

# MSP430 CapTivate MCU Programmer

(ACTIVE) CAPTIVATE-PGMR

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## Key Document

CapTivate™ Technology Guide

View All Technical Documents (5)



CAPTIVATE-PGMR MSP430 CapTivate MCU Programmer Board Image

## Description

The MSP430 CapTivate MCU Programmer is available standalone or as part of the MSP CapTivate™ MCU Development Kit, a comprehensive, easy-to-use platform to evaluate MSP430FR2633 microcontroller with capacitive touch technology. The programmer/debugger board can be used with the BOOSTXL-CAPKEYPAD BoosterPack™ module and the CAPTIVATE-METAL capacitive touch through metal add-on board. The programmer features EnergyTrace™ technology to measure energy consumption with the Code Composer Studio™ IDE. MSP MCUs with CapTivate technology are the industry's lowest power capacitive touch MCUs with 10 V rms noise immunity and support for dirt-proof, glove-friendly designs.

## Features

- Programmer board compatible with CapTivate MCU boards
- EnergyTrace Technology to measure power consumption with Code Composer Studio
- CapTivate programming header for interfacing with CapTivate MCU boards
- USB HID-Bridge communications interface allows easy debug data transfer between the target and a PC over UART or I2C

## What's Included

- 1x CAPTIVATE-PGMR CapTivate Programmer Board
- 1x USB Micro Cable

## Order Now

Part Number	Buy from Texas Instruments or Third Party	Status
<b>CAPTIVATE-PGMR:</b> MSP430 CapTivate MCU Programmer	(USD)  <b>Buy from TI</b>	Pricing may vary.  <b>Buy from distributor</b>
<b>CAPKEYPAD-PGMR-BNDL:</b> CapTivate™ Keypad BoosterPack + Programmer Board Bundle	(USD)  <b>Order Online</b>	Not Available

Contact a Distributor

TI's Standard Terms and Conditions for Evaluation Modules apply.


## Technical Documents

### Datasheet (3)

Title	Abstract	Type	Size (KB)	Date	Views
MSP430F552x, MSP430F551x Mixed-Signal Microcontrollers datasheet (Rev. N)		PDF	2410	20 Sep 2018	
MSP430FR25x2 Capacitive Touch Sensing Mixed-Signal Microcontrollers datasheet (Rev. A)		PDF	2250	28 Aug 2018	
MSP430FR263x, MSP430FR253x Capacitive Touch Sensing Mixed-Signal Microcontrollers datasheet (Rev. C)		PDF	4098	28 Aug 2018	

Title	Abstract	Type	Size (KB)	Date	Views
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### More literature (1)

Title	Abstract	Type	Size (KB)	Date	Views
 CAPTIVATE-PGMR EC Declaration of Conformity (DoC)		PDF	37	26 Oct 2016	15

### Related Products

### Software (1)

Name	Part Number	Software Type
CapTivate™ Design Center GUI for MSP430™ Capacitive Sensing MCUs	MSPCAPTDSNCTR	Software Libraries

### Design Kits & Evaluation Modules ( 2 )

Name	Part Number	Tool Type
MSP CapTivate MCU Development Kit	MSP-CAPT-FR2633	Evaluation Modules & Boards
MSP430 CapTivate™ Touch Keypad BoosterPack	BOOSTXL-CAPKEYPAD	Evaluation Modules & Boards

### Reference Designs ( 1 )

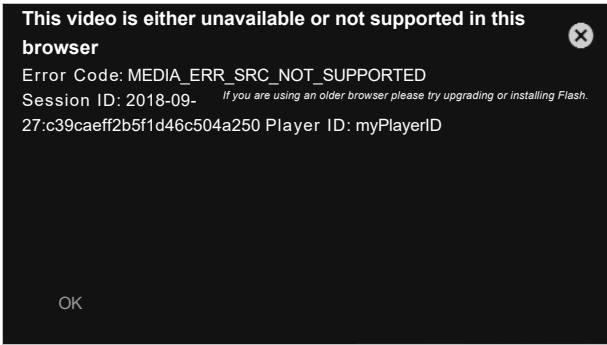
Name	Part Number	Tool Type
MSP430FR2633 Microcontroller CapTivate Electronic Lock and Keypad Reference Design	TIDM-CAPTIVATE-E-LOCK	TI Designs

### TI Devices (13)

Part Number	Name	Product Family
MSP430F5528	25 MHz MCU with Integrated USB Phy, 128KB Flash, 8KB RAM, 12Bit/10 Channel ADC, 32BIT HW Multiplier	MSP430 ultra-low-power MCUs
MSP430FR2512	MSP430 MCU With CapTivate Technology - the Lowest Power, Most Noise-immune Capacitive Touch	MSP430 ultra-low-power MCUs
MSP430FR2522	MSP430 MCU With CapTivate technology - the Lowest Power, Most Noise-immune Capacitive Touch	MSP430 ultra-low-power MCUs
MSP430FR2532	16 MHz Ultra-Low-Power Microcontroller With 8 KB FRAM, CapTivate Touch Technology	MSP430 ultra-low-power MCUs
MSP430FR2533	16 MHz Ultra-Low-Power Microcontroller with 16 KB FRAM, CapTivate touch technology	MSP430 ultra-low-power MCUs

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### Videos



#### Demo of the Capacitive Touch BoosterPack with the CapTivate Programmer Board


This demo of the BOOSTXL-CAPKEYPAD BoosterPack and the CapTivate Programmer board shows how you can evaluate capacitive sensing features and using the CapTivate Design Center you can modify the pre-

Posted: 22-Jan-2018

Duration: 02:42

[Learn more about the BOOSTXL-CAPKEYPAD capacitive touch BoosterPack module.](#)

#### Related Videos



Demo of the Capacitive Touch ...

### Support & Training

#### Need help? Support topics for you

-  [MSP430FR2632: Spy-bi-wire locking up](#)

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-  [GCC/MSP430FR2632: Incompatible header files when compiling](#)