

New Product Announcement

Mouser Electronics Stocks the Texas Instruments LDC2114 Inductive Touch Solution

March 2, 2017 – [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 [LDC2114](#) inductive touch solution from [Texas Instruments](http://www.ti.com) (TI), with the LDC2112 solution coming soon. New additions to [TI's sensing solutions](#), the LDC2112 and LDC2114 are multi-channel low-noise inductance-to-digital converters optimized for inductive touch applications on monolithic surfaces.

Inductive sensing technology enables touch button design on a wide variety of materials such as metal, glass, plastic, and wood by measuring small deflections of conductive targets. The sensor for an inductive touch system is a coil that can be implemented on a small, compact PCB located behind a panel and protected from the environment.

[TI's LDC2114](#), now available from Mouser Electronics, and LDC2112 solution are 1.8V, multi-channel low-noise inductance-to-digital converters with integrated algorithms to implement inductive touch applications. The two-channel LDC2112 and four-channel LDC2114 devices employ an innovative inductive-capacitive (LC) resonator that offers high rejection of noise and interference, with a wide range of [oscillation](#) frequencies from 1 MHz to 30 MHz. With adjustable sensitivity per input channel, the LDC2112 and LDC2114 can reliably detect material deflections of less than 200 nm with a wide range of physical button structures and materials. The high-resolution measurement further enables the implementation of multi-level buttons.

The LDC2112 and LDC2114 devices can operate in an [ultra-low-power](#) mode of 6 μ A for optimal battery life, or can be toggled into a higher scan rate for more responsive button press detection for game play or other low-latency applications. The devices are configured through 400 Hz I²C, and the only external components necessary for operation are supply bypass capacitors and a COM pin capacitor to ground. The LDC2112 and LDC2114 devices are ideal for smartphones, wearable devices, tablets and [PCs](#), virtual reality headsets, remote controls, and human-machine interface (HMI) panels and keypads.

The LDC2112 and LDC2114 are supported by the [LDC2114EVM](#) evaluation module. The LDC2114EVM can connect up to four buttons using the [LDCCOILEVM](#) or customized coils designed using the WEBENCH® Inductive Sensing Designer. The board offers integrated and configurable algorithms for button press detection with onboard LED indicators.

For more information on the LDC2112 and LDC2114, visit <http://www.mouser.com/new/Texas-Instruments/ti-ldc2112-ldc2114-sensors/>. To learn more about the LDC2114EVM, go to <http://www.mouser.com/new/Texas-Instruments/ti-ldc2114evm-tool/>.

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