Meet the MSP-EXP432P401R LaunchPad Development Kit

Part Number: MSP-EXP432P401R

Below are the pins exposed @ the MSP-EXP432P401R LaunchPad BoosterPack connector.

Also shown are functions that map with the BoosterPack pinout standard. Refer to the MSP432P401R Datasheet for additional details.

NOTE: Some LaunchPads & BoosterPacks do not 100% comply with the standard, so please check your specific LaunchPad to ensure pin compatibility.

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Disclaimer: www.ti.com/lit/slau596a

See them all @ ti.com/boosterpacks
A closer look at your new LaunchPad Development Kit

Featured microcontroller:
MSP-EXP432P401R LaunchPad: Low-power at its best, performance at its core

What comes in the box?

MSP-EXP432P401R LaunchPad
This Quick Start Guide
Micro-USB Cable
Software available at
www.ti.com/simplelink

MSP-EXP432P401R Overview

SimpleLink SDK Overview
The SimpleLink™ MCU portfolio offers a single development environment that delivers flexible hardware, software and tool options for customers developing wired and wireless applications. With 100 percent code reuse across host MCUs, Wi-Fi™, Bluetooth® low energy, Sub-1GHz devices and more, choose the MCU or connectivity standard that fits your design. HYPERLINK "http://www.ti.com/simplelink" www.ti.com/simplelink

Out-of-box Demo

1. IDE and Drivers
Download IDE and drivers at ti.com/beginMSP432launchpad or experience the out-of-box demo live at dev.ti.com

2. Connect to the computer
Connect the LaunchPad using the included USB cable to a computer. A green power LED should illuminate. The LaunchPad will power up and the RGB LED (LED2) will toggle during the startup sequence. Now the LaunchPad will wait for commands from the GUI.

3. Open the Provided GUI
Open the out-of-the-box GUI executable at: TI Resource Explorer > Software > SimpleLink MSP432 SDK > Examples > Development Tools > MSP-EXP432P401R - Rev 2.x (Red) > Demos > outOfBox_msp432p401r > Out of Box Experience GUI

RGB LED Mode
This mode allows the user to set the color of the RGB LED using the provided PC GUI. Use the color wheel to set the color. Use the sliders to manipulate the channels of Red, Green, and Blue to make any color!

Blink the RGB LED
Use switch S1 to set the blink rate of the RGB LED (LED2). The pace at which the user presses S1 sets the blink speed of the LED. Switch S2 toggles between the colors of the RGB LED, blinking each individual color at different rates. S2 toggles between Red, Green, Blue, and a random RGB color. How fast can you blink the LED?

Ready to Learn More?
- Documentation
- SimpleLink MSP432 SD
- Driver Library
- Code Examples
- Application Notes
- Porting Guide
- Design Files
- TI Drivers
- and more!
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