

New Product Announcement

Analog Devices' AD8233 AFE for Medical Wearables Now Shipping from Mouser

November 28, 2016 – [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 [AD8233](#) analog front end (AFE) for heart monitor devices from [Analog Devices](#). The AD8233 AFE is a fully integrated, single-lead [electrocardiogram](#) (ECG) front end designed in a compact, easy-to-use component. The low-power biopotential AFE enables smaller, lighter, and less obtrusive cardiac monitoring devices with longer [battery life](#). The highly integrated AD8233 AFE eliminates unnecessary costs and extra design time, helping developers get products to market more quickly.

The [Analog Devices AD8233 analog front end](#), available from Mouser Electronics, is an integrated signal conditioning block designed to extract, amplify, and filter small biopotential signals in the presence of noisy conditions, such as those created by motion or remote electrode placement. This design allows for an ultra-low-power analog-to-digital converter (ADC) or an embedded microcontroller to easily acquire the output signal.

The device's tiny, 2.0mm × 1.7mm footprint enables designers to create [wearable](#) health devices that are smaller, lighter, and easier to wear. Along with its small size, the single-supply (1.7V to 3.5V) AD8233 features extremely low quiescent current of 50 µA (typical), resulting in greatly extended battery life that helps support continuous monitoring without the interruption of a recharge or battery replacement.

For ease-of-use and flexibility, the AD8233 includes an integrated right leg drive (RLD) amplifier with shutdown plus an uncommitted op amp. The device also provides a two-pole adjustable high-pass filter, a three-pole adjustable low-pass filter with adjustable gain, and a [radio frequency](#) interference (RFI) filter to allow for consistent, confident operation in an inherently [harsh electrical environment](#) under a range of use cases. The AD8233 is supported by the [AD8233CB-EBZ](#) evaluation board, a ready-to-use AFE tool with the necessary inputs, outputs, supplies, and leads routed to test pins to simplify connectivity.

To learn more, visit <http://www.mouser.com/new/Analog-Devices/adi-ad8232-amplifier/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in 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 updated many times daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser 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 more than 600 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 500,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital worlds with unmatched technologies that sense, measure and connect.

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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