



New Product Announcement

Mouser Electronics Now Stocking Analog Devices' ADcmXL1021-1 Vibration Sensor for Industrial Systems

May 12, 2020 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [ADcmXL1021-1](#) vibration sensor from Analog Devices, Inc. Based on Analog Devices' microelectromechanical system (MEMS) sensor technology, the ADcmXL1021-1 module is a complete sensing system that monitors for early indications of possible machine fatigue and failure specifically in [industrial](#) and transportation equipment to help reduce repair costs and maintain a high level of productivity.

[Analog Devices' ADcmXL1021-1](#), available from Mouser Electronics, is a single z-axis vibration monitoring subsystem designed to simplify the development of smart [sensor](#) nodes in condition-based monitoring (CBM) systems. The device incorporates a wide-bandwidth, low-noise [MEMS](#) accelerometer plus an analog-to-digital converter (ADC), high-performance signal processing, data buffers, record storage, and a user interface that easily works with most embedded processors. The device's signal processing includes high-speed data sampling (220 kSPS), 4096 time sample record lengths, filtering, windowing, fast Fourier transform (FFT), user-configurable spectral or time statistic alarms, and error flags.

The ADcmXL1021-1 uses an [ADXL1002](#) MEMS accelerometer with ultra-low noise density (26 $\mu\text{g}/\sqrt{\text{Hz}}$) to support excellent resolution. With a wide bandwidth of DC to 10 kHz, the device enables tracking of key vibration signatures on many machine-based platforms. The ADcmXL1021-1 offers a high operating input range of ± 50 g, making it suitable for vibration measurements in high-bandwidth Industrial [Internet of Things](#) (IIoT) and Industry 4.0 applications such as vibration analysis systems that monitor and diagnose machine or system health, as well as safety shutoff sensing.

Mouser also stocks the [EVAL-ADCM-1](#) evaluation kit, which includes the ADcmXL1021-1 module, a breakout board, an ADcmXL interface board, a Cypress Semiconductor EZ-USB® FX3™ board, and necessary cables. Engineers can connect the kit to a PC to access evaluation software for effortless configuration of the module, register setup, data display, and data logging.

To learn more about the ADcmXL1021-1 vibration sensor, visit
<https://www.mouser.com/new/analog-devices/adi-adcmxl1021-1-vibration-sensor/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

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 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 1 million sq. ft. state-of-the-art facilities south of Dallas, Texas. For more information, visit www.mouser.com.

About Analog Devices

Analog Devices is a leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>.

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