

MSP-EXP432P401R LaunchPad

Out of Box例程

开箱即用的软件示例

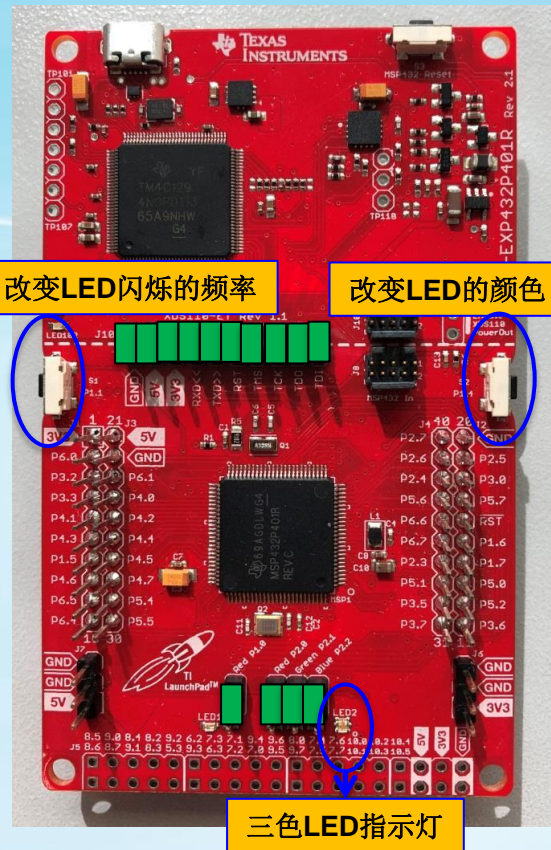
出厂时烧写的代码是一个基本的LED 闪烁示例，允许用户控制**MSP432** LaunchPad 开发套件上的**RGB LED** 的闪烁速率和颜色。

上电基本描述：

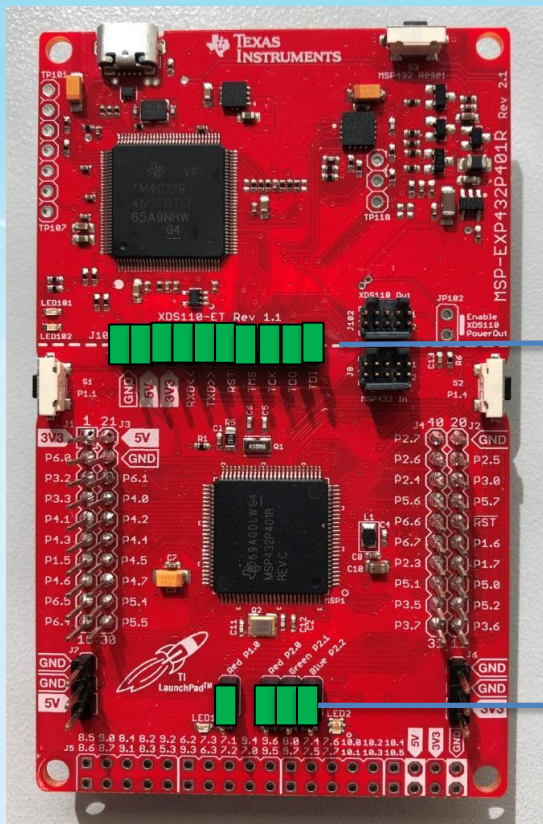
- 上电后，RGB LED2 以1Hz 的频率呈红色闪烁。
- 按下开关S1，可设置LED2 的闪烁频率
- 开关S2 设置LED2显示的颜色，在红色、绿色、蓝色和随机RGB 颜色这四种模式中循环显示。每种颜色设置均有自己的闪烁频率。

