

## Press Release

### Azoteq is the touch interface for Xiaomi's latest Mi Band 2

**July 10, 2016** - Azoteq, a world leader in low-power proximity and touch solutions, today announced their collaboration with Huami to provide the touch interface for Xiaomi's latest fitness tracker, the Mi Band 2.



After record-setting sales for the Mi Band 1, the Mi Band 2 is destined to set new benchmarks for wearable products once again.

Azoteq developed a power-optimized capacitive touch sensor in collaboration with Huami, Xiaomi's strategic partner for wearable products. Azoteq responded to a call for a sub-2 uA touch sensor to help achieve a benchmarking standby time of 20 days on a 70 mAh battery, making it one of the most energy-efficient fitness trackers to date.

The touch interface is used to scroll through menu functions on the OLED screen. Along with the new OLED display, the Mi Band 2 boasts an optical heart rate monitor, step counter, smartphone-style notifications, alarm, sleep tracker and a phone-unlocking feature.

"The IQS211A is a customized version of the standard IQS211 to drive power consumption down to sub-2 uA at a 160 ms sample rate", said Jean Viljoen, Azoteq's VP of Marketing. "Along with our local design/distributor partner Seltech, we responded to call from the industry to set the next benchmark in fitness trackers. We are proud of this collaboration with one of the world's rapidly growing consumer electronics companies."

#### **About the IQS211A touch and proximity sensor**

The IQS211A ProxSense® IC is a self-capacitance controller designed for applications for which an awake/activate on proximity/touch function is required. The IQS211A is an ultra-low-power solution that uses movement detection for applications that require long-term

detection. The IQS211A operates standalone or I2C, and can be configured via OTP (one-time programmable) bits.

### **IQS211A features:**

- Automatic tuning implementation (ATI)
- On-chip movement-detection algorithm
- Forced activation when movement is detected
- Minimal external components
- 25 mm detection distance
- Up to 60 pF sensor load (with effective movement detection)
- Multiple one-time-programmable (OTP) options
- Standalone direct outputs for detection and movement
- Standard I2C interface (polling)
- Alternate I2C interfaces (ready signal integrated onto I2C clock line)
- I2C configuration at start-up with standalone runtime operation
- I2C with wake-up
- 1-wire streaming interface

### **Applications**

- Low-power IoT touch, proximity or tamper sensors
- Movement-detection devices (fitness, security, hand held detection)
- Bluetooth headsets
- Remote controls
- Wearables
- White goods and appliances

### **About Azoteq (Pty) Ltd**

Azoteq (Pty) Ltd ([www.azoteq.com](http://www.azoteq.com)) is a leader in low-power proximity and touch solutions for buttons, sliders, scroll wheels and touch pads in consumer, IoT and wearable applications. Azoteq has design and manufacturing centers in South Africa and China, and sales offices and distributors in South Africa, Asia, Europe and the USA.

### **About Seltech**

SELTECH ([www.seltech-international.com](http://www.seltech-international.com)) is a specialized international distributor for acoustics, antennas and capacitive sensors in the professional market. Offices in France, China, and the United States with local FAE support. SELTECH provides best-in-class support from design to production, helping its customers reduce time to market and overall costs.

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