TSC2013-Q1

Dual resistive touch screen controller for automotive applications

Texas Instruments

Dual-touch gestures for the price of single touch!

Overview

TSC2013-Q1 is TI's resistive dual-touch screen controller designed to work with power sensitive, low cost touch screen displays in automotive infotainment, motorcycle navigation and cluster systems. It contains a complete 12-bit ADC and control logic to measure touch pressure. TSC2013-Q1 enables flick, rotate and zoom functionality over a standard 4-wire interface. This device can be easily programmed to customize system interface and user experience.

Key Features

- Dual Touch Gestures – zoom in, zoom out & rotate
- Programmable 12-bit ADC with 3.4Mhz high speed I²C mode
- 1.2V to 3.6V supply
- Available in QFN and TSSOP packages
- Versatile & robust solution

Benefits

- Supports navigation map functionality
- Enables simplicity in system design & tuning
- Operates with low supply voltage
- Both packages are AEC-Q100 qualified for automotive applications
- Glove friendly, works with any touch source. Robust against environmental pollutants

Design Resources & References

TI offers design tools and layout guidelines to simplify your design and expedite time to market.

EVM with demo video
ti.com/tsc2013evm

TI Design with Haptics
ti.com/tida-00198

App Notes
ti.com/tsc2013-q1

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Applications

- Automotive entry infotainment
- Motorcycle navigation
- Motorcycle instrument cluster

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265