通过USB线连接电脑后：

- 可以通过图形界面设置RGB LED 的颜色和闪烁速率



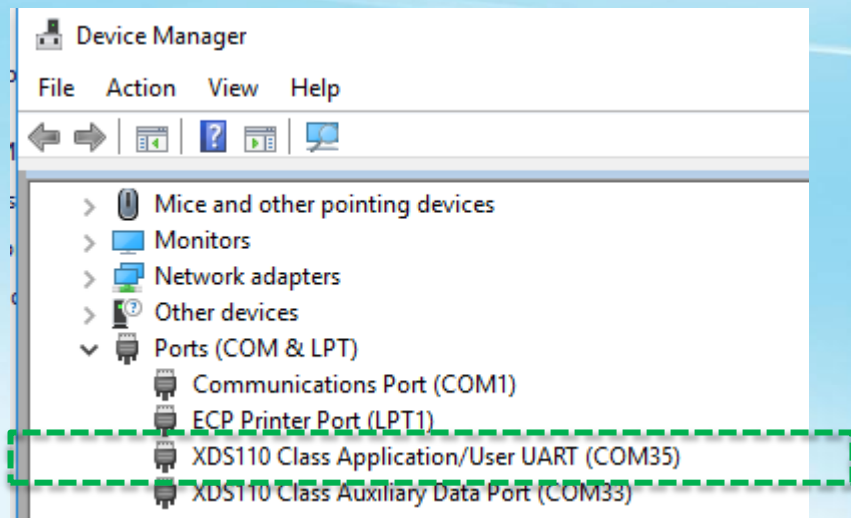
确认跳线帽设置



电源供电接上
UART通信接上
JTAG引脚

LED灯的跳线帽要接上

USB线接电脑，能正确识别

