



## **Kionix's Breakthrough 6-Axis Accel-Gyro Combo Sensors Provide Industry-Leading Low Power Consumption**

Ithaca, NY and Kyoto, Japan – November 19, 2015 – [Kionix, Inc.](#), a leader in the design and manufacture of MEMS solutions, has announced the mass production of its [KXG03](#) 6-axis Accelerometer-Gyroscope combo and the unveiling of two new flagship 6-axis Accelerometer-Gyroscope combos: the KXG07 and the KXG08. “Our new products represent a significant technological leap forward in reducing the power consumption of 6-axis solutions,” says Nader Sadrzadeh, President and CEO of Kionix. “High power consumption has traditionally hindered the adoption rate of gyros across a variety of platforms. Kionix has now eliminated this barrier, benefiting applications in Mobile, Gaming, IoT, and Wearables where power is most critical.”

The KXG07 and KXG08 incorporate a newly developed, proprietary technology which dramatically lowers the power consumption of the gyroscope. The KXG08 is packaged in a conventional 2.5mm x 3mm x 0.9mm 14-pin LGA, while the KXG07 is offered in a 3mm x 3mm x 0.9mm 16-pin LGA package with footprint compatible with many of Kionix's discrete accelerometers. These new solutions enable full high-speed operation of the onboard accelerometer, gyroscope, and temperature sensor at industry-leading low-power consumption levels as low as 0.2mA. This reduces sensor power consumption over comparable devices and brings the combined operation of the gyroscope and accelerometer to levels traditionally associated with standalone accelerometers. These products include synchronization functionality, a 4,096-byte buffer and support for controlling and acquiring data from external sensors. The KXG07 and KXG08 will start sampling in December 2015.

The KXG03 is designed to lower overall system power by offering unique dual-state capabilities. These dual-state capabilities provide for greater autonomous operation and allow the host microprocessor, which consumes considerably more power, to sleep for longer periods of time. It includes buffering capabilities, an onboard temperature sensor, the ability to control two external sensors via a secondary I2C bus, and advanced capabilities for synchronizing external sensor data and events. It also includes an unprecedented degree of control of the device's two states, allowing the KXG03 to turn on and off internal and external sensors, start and stop buffering, and manage sampling rates. The KXG03 comes in a 3mm x 3mm x 0.9mm 16-pin LGA package and is shipping in mass volumes starting December 2015.

For more information, please contact:

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#### About Kionix

[Kionix, Inc.](#), a global MEMS inertial sensor manufacturer based in Ithaca, NY, USA, offers high-performance, low-power accelerometers, gyroscopes, and 6-axis combination sensors plus comprehensive software libraries that support a full range of sensor combinations, operating systems and hardware platforms. Leading consumer, automotive, health and fitness and industrial companies worldwide use Kionix sensors and total system solutions to enable motion-based functionality in their products. Kionix is ISO 9001:2008, TS 16949, and TS 14001:2004 certified. Kionix is a wholly owned subsidiary of [ROHM Co., Ltd.](#)