



New Low Power Digital Accelerometer Offers Industry Leading Stability & Performance

Willow Technologies Limited (www.willow.co.uk) announces the Kionix **KXCJ9 Low Power Digital Accelerometer**, featuring a new **MEMS sense element** and up to **14-bit resolution**.

Low-power, low-cost, low-noise, the KXCJ9 micro-electromechanical systems (MEMS) accelerometer, with a novel tri-axis sense element, is pin-to-pin compatible with Kionix's popular KXTI9 and KXTF9 devices.

The new sense element represents an evolution of Kionix's leading MEMS technology. Designed and produced in Kionix's newly expanded fab, it provides excellent performance over temperature, in shock tests and in reflow. These attributes combine to produce a new level of device stability for today's high-volume consumer electronics markets.



KXCJ9-1008 KXCJ9-1018

Said Martin Pearce, Marketing Director, at Willow Technologies Limited, "The KXCJ9 offers customers **unmatched quality and functionality at an affordable price**. Our customers are facing intense pressures to pack more functionality into more power efficient, less expensive products. The KXCJ9 has been designed to hit these performance-power-price benchmarks - without sacrificing features."

The KXCJ9 is a feature-rich product, with an internal voltage regulator that maintains constant internal operating voltages over its 1.8 - 3.6V range of input supply, resulting in stable operating characteristics and virtually undetectable ratio metric error. It has a user-configurable wake-up function, which lets customers conserve battery power and low current consumption in all modes: 2 μ A in standby, 10 μ A at low resolution and 135 μ A at high resolution.

It also features user-selectable g ranges of ± 2 , ± 4 or ± 8 g, as well as user-selectable Output Data Rate (ODR). Communication on the I²C digital serial interface bus, for easy system integration, both eliminates analogue-to-digital converter requirements and provides direct communication with system microcontrollers. It has accelerometer outputs with up to 14-bit resolution for greater precision.

Availability

The KXCJ9 is now sampling to qualified customers. It is available in a 3 x 3 x 0.9mm, 10-pin, LGA plastic package.

"Combining high performance, reduced active and passive power consumption and unmatched stability, the **KXCJ9** promises to be the "go-to" part for consumer electronics manufacturers in high-volume markets", concludes Pearce.

Editor Information

Founded in 1989, Willow Technologies is located in Copthorne, Surrey, UK. We provide electronic solutions to customers by designing, manufacturing and supplying components and systems globally to the electrical and electronic marketplace. Specialists in switching, sensing, resistive and hermetic seal solutions we have a wide portfolio of sensing technologies and over 60 years of application experience. Our in-house engineering capability and rapid prototyping facility for custom parts enable us to develop products to match specific application requirements. Willow is ISO9001:2000 registered.

Please contact Martin Pearce, Marketing Director, mpearce@willow.co.uk, +44 (0) 1342 717102