

New Product Announcement

Semtech's SX9310 SAR Proximity Sensor, Now at Mouser, Controls Human RF Exposure

September 12, 2017 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [SX9310](#) SAR proximity sensor from [Semtech](http://www.semtech.com). The SX9310 is a smart sensing solution that enables smartphone and tablet manufacturers to help protect users from potentially harmful [radio frequency](#) (RF) exposure.

The [Semtech SX9310](#) SAR proximity sensor, available from Mouser Electronics, regulates RF exposure to reduce specific absorption rate (SAR) — the measure of RF power that is radiated into the human body when in close proximity to a connected device. The smart [sensing](#) solution maintains optimum network connectivity and throughput while complying with SAR regulations for optimized data and voice communication quality of service.

The device features a unique on-chip smart engine designed for human detection and advanced SAR control. The device provides best in-class sensitivity for optimal human presence detection by offering up to three channels of high-performance capacitive sensing inputs, exceptional low temperature drift for stable measurement, and a combined proximity mode to help minimize the sensing area.

The SX9310 smart sensor features [ultra-low power](#) consumption and operates directly from a 2.7V – 5.5V input supply voltage. The device's built-in I²C serial communication bus port is compatible with the 1.8V host control to help report body detection and proximity and to facilitate parameter setting adjustments. The SX9310 also includes an auto-calibration controller that regularly performs sensitivity adjustments to maintain peak performance over a wide variation of temperature, humidity, and noise environments.

Semtech's SX9310 SAR proximity sensor is optimized to meet stringent emission regulations criteria and SAR safety standards for a wide range of consumer electronics applications, including smartphones, wearables, tablets, notebooks, and mobile hotspots.

To learn more, visit <https://www.mouser.com/new/semtech/semtech-sx9310-sar-sensor/>.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 4 million products from over 600 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 550,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <https://www.mouser.com/>.

About Semtech

Semtech Corporation is a leading supplier of high-quality analog and mixed-signal semiconductor products. The company is dedicated to providing proprietary solutions and breakthrough technology in power management, circuit protection, timing and synchronization, touch interface, video broadcasting, high-performance optical transport equipment (SerDes), high-reliability military products, low-power wireless RF, and digital sensor/signal conditioning ICs. Semtech's products are used in the following markets: Smartphones, LCD TVs, Notebook Computers, Wireless LAN Modems, Automatic Meter Reading, Ultra-Low Power Medical, Satellite Communication, Cellular Infrastructure, Optical Transport and Datacenters.

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Further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Manager, Corporate Communications and Media Relations
(817) 804-7764
Kelly.DeGarmo@mouser.com