



## **KVH Launches New Inertial Sensor with Photonic Integrated Chip Technology**

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### **New patented technology is designed to enhance inertial sensor performance and reliability for the growing autonomous market**

MIDDLETOWN, R.I., June 30, 2020 (GLOBE NEWSWIRE) -- KVH Industries, Inc., (Nasdaq: KVHI), announced today that the P-1775 inertial measurement unit (IMU) featuring KVH's new PIC Inside™ photonic integrated chip (PIC) technology is now available and the first units have started shipping. KVH has been developing and testing the technology for more than three years and is now incorporating it into existing product lines. One of the first customers has integrated the P-1775 IMU with PIC Inside into their next-generation rocket launch vehicle.

KVH's PIC Inside technology features an integrated planar optical chip that replaces individual fiber optic components to simplify production while maintaining or improving accuracy and performance. The PIC Inside product is designed to deliver 20 times higher accuracy than less expensive MEMS inertial measurement units, uses modular designs for ease of integration, and has outstanding repeatability unit-to-unit.

"I applaud the tremendous effort by our incredible engineers in developing this groundbreaking technology and I am thrilled that we have begun to incorporate PIC Inside technology into our existing products, a process that we expect to continue throughout the year," says Martin Kits van Heyningen, KVH CEO.

The PIC technology will be added to KVH's inertial sensor product line for use across a broad range of applications from navigation to stabilization and pointing. KVH's fiber optic gyros (FOGs) and FOG-based products are particularly well-suited for the large and growing autonomous market. This market includes applications on land, sea, and air, such as drones, people movers, trucks, and mining and construction equipment.

Autonomous applications rely on high quality inertial sensors to deliver an extremely accurate navigation solution, delivering the performance required in critical metrics such as angle random walk (ARW) and bias instability. Next-generation driverless cars, which require centimeter-level precision for safety, are the ideal application for KVH's inertial products. Employing the PIC design allows for a lower cost and scalable solution due to the elimination of various fiber components and a reduction of labor.

Last year, KVH announced that it had delivered its first product prototypes containing PIC technology to leading automotive customers and presented the science behind the technology to an audience of engineers at a leading inertial sensor conference, describing the extensive development, testing, and benefits of the new technology.

KVH is a leading innovator for assured navigation and autonomous accuracy using high-performance sensors and integrated inertial systems. KVH's widely fielded TACNAV® systems are currently in use by the U.S. Army and Marine Corps as well as many allied militaries around the world. KVH's FOGs and FOG-based IMUs are in use today in a wide variety of applications ranging from optical, antenna, and sensor stabilization systems to mobile mapping solutions and autonomous platforms and cars.

*Note to Editors:* For more information about KVH's FOGs and FOG-based products, please visit the [PIC Inside website](#). High-resolution images of KVH products are available at the [KVH Press Room Image Library](#), [kvh.com/Press-Room/Image-Library](http://kvh.com/Press-Room/Image-Library).

#### **About KVH Industries, Inc.**

KVH Industries, Inc., is a global leader in mobile connectivity and inertial navigation systems, innovating to enable a mobile world. A market leader in maritime VSAT, KVH designs, manufactures, and provides connectivity and content services globally. KVH is also a premier manufacturer of high-performance sensors and integrated inertial systems for defense and commercial applications. Founded in 1982, the company is based in Middletown, RI, with research, development, and manufacturing operations in Middletown, RI, and Tinley Park, IL, and more than a dozen offices around the globe.

This press release contains forward-looking statements that involve risks and uncertainties. For example, forward-looking statements include statements regarding the performance, functionality, characteristics, quality and manufacturing costs of KVH products and technology, our product development goals, market trends, and competitive positioning. The actual results could differ materially from the statements made in this press release. Factors that might cause these differences include, but are not limited to: inability to complete the commercialization stage of development and incorporation of the new photonic-chip-based technology into existing product lines; potential failure to achieve expected manufacturing goals, including production volumes and reductions in labor costs; unexpected increases in costs of materials; reductions in the prices customers are willing to pay; manufacturing challenges that increase costs; potential unanticipated technical impediments and poor or delayed research and development results; unforeseen changes in competing technologies and products, including undisclosed breakthroughs by competitors; lack of reliable vendors; potential changes in market trends, and other developments affecting the buying patterns of end-users of inertial products, including management's assessment of the probability and effect of future events. These and other factors are discussed in more detail in KVH's Form 10-K and Form 10-Q filed with the SEC on February 28, 2020, and May 1, 2020, respectively. Copies are available through its Investor Relations department and website, <http://investors.kvh.com>. KVH does not assume any obligation to update its forward-looking statements to reflect new information and developments.

KVH Industries, Inc. has used, registered, or applied to register its trademarks in the U.S.A. and other countries around the world, including but not limited to the following marks: KVH, PIC Inside, and TACNAV. All other trademarks are the property of their respective companies.

#### **For further information, please contact:**

Jill Connors

Sr. Manager, Media & Industry Analyst Relations

KVH Industries, Inc.  
Tel: +1 401 851 3824  
[jconnors@kvh.com](mailto:jconnors@kvh.com)



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