TEXAS INSTRUMENTS
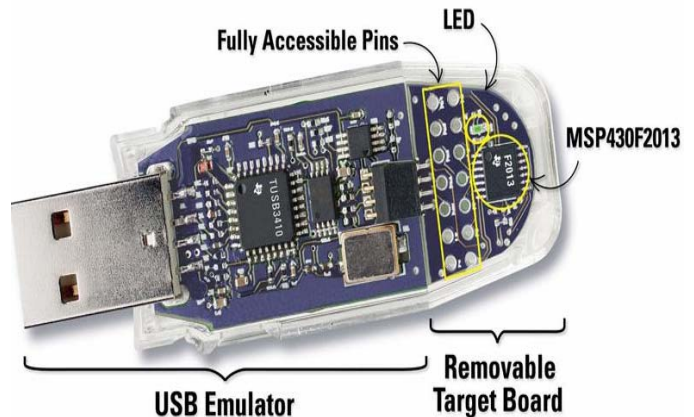
Texas Instruments - EZ430-F2013 - MCU - Development Tool

Product Overview:

The eZ430-F2013 is a complete MSP430 development tool including all the hardware and software to evaluate the 16-bit mixed signal microcontroller MSP430F2013 and develop a complete project in a convenient USB stick form factor. The eZ430-F2013 supports the Code Composer Studio and IAR Embedded Workbench Integrated Development Environments to provide full emulation with the option of designing with a stand-alone system or detaching the removable target board to integrate into an existing design. The USB port provides enough power to operate the ultra-low-power MSP430 so no external power supply is required.

Kit Contents:

The evaluation kit contains everything needed to develop and run applications for MSP430 microcontrollers including:

- One eZ430-F2013. The hardware is housed inside a plastic enclosure that may be opened in order to separate the MSP-EZ430D target board from the MSP-EZ430U debugging interface.
- One MSP430 Development Tool CD-ROM which contains several documents including the following related to the eZ430-F2013:

    o MSP430x2xx Family User's Guide
    o MSP-FET430 FLASH Emulation Tool User's Guide
    o MSP-FET430 FLASH Emulation Tool User's Guide Errata
    o eZ430-F2013 User's Guide
    o IAR Embedded Workbench Kickstart Version
    o Code Composer Studio MCU Edition

Key Features:

The development tool includes the following features:

- eZ430-F2013 development tool including a USB debugging interface and detachable MSP430F2013 target board
- eZ430-F2013 target board
  - LED indicator
  - 14 user accessible pins
- eZ430 debugging and programming interface
  - Supports development with all 2xx Spy Bi-Wire devices (MSP430F20xx, F21x2, F22xx)
  - Supports eZ430-T2012 and eZ430-RF2500T target boards
- Removable USB stick enclosure
- Includes IAR Kick start and Code Composer Studio which include an assembler, linker, source-level debugger and limited C-compiler

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EZ430-F2013	TI	1172234	87K7632

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MSP430F2013IPW	TI	16-Bit Mixed Signal Microcontroller IC	1172228	66K3842
TUSB3410VF	TI	USB to Serial Controller IC	1470519	36K2070
SN75240PW	TI	USB Transient Suppressor	1100941	74K3957
TPS77301DGK	TI	LDO Voltage Regulator	1510194	77C1213

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
EZ430-T2012	TI	MSP430 USB Stick F2012 Board	MSP430F2012	1359259	20M5139
EZ430-RF2500	TI	MSP430 Wireless Development Tool	MSP430F2274	1382267	55M5474
EZ430-RF2500-SEH	TI	MSP430 Solar Energy Harvesting Development Tool	MSP430F2274	1740342	50P9927

EZ430-RF2500T	TI	MSP430 2.4-GHz Wireless Target Board	MSP430F2274	1740341	08N6141

Document List:

Datasheets:

Part Number	Description	Size
MSP430F2013IPW	MSP430F2013 MCU	1.27MB
TUSB3410VF	USB to Serial Port Controller	1.25MB
SN75240PW	USB Transient Suppressor	679KB
TPS77301DGK	LDO Voltage Regulator	517KB

Application Notes:

File Name	Size
Simple 1.5 V Boost Converter for MSP430	49KB
Implementing a Bidirectional, Half-Duplex FSK RF-Link With TRF6900 and MSP430	784KB
PWM DC Motor Control Using Timer A of the MSP430	32KB
Pong Video Game Using the MSP430	67KB

Hardware & Software:

File Name	Size
Code Composer Studio (CCStudio) Integrated Development Environment (IDE) - v4.x	900MB
IAR Embedded Workbench Kick start - Free 4KB IDE	113MB