

New Product Announcement

Mouser Electronics Now Stocking ams AS7038xB and AS7030B Vital Sign Sensors

February 24, 2021 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking [AS7038xB](#) vital sign sensors and the [AS7030B](#) vital sign sensor module from [ams](http://www.ams.com). The small sensors are suitable for innovative applications in [medical](#) wearables and remote diagnostic equipment, such as disposable patches used for blood oxygen saturation (SpO2) and electrocardiogram (ECG) measurement.

The ams [AS7038RB and AS7038GB](#) sensors and [AS7030B](#) sensor module, available from Mouser Electronics, are based on photoplethysmography (PPG) and electrocardiogram (ECG), two popular methods for heart rate monitoring (HRM) and heart rate variability (HRV), which measure the pulse rate by sampling light modulated by blood vessels. The AS7038RB sensor is the industry's thinnest dedicated [sensor](#) for SpO2 measurement, at just 3.70 mm × 3.10 mm × 0.65 mm. The sensor's combination of small size, integrated functionality, and a high-performance signal chain enables designers to incorporate vital monitoring capability to small consumer products such as earbuds, smart watches and wristbands, as well as to medical devices such as patches and oximeters. The sensor's unique on-wafer interference filter technology developed by ams enables it to capture optical signals in the 590nm-710nm and near infrared (800nm-1050nm) wavelength bands for SpO2 measurement, while blocking interference from ambient light at other wavelengths.

The AS7038GB version features peak sensitivity at the 525nm (green) wavelength for use in heart rate (HRM) and heart rate variability (HRV) measurement, while the AS7030B HRM/HRV sensor module integrates two 535nm LEDs in a single 3.55 mm × 6.2 mm × 1 mm package.

To learn more about the AS7038RB and AS7038GB sensors, visit <https://www.mouser.com/new/ams/ams-as703x-biosensors/>. To learn more about the AS7030B module, go to <https://www.mouser.com/new/ams/ams-as7030b-vital-sign-sensors/>.

As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a [Technical Resource Center](#), along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an authorized semiconductor and electronic component distributor focused on New Product Introductions from its leading manufacturer partners. Serving the global electronic design engineer and buyer community, the global distributor's website, mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 1,100 manufacturer brands. Mouser offers 27 support locations worldwide to provide best-in-class customer service in local language, currency and time zone. The distributor ships to over 630,000 customers in 223 countries/territories from its 1 million-square-foot, state-of-the-art distribution facilities in the Dallas, Texas, metro area. For more information, visit <https://www.mouser.com/>.

About ams

ams is a global leader in the design and manufacture of advanced sensor solutions and analog ICs. The company's mission is to shape the world with sensor solutions by providing a seamless interface between humans and technology. ams' high-performance analog products drive applications requiring extreme precision, dynamic range, sensitivity, and ultra-low power consumption. Products include sensors, sensor interfaces, power management and wireless ICs for consumer, communications, industrial, medical, and automotive markets.

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Further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
+1 (817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Manager, Corporate Communications and Media Relations
+1 (817) 804-7764
Kelly.DeGarmo@mouser.com