



June 28, 2017

Semtech's New Smart Proximity Sensor Optimizes RF Performance in Connected Devices

The smart sensing solution distinguishes human body from other objects and regulates RF exposure for targeted SAR reduction

CAMARILLO, Calif., June 28, 2017 (GLOBE NEWSWIRE) -- Semtech Corporation (Nasdaq:SMTC), a leading supplier of analog and mixed-signal semiconductors, today announced a new addition to its smart sensing solutions that enhances wireless connectivity by intelligently controlling the radio frequency (RF) power in connected devices including smart phones, tablets and wearables.

A photo accompanying this announcement is available at <http://www.globenewswire.com/NewsRoom/AttachmentNg/15eeb213-07c0-4741-8e38-20ed069a4483>

Specific Absorption Rate (SAR) is the measure of RF power that is radiated into the human body when in close proximity to a connected device. Aimed at the increasing demands of more powerful radios in today's mobile devices and to comply with the more stringent worldwide safety regulation, Semtech's SX9310 smart sensor enables smartphone and tablet manufacturers to selectively reduce the RF power when in close proximity to the human body and protects its user from potentially harmful RF exposure. The solution also maintains optimum network connectivity and throughput in other normal usage situations.



Semtech Smart Sensing Solution

Semtech's new smart sensing solution, SX9310

"Semtech offers a unique smart sensor solution targeting specifically SAR proximity applications," said David Wong, Senior Director for Semtech's Wireless and Sensing Products Group. "The new sensing solution provides best in-class sensitivity for optimal human presence detection enabling mobile manufacturers to comply with worldwide SAR regulation without otherwise compromising RF system performance."

Key Features of the SX9310

- | Unique on-chip smart engine for human detection and advanced Specific Absorption Rate (SAR) control
- | Capacitance offset compensation up to 100pF
- | Integrated RF shield for enhanced immunity
- | Exceptional low temperature drift for stable measurement
- | Up to three channels high-performance capacitive sensing inputs
- | Combined proximity mode to minimize the total sensor area
- | Extremely compact footprint (1.35 x 1.32mm WLCSP)
- | Ultra-low power consumption 2.7V - 5.5V input supply voltage
- | 1.65V - 5.5V 12C interface

Pricing and Availability

The SX9310 product (order code: SX9310ICSTRT) is available immediately in production quantities and is priced at \$1.14 each in 100-1,000 piece lots. Semtech offers comprehensive design assistance, including field- and factory-based support. Data sheets, volume pricing, and delivery quotes, as well as evaluation kits and samples are available at www.semtech.com/info.

Resources

- | [Product page](#)
- | [Product brief](#)
- | [Data sheet](#)
- | [Additional resources](#) (product videos, product family webpages, etc.)
- | For technical support or general product inquiries, contact [Semtech's support team](#).

- | For quarterly product updates, sign up for Semtech's e-newsletter [Inside Circuit](#).
- | Find Semtech on [Twitter](#), [Facebook](#), [LinkedIn](#) and [Google+](#).

About Smart Sensing Solutions

[Semtech's Smart Sensing Solutions](#) features best in-class sensitivity for optimal human presence detection allowing electronics manufacturers to comply with worldwide Specific Absorption Rate (SAR) control. The ultra-small, feature-rich sensing solutions are used to reduce and control radio frequency (RF) emission power in the presence of a human body, enabling significant performance advantages for manufacturers of electronic devices with electro-magnetic radiation sources to meet stringent emission regulations criteria. The sensors are optimized for a wide range of battery-powered, portable applications such as smart phones, wearables, tablets, GPS, portable computers, handheld gaming devices, and other consumer electronics.

About Semtech

Semtech Corporation is a leading supplier of analog and mixed-signal semiconductors for high-end consumer, enterprise computing, communications, and industrial equipment. Products are designed to benefit the engineering community as well as the global community. The Company is dedicated to reducing the impact it, and its products, have on the environment. Internal green programs seek to reduce waste through material and manufacturing control, use of green technology and designing for resource reduction. Publicly traded since 1967, Semtech is listed on the Nasdaq Global Select Market under the symbol SMTC. For more information, visit www.semtech.com.

Forward-Looking and Cautionary Statements

All statements contained herein that are not statements of historical fact, including statements that use the words "aimed at," or other similar words or expressions, that describe Semtech Corporation's or its management's future plans, objectives or goals are "forward-looking statements" and are made pursuant to the Safe-Harbor provisions of the Private Securities Litigation Reform Act of 1995, as amended. Such forward-looking statements involve known and unknown risks, uncertainties and other factors that could cause the actual results of Semtech Corporation to be materially different from the historical results and/or from any future results or outcomes expressed or implied by such forward-looking statements. Such factors are further addressed in Semtech Corporation's annual and quarterly reports, and in other documents or reports, filed with the Securities and Exchange Commission (www.sec.gov) including, without limitation, information under the captions "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Risk Factors." Semtech Corporation assumes no obligation to update any forward-looking statements in order to reflect events or circumstances that may arise after the date of this release, except as required by law.

Semtech and the Semtech logo are registered trademarks or service marks, or trademarks or service marks, of Semtech Corporation and/or its affiliates.

SMTC-P

The photo is also available at Newscom, www.newscom.com, and via AP PhotoExpress.

Contact:

Ronda Grech

Semtech Corporation

(805) 480-2193

rgrech@semtech.com

 Primary Logo

Source: Semtech Corporation

News Provided by Acquire Media