



## **Kionix Introduces New Accelerometers Optimized for Mobile Handsets and Tablets**

New series of products features enhanced, embedded motion-processing engine and very low-power operation

**ROSEMONT, IL**—June 7, 2011— [Kionix](#), Inc., today announced at [Sensors Expo and Conference](#) the first two accelerometers in a new series of low-power, high-performance inertial sensors optimized for mobile handsets and tablets. The [KXTI9](#) offers a dramatic reduction in active power, and combines a FIFO buffer with an improved embedded algorithm engine, allowing customers to develop new applications with minimal impact on system resources. The KXTJ9, which reduces system cost by eliminating the engine and buffer, offers the lowest active and standby power of any high-performance accelerometer.

### **Optimized for Mobile Operating Systems**

Mobile operating systems such as Google's Android™ 3.1 and Ice Cream Sandwich, and Microsoft Windows Mobile are defining support for inertial sensors as a must-have capability. Kionix's two new accelerometers have been designed to address two different implementations: OEM-customized implementations that include features like pedometer, tap-to-answer, and shake-to-wake versus a straightforward implementation that supports the base-level platform requirements.

"The KXTI9 and KXTJ9 meet two distinctly different needs of our customers," stated Michael Maia, vice president of sales and marketing Americas at

Kionix. “The KXTI9 is highly efficient and feature-rich, combining embedded intelligence with low power for handset and tablet manufacturers who want a market-differentiating solution. On the other hand, the KXTJ9 is optimized for even lower power consumption while offering our most aggressively priced device.”

The KXTI9 is a low-power, high-performance, Fast-mode I<sup>2</sup>C tri-axis accelerometer. It is pin- and register-compatible with the popular Kionix KXTF9, and offers a 43% reduction in power consumption in 12-bit mode (325µA) and 56% lower power in 8-bit operation (100µA) versus the KXTF9. It includes a 252-byte FIFO/FILO buffer, which simplifies timing requirements and enables burst reads, and has an integrated voltage regulator with a supply voltage range of 1.8V to 3.6V. In addition, the KXTI9 offers a wide range of user-programmable settings, including 8-bit or 12-bit resolution; ±2g, 4g or 8g ranges; and Output Data Rates (ODR) from 12.5 Hz to 800 Hz with programmable high-pass and low-pass filters. The KXTI9 integrates Kionix’s second-generation algorithm engine that improves Directional Tap/Double-Tap™, shake-to-wake, and screen rotation.

The KXTJ9 is pin-compatible with the KXTI9 and offers a lower-cost alternative for a digital-direct output, ultra-low power, tri-axis accelerometer. It features 56% lower power in 12-bit mode (250µA) and a dramatic 95% lower power consumption in 8-bit mode (10µA) as compared to the KXTF9. The KXTJ9 also delivers best-in-class Noise Density of 175 µg/rtHz, improving the performance of other inertial sensors in a system.

### **Availability**

The KXTI9 is shipping to qualified customers, and the KXTJ9 will begin sampling to qualified customers in Q3, 2011. Both parts are available in a 3x3x0.9mm LGA package. For more information, please email:

[salesna@kionix.com](mailto:salesna@kionix.com) or contact the [Kionix sales office](#) nearest you.

## **About Kionix**

Kionix, Inc., located in Ithaca, New York, USA, is a wholly owned subsidiary of [ROHM Co., Ltd.](http://www.rohm.com) of Japan. The Company pioneered high-aspect-ratio silicon micromachining based on research originally conducted at Cornell University and today enjoys a global reputation for MEMS product design, process engineering and quality manufacturing. Consumer-electronics leaders worldwide utilize Kionix's products, development tools and application support to enable motion-based gaming; user-interface functionality in mobile handsets, personal navigation and TV remote controllers; and hard-disk-drive drop protection in mobile products. Kionix's MEMS products are further diversified into the automotive, industrial and health-care sectors. Kionix offers one of the industry's broadest families of MEMS devices that incorporate tri-axis accelerometers and gyroscopes along with the mixed-signal-interface integrated circuits that provide algorithm processing of sensor data. Kionix is ISO9001:2000 and TS16949 registered. For more information on Kionix, visit: <http://www.kionix.com>. For additional information on ROHM, visit <http://www.rohm.com>.

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