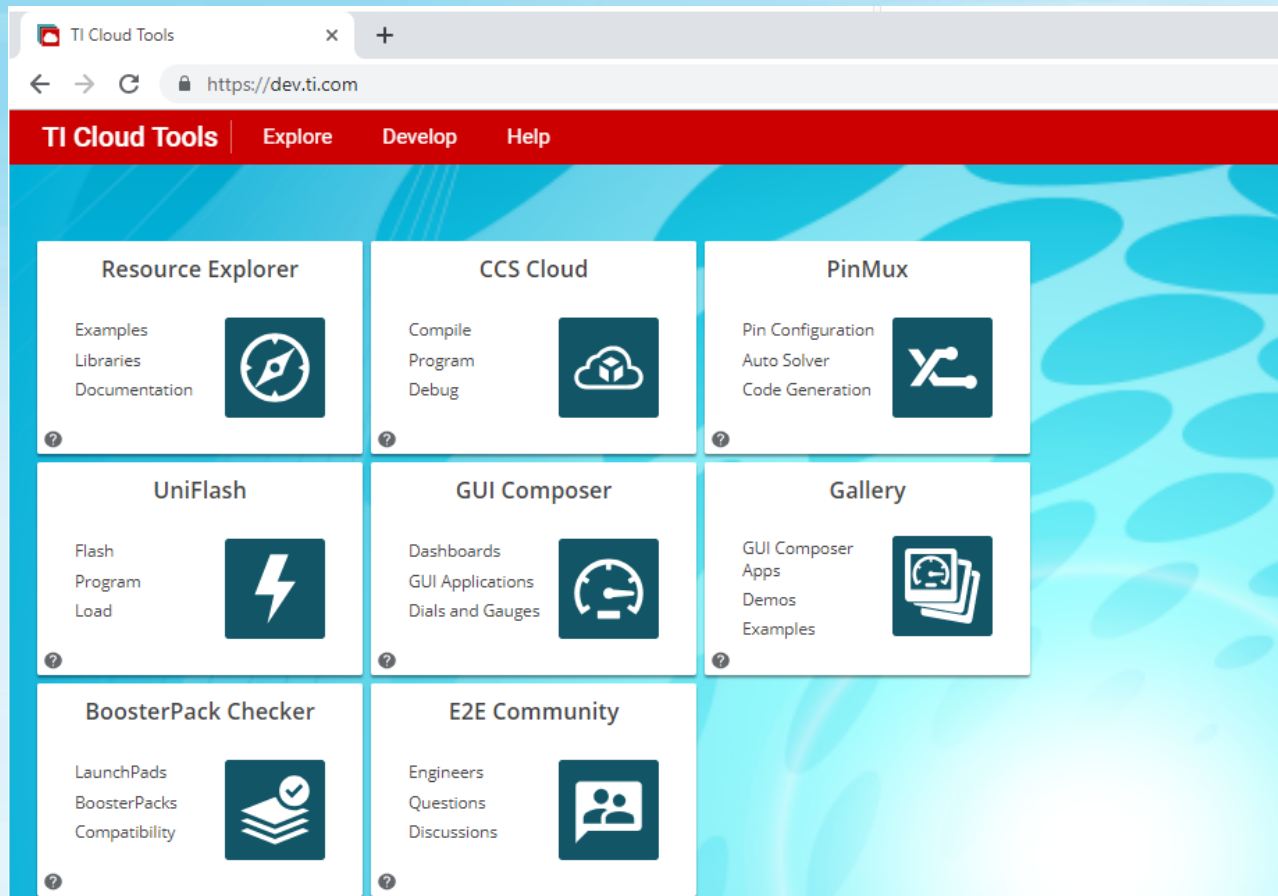


TI Cloud Tools （需要网络）

<https://dev.ti.com/>

直接使用TI 云工具运行GUI

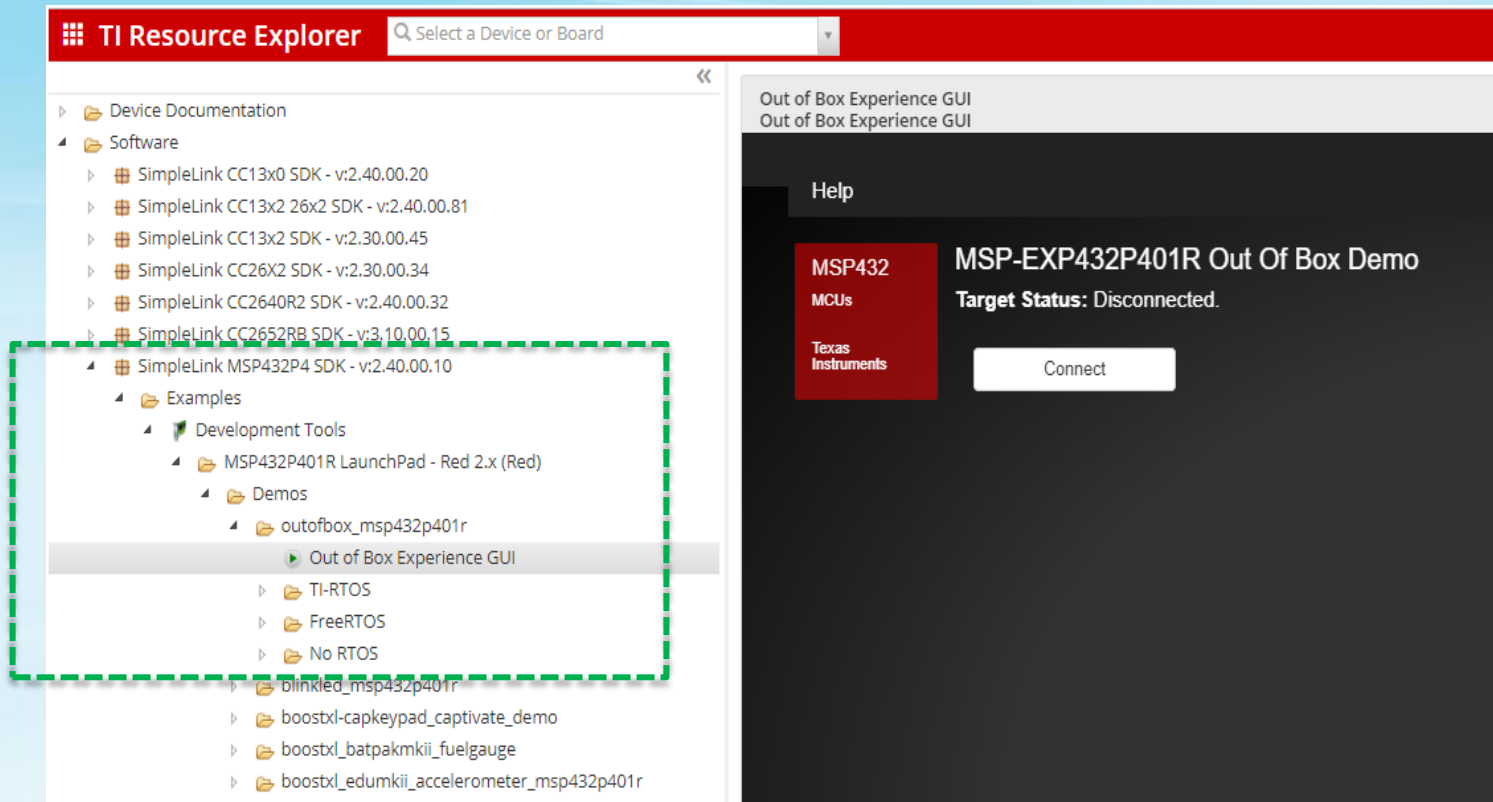
- 打开TI Cloud
