

## New Product Announcement

# Mouser Stocks Cypress' S6AE101A Energy Harvesting PMIC

*Low-Power Device Enables Tiny Solar-Powered Wireless Sensors*

**July 12, 2016** – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [S6AE101A](#) Energy Harvesting Power Management Integrated Circuit (PMIC) device from [Cypress Semiconductor](#). The S6AE101A PMIC device is a [low-power](#), single-chip [energy harvesting](#) PMIC that can be used with [solar](#) cells as small as 1cm<sup>2</sup> to enable tiny, solar-powered wireless [sensors](#) for [Internet of Things](#) (IoT) applications. The new PMIC device is fully integrated, making it ideal for battery-less Wireless Sensor Nodes (WSNs) that monitor physical and environmental conditions for smart homes, commercial buildings, [factories](#), infrastructure, and agriculture.

The [Cypress S6AE101A](#) Energy Harvesting PMIC device, available from Mouser Electronics, addresses size and power limitations of [WSNs](#) by providing startup power of 1.2µW — 4 times lower than similar devices — and consumption current as low as 250nA, maximizing the power available for the sensing, processing and communications functions of a target application. The S6AE101A PMIC device enables efficient harvesting from sunlight, vibrations and thermal variations, and offers power-switching circuits that monitor input power from solar cells and primary batteries, making it a reliable, flexible option to fully power or extend the [battery life](#) in IoT applications.

Mouser is also stocking the [Cypress Solar-Powered IoT Device Kit](#), a complete, battery-free Energy Harvesting solution that pairs the S6AE101A PMIC with the [CYBLE-022001-00](#) EZ-BLE™ Programmable Radio-on-Chip (PRoC™) module for Bluetooth® Low Energy (BLE) connectivity, along with supporting software. The fully-certified, small-form-factor EZ-BLE PRoC module works with the PMIC device to contribute to the low power and ease-of-use of an energy harvesting system solution. The Solar Powered IoT Device Kit provides everything needed to develop a light-powered sensor node that transmits sensor data using BLE.

To learn more about the S6AE101A Energy Harvesting PMIC, visit <http://www.mouser.com/new/Cypress-Semiconductor/cypress-s6ae101a-pmics/>.

For more information on the Solar-Powered IoT Device Kit, visit <http://www.mouser.com/new/Cypress-Semiconductor/cypress-iot-device-kit/>.

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### **About Mouser Electronics**

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### **About Cypress**

Founded in 1982, Cypress is the leader in advanced embedded system solutions for the world's most innovative automotive, industrial, home automation and appliances, consumer electronics and medical products. Cypress's programmable systems-on-chip, general-purpose microcontrollers, analog ICs, wireless and USB-based connectivity solutions and reliable, high-performance memories help engineers design differentiated products and get them to market first. Cypress is committed to providing customers with the best support and engineering resources on the planet enabling innovators and out-of-the-box thinkers to disrupt markets and create new product categories in record time.

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