancing overall safety. As a result, S&P Global Mobility forecasts driver and occupant monitoring will represent a semiconductor market opportunity of \$507 million in 2029, up from \$64 million in 2022, representing a 34% CAGR over this period. Radar sensing at 120 GHz and above will increasingly contribute to the deployed in-cabin solutions to address high resolution sensing applications.

“Building on the momentum of our recent acquisition of Silicon Radar GmbH, we are excited to offer our customers the world’s first, production-ready 120 GHz radar transceiver on-chip with integrated antenna, opening new possibilities for automotive radar and sensing applications,” said Dr. Peter Gulden, SVP of indie Semiconductor’s Radar Systems and Software. “This transceiver pushes the sensing performance envelope and uniquely positions indie as a leader in advanced automotive radar solutions.”

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, England, Germany, Hungary, Morocco, Israel, Japan, South Korea and China.

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 its radar products. 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. In addition to the factors previously disclosed in our Annual Report on Form 10-K for the fiscal year ended December 31, 2022 filed with the SEC on March 28, 2023 and in our other public reports filed with the SEC (including those identified under “Risk Factors” therein), the following factors, among others, could cause actual results and the timing of events to differ materially from the anticipated results or other expectations expressed in the forward-looking statements: the impact of the COVID-19 pandemic; the impact of Russia’s invasion of Ukraine; our reliance on contract manufacturing and outsourced supply chain and the availability of semiconductors and manufacturing capacity; competitive products and pricing pressures; our ability to win competitive bid selection processes and achieve additional design wins; the impact of any acquisitions we have made or may make, including our ability to successfully integrate acquired businesses and risks that the anticipated benefits of any acquisitions may not be fully realized or take longer to realize than expected; our ability to develop, market and gain acceptance for new and enhanced products and expand into new technologies and markets; trade restrictions and trade tensions; our ability to build, staff and integrate new design, testing, sales and marketing facilities throughout the world; and political and economic instability in our target markets. 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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Source: indie Semiconductor