- 选择 Resource Explorer



打开Out of Box Experience GUI

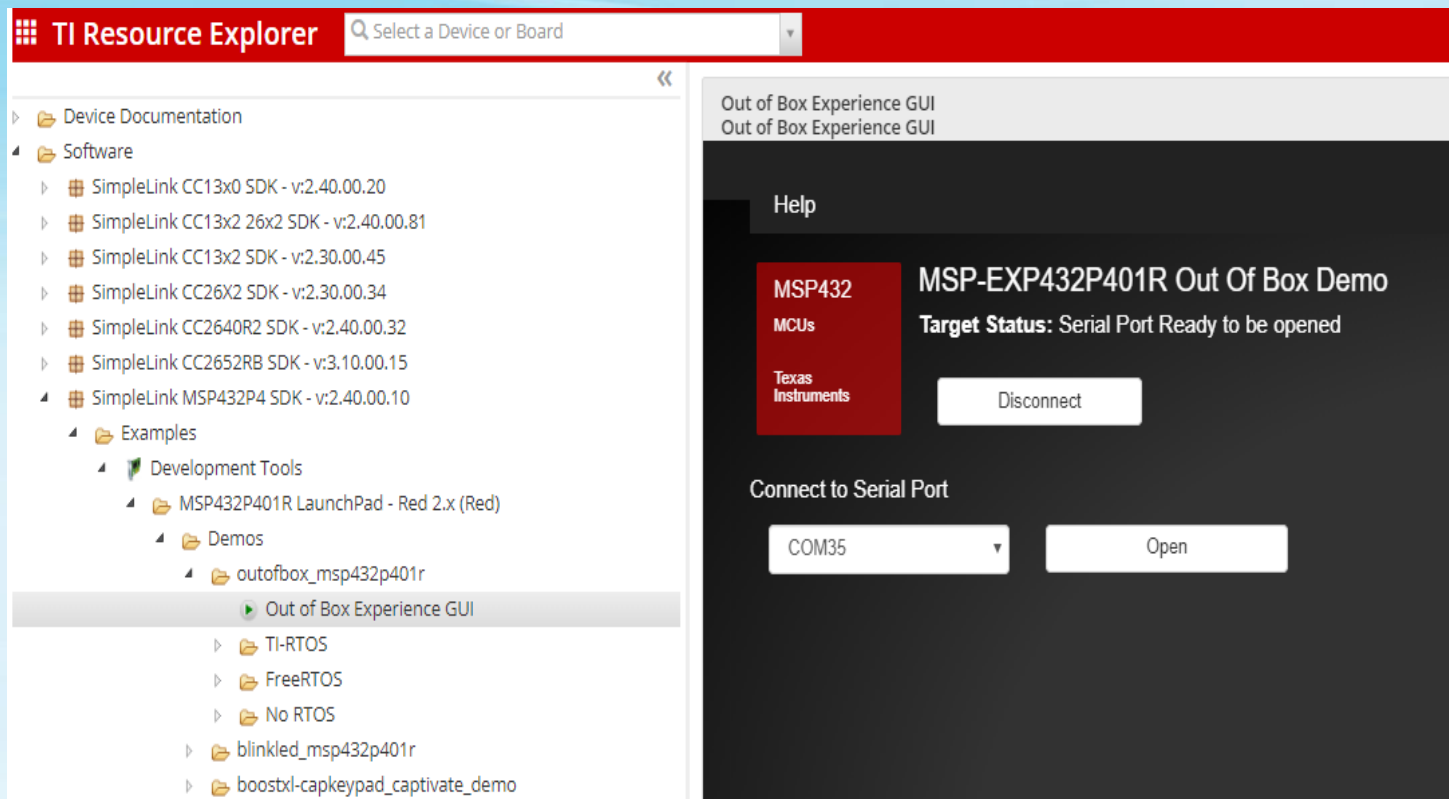
Software / SimpleLink MSP432P4 SDK-V:2.40.00.10 /

