CAPTIVATE-FR2633

Capacitive touch MSP430FR2633 MCU board

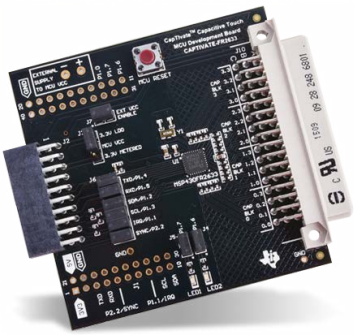
Product Overview

06-28-2021

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

Description

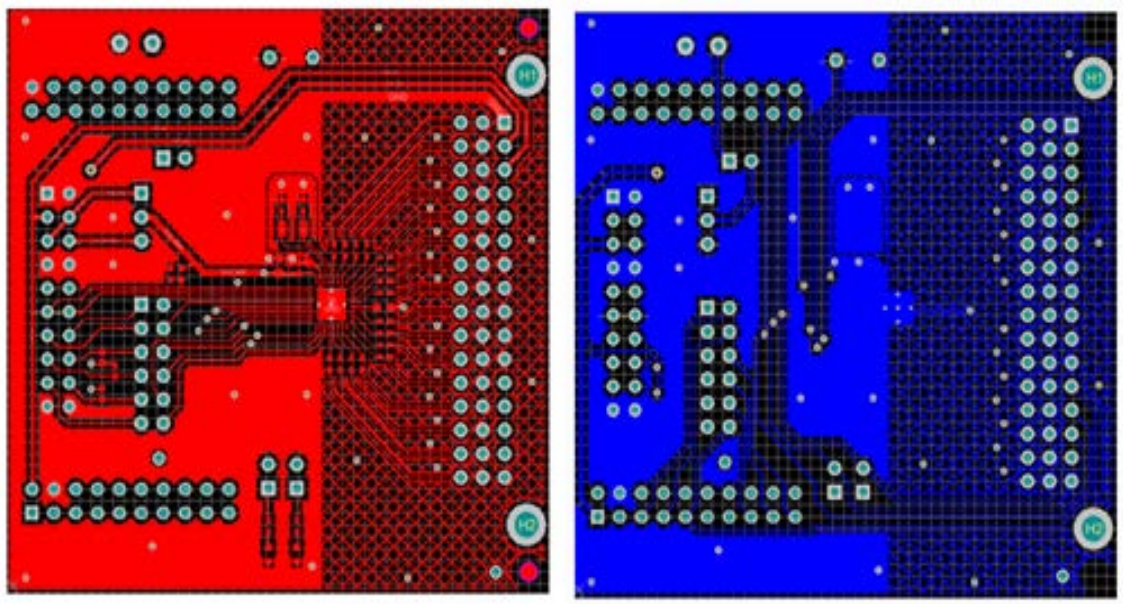
Texas Instruments CAPTIVATE-FR2633 Evaluation Board is designed for CapTIvate™ MSP430FR2633 MCU. This simple evaluation board evaluates capacitive touch and proximity sensors with the help of plug-in sensor boards. The MCU board includes 20-pin female debug connector for debugging the on-board MSP430FR2633 MCU and a 48-pin sensor panel connector for connecting to external capacitive-touch sensors. The CAPTIVATE-FR2633 evaluation board consists of partially filled out BoosterPack™ plug-in module header that enables limited LaunchPad™ and BoosterPack ecosystem support.



Features

- Interfaces to CapTIvate ecosystem sensor panel boards like the CAPTIVATE-BSWP
- 16 capacitive touch-enabled IOs available on the sensor panel connector
- Limited BoosterPack module support
- Provision for an external 2-pin power header that can be used to provide external power to the PCB
- Sensor connector, 48-pin compatible with all CapTIvate demonstration panels, such as CAPTIVATE-BSWP
  - 16 CapTIvate IO
  - 5 General Purpose IO
  - I2C (EUSCI_B0)
  - 3.3V
  - 5V (VBUS)
- 20-pin CAPTIVATE-PGMR programming connector
  - Two wire "Spy-Bi-Wire" MCU programming
  - Serial Communication with HID bridge UART (EUSCI_A0) and I2C (EUSCI_B0)
- Two 3.3V supplies (selected by jumper)
  - Normal operation (can power MCU and other +3.3V devices)
  - Measure MCU current in code composer studio using energy trace and trade
- 40-pin BoosterPack connector compatible

Layout



Top Layer

Bottom Layer

Mouser Part Number(s)

View All Parts

To learn more, visit https://www.mouser.com/new/texas-instruments/ti-captivate-fr2633-eval-board/