

indie Semiconductor Wins 2022 AutoTech Breakthrough Award For “LiDAR Solution of the Year”

Annual Award Recognizes Innovation in Transportation Technologies

ALISO VIEJO, Calif. ([PRWEB](#)) October 13, 2022 -- [indie Semiconductor, Inc. \(Nasdaq: INDI\)](#), an Autotech solutions innovator, today announced that its advanced LiDAR system-on-chip (SoC) technology has been selected as “LiDAR Solution of the Year” in the third annual AutoTech Breakthrough Awards program conducted by [AutoTech Breakthrough](#).

AutoTech Breakthrough is a leading market intelligence organization that recognizes the top companies, technologies, and products in the global automotive and transportation technology markets. indie won the “LiDAR Solution of the Year” for Surya™, a compact and highly integrated SoC that significantly reduces power, component count, board space and cost when implementing automotive LiDAR systems for the reliable detection of long-range targets.

LiDAR is a critical sensing technology for achieving maximum levels of safety for assisted and self-driving cars. By gathering data about the environment to process and ensure reliable safety, LiDAR-based long-range sensors are an indispensable technology for enabling the evolution from driver assistance to fully autonomous vehicles.

indie’s SoC incorporates a software-configurable receiver, transmitter, and baseband signal processor. The receiver portion provides flexible high-bandwidth analog-to-digital conversion as well as a hardware-accelerated FFT processing unit. Meanwhile, the transmitter enables waveform synthesis and digital-to-analog conversion, synchronized to both the receiver and optomechanical LiDAR sub-systems. The baseband signal processor is a powerful quad-core Tensilica® software-defined signal processing unit for point cloud generation.

Additionally, the SoC integrates a 32-bit Arm® Cortex® M4F supervisory processor and several I/Os which monitor, control and synchronize LiDAR sub-systems that require analog or digital interfaces such as optical front-ends, global timing references, beam steering devices and inertial measurement units. Thanks to the ability to load all firmware securely from off-chip Flash memory, the SoC retains the field upgradeability of legacy FPGA solutions to support evolving processing and perception algorithms.

“According to a recent report, the global automotive LiDAR market is expected to grow at a compound annual growth rate of 28 percent by 2027. Until now, typical LiDAR systems have deployed a very large number of discrete ICs, required complex PCB design and have not been scalable given ultra-high price points for disparate implementations,” said Bryan Vaughn, Managing Director of AutoTech Breakthrough Awards. “Surya represents a major step forward in advancing architectures by reducing design complexity, improving scalability and delivering significant improvements in power, performance and cost when compared to these current architectures, including FPGA-based designs. We are very pleased to award indie Semiconductor with the ‘LiDAR Solution of the Year’ award.”

“indie is honored to receive AutoTech Breakthrough’s award for LiDAR innovation,” said Paul Hollingworth, executive vice president of sales at indie. “This recognition for our Surya platform reflects our commitment to democratize LiDAR via a highly integrated, low-cost approach towards the ultimate goal of enabling the

uncrashable car.”

The mission of the annual AutoTech Breakthrough Awards program is to conduct the industry’s most comprehensive analysis and evaluation of automotive and transportation technology categories, including Connected Car, Electric Vehicles, Engine Tech, Automotive CyberSecurity, Sensor Technology, Traffic Tech and many more. This year's program attracted more than 1,500 nominations from over 15 different countries.

About indie

indie is empowering the Autotech revolution with next-generation automotive semiconductors and software platforms. We focus on edge sensors spanning multiple modalities, including LiDAR, radar, ultrasound and computer vision for Advanced Driver Assistance Systems (ADAS), user experience and electrification applications. These technologies represent the core underpinnings of both electric and autonomous vehicles while our advanced user interfaces enabled by our mixed-signal SoCs transform the in-cabin experience to mirror and seamlessly connect to the mobile platforms we rely on every day. We are an approved vendor to Tier 1 partners and our solutions can be found in marquee automotive OEMs around the world. Headquartered in Aliso Viejo, CA, indie has design centers and sales offices in Austin, TX; Boston, MA; Detroit, MI; San Francisco and San Jose, CA; Córdoba, Argentina; Budapest, Hungary; Dresden and Munich, Germany; Cambridge, England; Edinburgh, Scotland; Haifa, Israel; Quebec City, Canada; Tokyo, Japan and several locations throughout China.

Please visit us at www.indiesemi.com to learn more.

About AutoTech Breakthrough

Part of [Tech Breakthrough](#), a leading market intelligence and recognition platform for global technology innovation and leadership, the AutoTech Breakthrough Awards program is devoted to honoring excellence in automotive and transportation technologies, services, companies and products around the world. The AutoTech Breakthrough Awards program provides a forum for public recognition around the achievements of AutoTech companies and solutions in categories including Connected Car, Electric Vehicles, Engine Tech, Automotive CyberSecurity, Sensor Technology, Traffic Tech, Vehicle Telematics and more. For more information visit AutoTechBreakthrough.com

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