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New Product Announcement

Now at Mouser Electronics: STMicroelectronics' VL53L1X ToF Proximity Sensor, Measures Distance to 4 Meters

April 30, 2018 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the VL53L1X time-of-flight (ToF) proximity sensor from STMicroelectronics (ST). Part of ST's FlightSense™ product family, the VL53L1X is the fastest miniature ToF sensor on the market, boasting accurate distance measurement up to 4 meters and fast-ranging frequency up to 50 Hz.

The ST VL53L1X ToF proximity sensor, available from Mouser Electronics, is an all-in-one miniature module that contains a 940 nm laser driver and emitter, as well as a single photon avalanche diode (SPAD) photodetector array for exceptional ranging speed and reliability. The VL53L1X offers a typical field of view (FoV) of 27 degrees with a programmable region-of-interest (ROI) size on the SPAD array, which enables a reduced FoV and multizone operation control from the host.

The VL53L1X proximity sensor utilizes a single power supply and I^2C interface, and is pin-to-pin compatible with ST's previous-generation VL53L0X sensor, allowing for easy replacement in existing products. The versatile sensor supports laser-assisted autofocus and video focus tracking assistance, making it suitable for a variety of applications, including user detection in personal computers, Internet of Things (IoT) devices, smart vending machines, smart lighting, service robots, and drones.

The VL53L1X sensor is supported by the X-NUCLEO-53L1A1 expansion board and the P-NUCLEO-53L1A1 evaluation kit. The X-NUCLEO-53L1A1 expansion board for ST Nucleo STM32 development boards includes two VL53L1X breakout boards, as well as a cover glass holder and three spacers of different height to simulate an environment as close as possible to the final application. The P-NUCLEO-53L1A1 evaluation kit includes everything included with the X-NUCLEO-53L1A1 and adds an STM32F401RE Nucleo board, which provides an affordable and flexible way for users to try out new ideas and build prototypes with any STM32 microcontroller.

To learn more, visit www.mouser.com/stm-tof-proximity-sensor.

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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 700 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 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.

Trademarks

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