

KVH Introduces New Continuous Navigation System



KVH Industries (RI, USA), in cooperation with NovAtel today introduced the CNS-5000, a self-contained navigation system that combines fiber optic gyro (FOG)-based inertial measurement technology from KVH with global positioning system (GPS) technology from NovAtel. This rugged navigation solution affordably provides the precise position and orientation of a host platform on a continuous basis, even during periods where GPS signals are blocked by natural or man-made obstructions or conditions. The CNS-5000 is designed specifically for demanding commercial applications, such as dynamic surveying, precision agriculture, container terminal management, and autonomous vehicle navigation, where the ability to determine the precise position and orientation of a piece of equipment or a mobile platform is critical.

Through its seamless integration of KVH's FOG-based IMU with NovAtel's OEMV GPS precision receiver technology, the CNS-5000 provides a low-cost, small form factor solution for 3-D positioning, velocity, and attitude measurement. The deep coupling of the GPS and IMU technologies within the CNS-5000 optimizes the raw GPS and IMU data, delivering a superior position, velocity and attitude solution. Composed entirely of commercial components and rugged enough to operate in extremely demanding conditions, the CNS-5000 is also designed to meet COTS requirements. This minimizes the operational complexities for customers whose products cross international boundaries.

Caption: The CNS-5000 is designed for commercial applications, such as dynamic surveying, precision agriculture, container terminal management, and autonomous vehicle navigation.

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