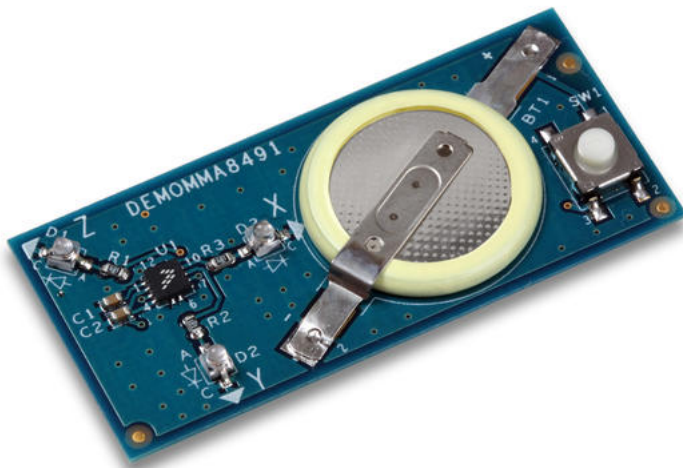


## **Micro-electromechanical system accelerometer features ultra-low power consumption**



Freescale Semiconductor

introduced a new micro-electromechanical system (MEMS) accelerometer featuring ultra-low power consumption and a simple plug-and-play approach to tilt threshold detection for use in physical tamper protection for smart meter applications. Freescale's Xtrinsic MMA8491Q energy-efficient accelerometer expands the portfolio to industrial markets requiring wide pin pitch, visually inspectable leads and long product life cycles.

Designed for applications requiring reduced complexity and advanced system integration, the Xtrinsic MMA8491Q accelerometer for tilt threshold sensing plays an integral role in Freescale's system-level smart meter reference designs that detect physical tampering (introduced at Sensor Expo 2012 and Metering Europe 2012). Movement of the meter is detected through the change in tilt angle and communicated to the utility company as a tampering event.

The Xtrinsic MMA8491Q accelerometer was designed to be very flexible and useful for a wide variety of applications beyond smart metering in which orientation needs to be accurately measured – motion detection in gaming consoles and home appliances, for example. The accelerometer also is ideal for tracking asset handling in business and industrial settings and can be employed in eHealth and portable health monitoring systems.

**Freescale Semiconductor**

<http://www.freescale.com>

[1]1 800 521 6274

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