Meet the LaunchPad.

Up to Get Started
Ready, Set, Launch!
Ultra-Low Power

Additional resources @

www.ti.com/launchpad

Embedded, USB-powered emulation tool

Integrated DIP target socket supporting up to 20 pins

On-board programmable LEDs and pushbuttons

Supports all MSP430 Value Line and Spy Bi-Wire devices

MSP-EXP430G2 LaunchPad
Quick Start Guide

Meet the MSP-EXP430G2 LaunchPad experimenter board. LaunchPad is a complete USB-based development and experimenter tool providing everything you need to launch your own MSP430™ Value Line applications.

1. **Software and Driver Installation**
Go to www.ti.com/launchpad. Here, you can download free compilers & debuggers, including:
- Code Composer Studio™ version 4 (CCS)
- IAR Embedded Workbench Kickstart

Both will install the necessary drivers for LaunchPad.

2. **Connecting the Hardware**
Connect LaunchPad using the included USB cable to a Windows-enabled PC. If prompted, let Windows automatically install the software.

3. **The Demo Application - Internal Temperature Measurement**
LaunchPad includes a pre-programmed MSP430G2553 device. Once connected via USB, the demo will start an LED toggle sequence. Pressing button P1.3 will start the Temperature Measurement mode.

A reference temperature is measured at the beginning of this mode, and can be recalibrated with another button press. LaunchPad signals a rising or falling temperature by varying the brightness of the red and green LED. Temperature data is communicated via back-channel SW UART through USB to the PC.

4. **Launch Your Own Applications**
Both CCS and IAR offers full debugging and development capabilities. Just select the appropriate MSP430G2xx device in your project setting and start developing your application. Code examples, development resources, and complete list of compatible devices can be found at www.ti.com/launchpad
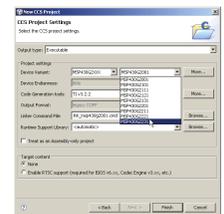
5. **Configure LaunchPad's serial communication**
MSP430G2xx3 devices include a USCI module, which is capable of HW UART. To use HW UART, position the TXD and RXD jumpers on J3 as shown in the image to ensure that the Rx and Tx pins are properly configured. If SW UART is used, the jumpers can be placed in either position, depending on how the Rx and Tx pins are configured in software. Code is available online for either HW or SW UART implementations.

HW UART

TXD RXD RST TEST VCC
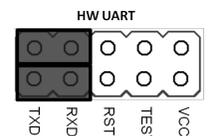
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