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SenseICs Awarded \$200K TVSF Grant to Commercialize a Next-Generation LiDAR Chip

COLUMBUS, OH – SenseICs Corporation, a semiconductor design company delivering advanced integrated circuit IP and turnkey microelectronics solutions for OEMs and VARs, today announced it has been awarded a \$200,000 grant from the Ohio Third Frontier Technology Validation and Start-up Fund (TVSF), administered by the Ohio Department of Development.

The award will support commercialization of a next-generation light detection and ranging (LiDAR) integrated circuit, with an initial focus on high-precision ranging and altimetry. Target applications include terrain elevation modeling, inland water monitoring, floodplain mapping, and coastal elevation profiling.

The Ohio Third Frontier Technology Validation and Start-up Fund is designed to drive economic growth by accelerating the commercialization of technologies developed at Ohio universities and nonprofit research institutions. The program supports both validation of protected technologies originating from Ohio research institutions and Ohio-based startups that license and transition those technologies toward market readiness.

“Through licensing with The Ohio State University, SenseICs has secured access to a timing-jitter-optimized Constant Fraction Discriminator (CFD), a specialized signal-processing block that enables highly precise timing measurements,” said Dr. Ramy Tantawy, CEO and Co-Founder of SenseICs. *“This project will integrate OSU’s CFD intellectual property into our existing Detection and Ranging System-on-a-Chip (DARSoC) architecture. Originally developed for efficient cloud profiling and long-range sensing, DARSoC will be enhanced for high-accuracy ranging and altimetry in a new product called AltiZoom. While AltiZoom is optimized for precision altimetry, its performance characteristics also support automotive LiDAR as a secondary market.”*

President and Co-Founder Dr. Shane Smith highlighted the broader impact of the award: *“This funding will support design updates, chip fabrication, and testing to deliver a fully functional, commercial-ready prototype and conduct beta testing with a commercial partner. In parallel, we will engage LiDAR system integrators to support downstream adoption. AltiZoom will be a key addition to our product portfolio and will contribute to Ohio’s high-tech economy by accelerating the commercialization of advanced semiconductor-based sensing technologies.”*

Backed by a multidisciplinary team with deep expertise in custom integrated circuits and electronic system design, SenseICs combines patented innovations with strategic partnerships across government, academia, and industry. The company continues to advance high-performance sensing solutions for space and terrestrial applications through scalable, application-driven semiconductor technologies.



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About SenseICs:

SenseICs is a small business committed to designing and developing advanced microelectronics. To meet the needs of our customers in the defense, energy, automotive, and medical industries, we combine decades of engineering expertise with a forward-thinking mindset to provide proven solutions for advanced imaging, communications, trusted microelectronics, and high radiation environments. SenseICs was founded in 2017 and is currently based in Columbus, Ohio. For more information, please visit <https://senseics.com/>

About The Program:

The Ohio Third Frontier is a \$2.1 billion economic development initiative that supports technology entrepreneurship and growing high-tech jobs across the state of Ohio. Through a statewide network of resources, entrepreneurs have access to the technology, business assistance, capital, and talent to turn great ideas into thriving companies. Ohio Third Frontier is driving this expanding, vibrant community of high-growth technology companies and making Ohio a leading destination for entrepreneurs.

What Ohio Third Frontier Supports: Ohio Third Frontier seeks compelling business models for near-term market opportunities based on technology and tech-enabled products and services focused in the following areas:

- Advanced Manufacturing
- Advanced Materials
- Biomedical/Life Sciences
- Energy
- Sensors
- Software/Information
- Technology

For more information about Ohio Third Frontier, visit <https://development.ohio.gov/business/third-frontier-and-technology>.