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New Product Announcement

Bosch's BMI088 High-Performance IMU for Drones and Robotics Now at Mouser

November 28, 2018 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [BMI088](#) high-performance inertial measurement unit (IMU) from [Bosch Sensortec](#). Borrowing from Bosch's proven automotive technology, the Bosch BMI088 delivers an extremely stable, low-noise 6-axis inertial [sensor](#) designed for [industrial](#) and [harsh-environment](#) drone and [robotics](#) applications.

The [Bosch BMI088](#) IMU, available from Mouser Electronics, incorporates a 16-bit digital, triaxial accelerometer and a 16-bit digital, triaxial gyroscope to accurately measure orientation and detect motion along three orthogonal axes. The device offers acceleration ranges of ± 3 g to ± 24 g and gyroscopic slew rates up to $\pm 2,000$ degrees per second ($^{\circ}/s$). The high performance and high speed of the BMI088 enable it to suppress vibrations, which can help ensure smoother navigation and avoid crashes in applications such as drones. The BMI088 provides vibration-quelling speed and 16-bit accuracy to enable ultra-low drift maximum bias drift of $2^{\circ}/hour$.

With its vibration robustness and temperature stability even under sudden temperature fluctuations, the BMI088 dramatically enhances steering and navigation accuracy even in the most naturally high-vibration environments. The device is compatible with other Bosch sensors such as the [BMI085](#) IMU to simplify integration into existing designs and comes factory calibrated and ready to use in a compact $3.0 \times 4.5 \times 0.95$ mm package.

For development, the [BMI088 shuttle board](#) enables designers to gain easy access to the sensor's pins via a simple socket. And because all Bosch Sensortec sensor shuttle boards have identical footprints, they can interface with the company's other advanced development tools for optimal flexibility.

To learn more about Bosch BMI088 high-performance IMU and BMI088 shuttle board, visit www.mouser.com/bosch-sensortec-bmi088.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About The Bosch Group

Bosch Sensortec, a subsidiary of Robert Bosch GmbH, has been providing micro mechanical sensors and application services for the consumer electronics market since 2005. Bosch Sensortec has access to the development and manufacturing competencies of the Bosch Automotive Electronics division which makes for flexible and close cooperation during all project phases. This allows not only focus on new applications, but the ability to quickly respond to special customer requests. Due to its integration in the Bosch Group, Bosch Sensortec is capable of a rapid adaptation of existing sensors in new areas of application.

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