

Texas Instruments CAPTIVATE-PHONE Demonstration Board

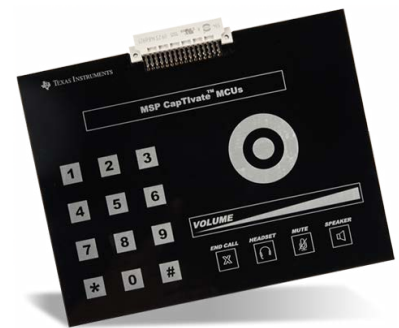
Product Overview

07-06-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

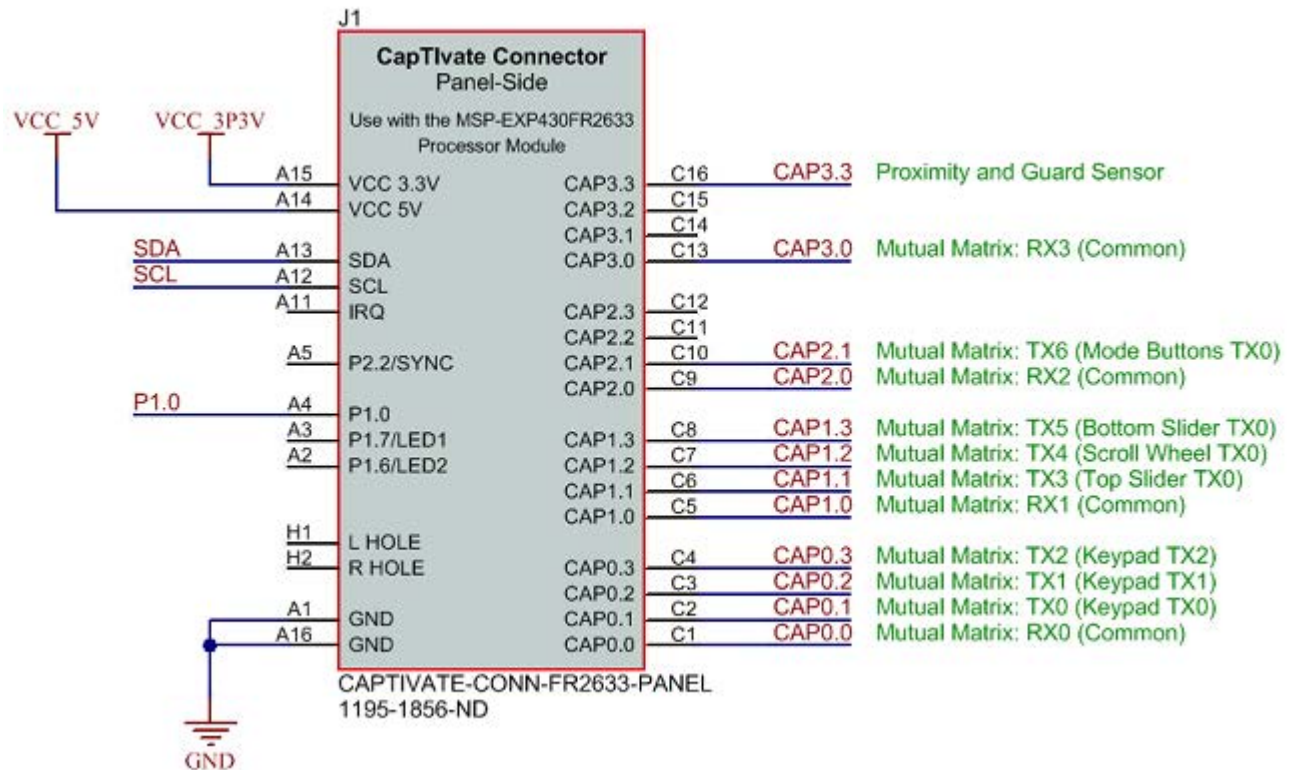
Texas Instruments CAPTIVATE-PHONE Demonstration Board is a simple evaluation platform for mutual capacitance capacitive touch sensors using a variety of configurations. The sensor panel demonstrates how to matrix mutual capacitance touch sensors for high-density and low pin count. This showcases the recommended layout for mutual capacitance slider and wheel sensors. The CAPTIVATE-PHONE panel also demonstrates how to implement guard channel to prevent false touch detections due to palm or cleaning cloth. The haptic driver and actuator are included to provide vibrational feedback to the user when touches are detected. The CAPTIVATE-PHONE is a demonstration sensing panel with 17 buttons, 2 sliders, a wheel, and a proximity/guard sensor.



Features

- Interfaces to CapTivate ecosystem MCU boards
- Implements 29 capacitive touch elements using just 12 CapTivate IOs
- Contains 17 buttons, two 4-element sliders, one 3-element wheel, and one guard channel
- Implements a guard channel for palm rejection
- Provides haptic feedback using the TI DRV2605L haptic driver with integrated effects libraries

Block Diagram



Associated Product

- [MSP430FR263x / MSP430FR253x Ultra-Low-Power MCUs](#)

Mouser Part Number(s)

[595-CAPTIVATE-PHONE](#)

To learn more, visit <https://www.mouser.com/new/texas-instruments/ti-captivate-phone-demo-board/>