



Kionix Introduces Low Power, Full-Featured 2x2x0.9mm Accelerometer with FIFO/FILO Buffer

The KX022 offers low current consumption and a full range of high-performance embedded algorithms optimized for mobile applications

Ithaca, New York—[Kionix](#), Inc. today announced the release of the KX022, a 2x2x0.9mm tri-axis, robust accelerometer with integrated FIFO/FILO buffer that maintains low power while offering a wide variety of embedded algorithms for maximum functionality. Embedded features include tap detection, orientation detection, activity monitoring, and motion wake-up algorithms, as well as an internal voltage regulator and self-test function. With an ultra-small package, high-performance embedded functionality, and current consumption as low as 2µA, the KX022 is ideally suited for smartphones, tablets, and health and fitness applications.

The KX022 also features a user-configurable, low-power, embedded motion wake-up function, allowing the user to conserve battery life by powering down other systems until needed. Combined with Kionix's XAC sensor, which provides outstanding stability with a market-leading combination of improved shock, reflow, and thermal performance, as well as a decreased need for production-line calibration, the KX022 provides customers with substantial reductions in power, noise, and cost.

"Kionix continues to aggressively address customer requirements for a small sensor footprint and for greater product functionality," said Scott Miller, Vice President of Engineering, Kionix. "As a result, we have successfully

enhanced our previous 2x2 offering by adding in a full range of embedded algorithms and functionality and an integrated FIFO/FILO buffer, dropping current consumption, and reducing noise, thereby making this part perfect for mobile applications.”

KX022 features include:

- Low current consumption in all modes: 2 μ A in standby, 10 μ A at normal resolution (25Hz ODR), and 130 μ A for high resolution;
- User-selectable resolution and acceleration ranges at +/-2g, +/-4g or +/-8g, as well as user-selectable Output Data Rate (ODR);
- Embedded FIFO/FILO buffer;
- Two interrupt registers;
- Digital high-pass filter outputs;
- Low noise for better resolution;
- I²C and SPI digital output;
- An internal voltage regulator that maintains constant internal operating voltages over its 1.8 – 3.6V range of input supply;
- Up to 14-bit resolution for greater precision;
- Self-test function; and
- Embedded functionality, including tap detection, orientation, activity, and motion wake-up algorithms.

Availability

Available in a 12-pin, LGA, plastic package, the KX022 will be sampling to qualified customers during Q1 2013. For more information, please email: salesna@kionix.com or contact the [Kionix sales office](#) nearest you.

About Kionix

[Kionix, Inc.](#), a wholly owned subsidiary of [ROHM Co., Ltd.](#), is a top-tier manufacturer of MEMS inertial sensors based in Ithaca, NY, USA. Leading companies in [consumer](#), [automotive](#), [health and fitness](#) and [industrial](#) markets use Kionix sensors and total system solutions to enable motion-based functionality in their products.

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