Kionix Introduces 2 x 2 x 0.9mm Accelerometer – A Company First

The KXTJ2 boosts Kionix's competitiveness as an innovative sensor supplier in the mobile handsets and tablets markets

Las Vegas, Nevada— January 10, 2012-Kionix, Inc. today announced the release of its smallest MEMS accelerometer to date—the 2 x 2 x 0.9mm tri-axis KXTJ2. Combining low power, high performance and a small form factor, the KXTJ2 is optimized for mobile handsets and tablets in which every square millimeter of board space is critical.

The KXTJ2 features the newly designed XAC sensor, which offers outstanding stability with a market-leading combination of improved shock, reflow, and thermal performance. The XAC sensor decreases the need for production-line calibration, which also provides customers with substantial cost reductions. Combined with significant drops in active power and noise, the KXTJ2 promises to be a leading competitor in the handsets and tablets markets.

"Kionix is aggressively addressing changing customer requirements for a reduced sensor footprint," said Scott Miller, vice president of engineering at Kionix. "At the same time, we will not compromise performance for size. We continue to dedicate engineering resources to the development of technology, such as the new XAC sensor, which packs enhanced capability in a smaller package at a lower cost, thereby allowing us to fulfill two of the most important requirements of handset and tablet manufacturers."

Other KXTJ2 features include:

- Low current consumption in all modes: 2 μA in standby, 10 μA at low resolution, and 135 μA for high resolution;
- A user-configurable, low-power, embedded wake-up function, allowing the user to conserve battery life by powering down other systems until needed;
- User-selectable resolution and acceleration ranges at +/-2g, +/-4g or +/-8g, as well as user-selectable Output Data Rate (ODR);
- Low noise for better resolution;
- Communication on the I^2C digital serial interface bus for easy system integration by eliminating analog-to-digital converter requirements and by providing direct communication with system microcontrollers;
- An internal voltage regulator that maintains constant internal operating voltages over its 1.8 – 3.6V range of input supply. This results in stable operating characteristics and virtually undetectable ratiometric error; and
- Up to 14-bit resolution for greater precision.

Availability

Available in a 12-pin, LGA, plastic package, the KXTJ2 is now sampling to qualified customers. For more information, please email: 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. 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 healthcare sectors. Kionix offers one of the industry's broadest families of MEMS devices that incorporates 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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