- 按图示路径，选择out of box experience GUI
- 单击按钮Connect，连接到LaunchPad 开发套件



设置连接参数

- 设置串行COM 端口，
单击open



The image shows two side-by-side windows from the TI ecosystem. The left window is 'TI Resource Explorer' with a red header. It features a search bar and a tree view. The tree view is expanded to 'Software' > 'SimpleLink MSP432P4 SDK - v:2.40.00.10' > 'Examples' > 'Development Tools' > 'MSP432P401R LaunchPad - Red 2.x (Red)' > 'Demos' > 'outofbox_msp432p401r'. The 'Out of Box Experience GUI' is highlighted. The right window is the 'Out of Box Experience GUI' for the 'MSP-EXP432P401R Out Of Box Demo'. It has a dark theme and shows the 'Target Status: Serial Port Ready to be opened'. There is a 'Disconnect' button and a 'Connect to Serial Port' section with a dropdown menu set to 'COM35' and an 'Open' button.

TI Resource Explorer

Select a Device or Board

Device Documentation

Software

- SimpleLink CC13x0 SDK - v:2.40.00.20
- SimpleLink CC13x2 26x2 SDK - v:2.40.00.81
- SimpleLink CC13x2 SDK - v:2.30.00.45
- SimpleLink CC26X2 SDK - v:2.30.00.34
- SimpleLink CC2640R2 SDK - v:2.40.00.32
- SimpleLink CC2652RB SDK - v:3.10.00.15
- SimpleLink MSP432P4 SDK - v:2.40.00.10
 - Examples
 - Development Tools
 - MSP432P401R LaunchPad - Red 2.x (Red)
 - Demos
 - outofbox_msp432p401r
 - Out of Box Experience GUI

Out of Box Experience GUI

Out of Box Experience GUI

Help

MSP432 MCUs

Texas Instruments

Disconnect

MSP-EXP432P401R Out Of Box Demo

Target Status: Serial Port Ready to be opened

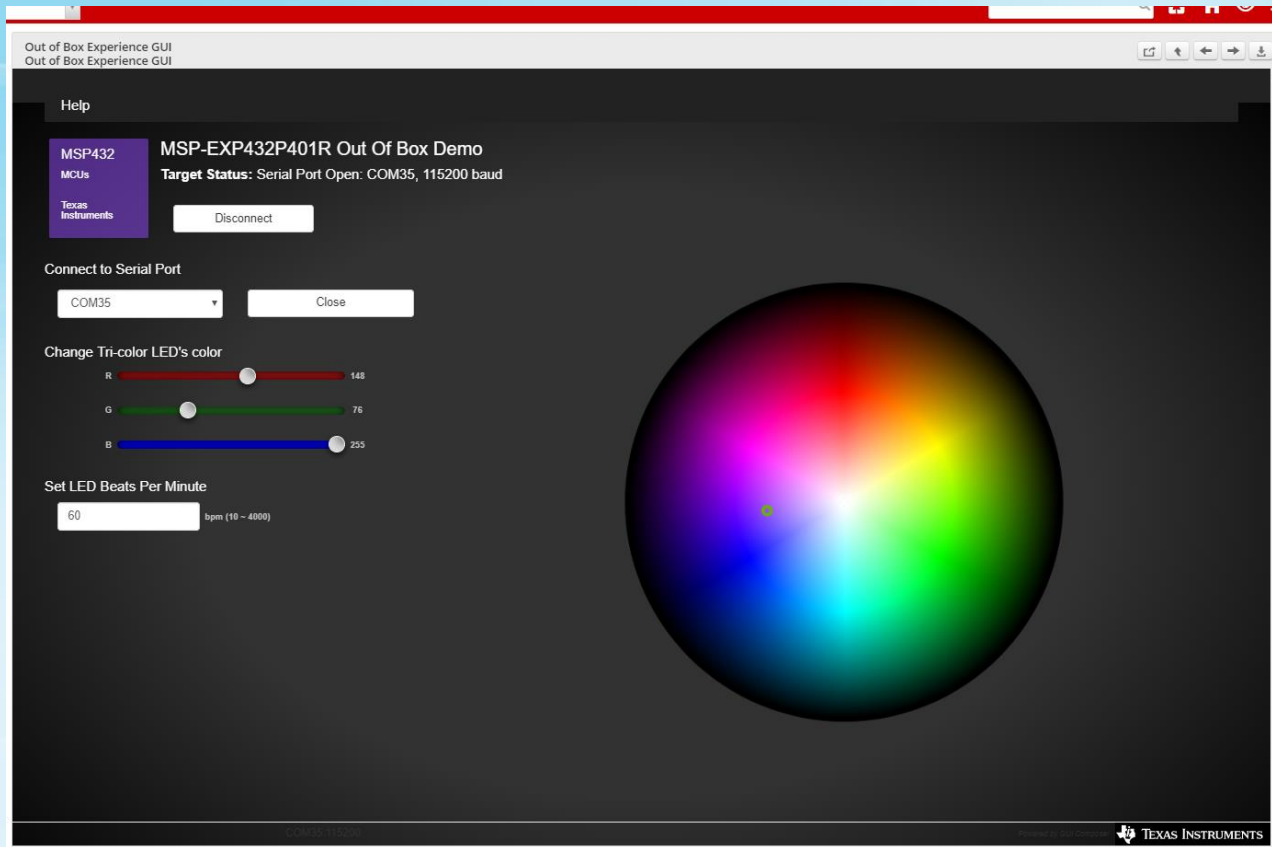
Connect to Serial Port

COM35

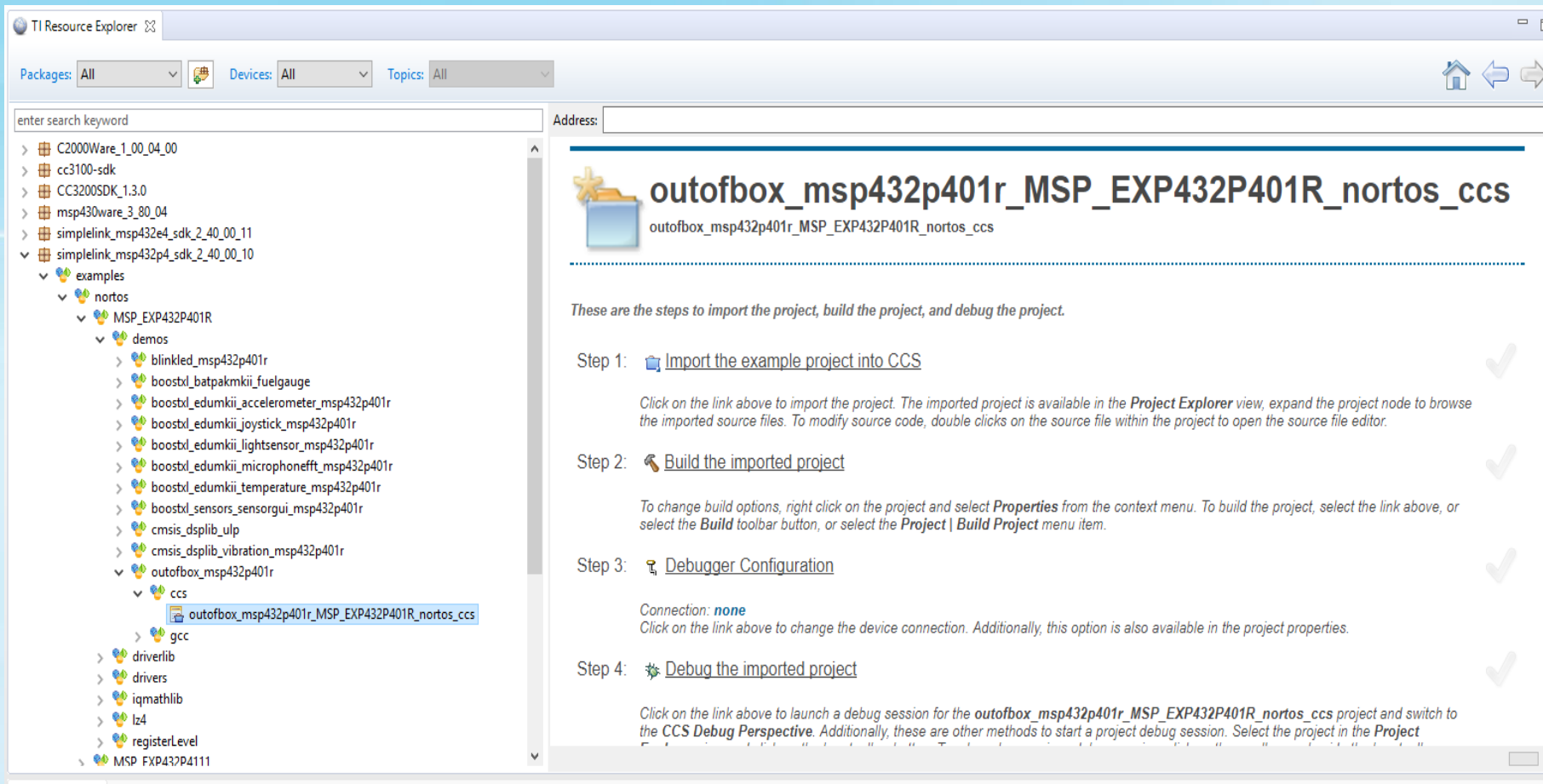
Open

实验操作

- 建立连接后，GUI 会指示“目标状态：正在运行...”(Target Status: Running...)
- 可以使用色轮或者红色、绿色和蓝色滑块来设置LaunchPad 开发套件 RGB LED 的颜色。
- 可通过更改设置LED 每分钟的节拍数 (Set LED Beats Per Minute) 输入框中的数字来设置RGB LED 的闪烁速率。



怎么恢复出厂设置（已经安装好SDK）



The screenshot shows the TI Resource Explorer interface. On the left, the 'Packages' pane is expanded to show the 'examples' folder, then 'nortos', then 'MSP_EXP432P401R', and finally 'demos'. The 'outofbox_msp432p401r' folder is selected, and its sub-folder 'ccs' is also selected. The main pane on the right displays the project name 'outofbox_msp432p401r_MSP_EXP432P401R_nortos_ccs' and provides a list of steps to import, build, and debug the project.

TI Resource Explorer

Packages: All Devices: All Topics: All

enter search keyword

Address:

outofbox_msp432p401r_MSP_EXP432P401R_nortos_ccs

outofbox_msp432p401r_MSP_EXP432P401R_nortos_ccs

These are the steps to import the project, build the project, and debug the project.

Step 1: [Import the example project into CCS](#)

Click on the link above to import the project. The imported project is available in the **Project Explorer** view, expand the project node to browse the imported source files. To modify source code, double clicks on the source file within the project to open the source file editor.

Step 2: [Build the imported project](#)

To change build options, right click on the project and select **Properties** from the context menu. To build the project, select the link above, or select the **Build** toolbar button, or select the **Project | Build Project** menu item.

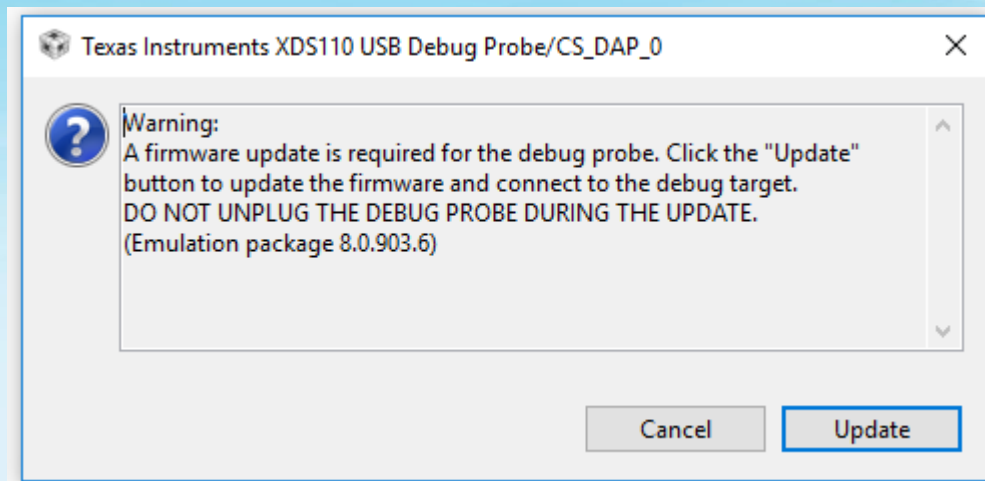
Step 3: [Debugger Configuration](#)

Connection: **none**
Click on the link above to change the device connection. Additionally, this option is also available in the project properties.

Step 4: [Debug the imported project](#)

Click on the link above to launch a debug session for the **outofbox_msp432p401r_MSP_EXP432P401R_nortos_ccs** project and switch to the **CCS Debug Perspective**. Additionally, these are other methods to start a project debug session: Select the project in the **Project**

下载程序时弹出调试器的固件更新提醒



谢谢

问题反馈交流： xie_sx@126.com



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