Bluetooth 5.0 Low Energy Module

Introduction

This user guide is for BDE-BLEM205-IN, a Bluetooth 5.0 Low Energy Module based on TI Bluetooth 5.0 Low Energy SoC CC2642R. BDE-BLEM205-IN is built to meet your low cost and ultra-low power consumption needs. It explains how to run the BDE-BLEM205-IN on the launchpad of TI. Like the connection between the BDE-BLEM205-IN and the launchpad, and the steps about running the example.

Get Ready

The following tools are recommended to develop with BDE-BLEM205-IN.

Hardware tools:

- PC or Laptop
- EVB07 or Launchpad of TI
- USB cable for power supply and debugging

Software tools:

- Terminal software such as CCS, IAR.
- CCS download
- Software Development Kit (SDK)

Build Your First Application

Once you have the Hardware and Software tools in place, please following the following steps:
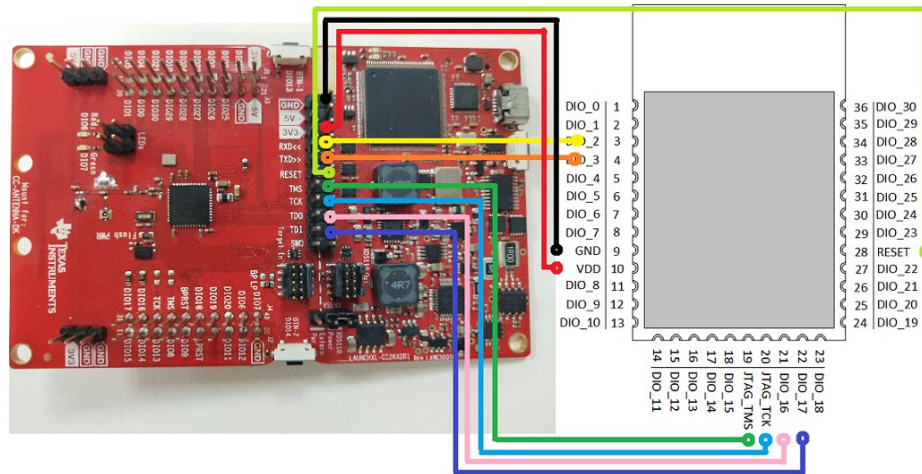
- Connect the Hardware

If you chose EVB07 as launchpad:

You need to use USB cable to connect EVB07 and PC or laptop. As for the BDE-BLEM205-IN, just put it into the launchpad and connect the pin with Jumpers.

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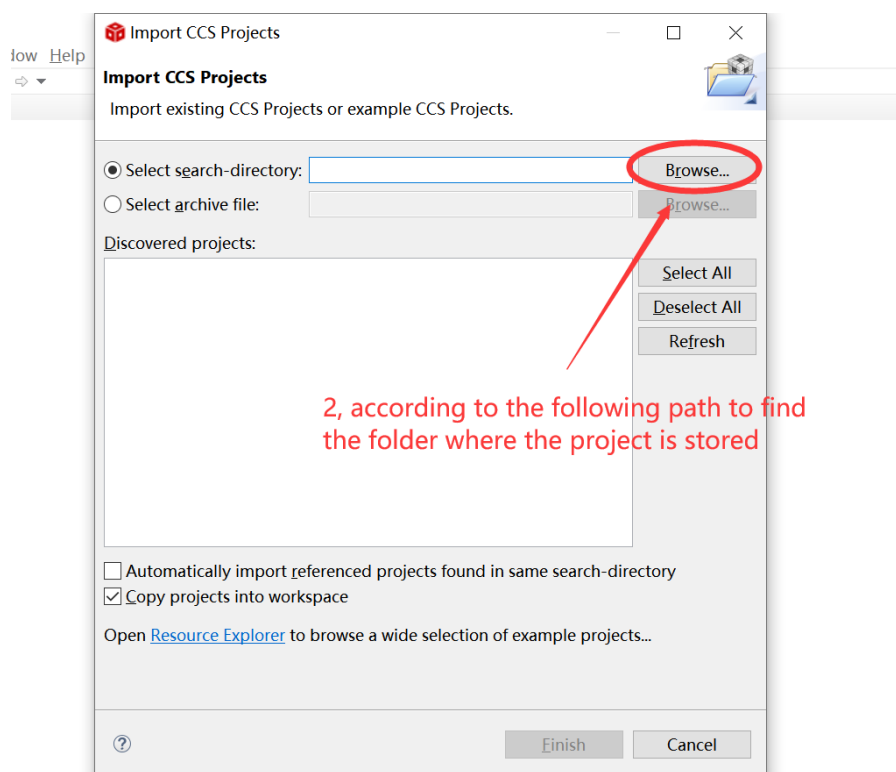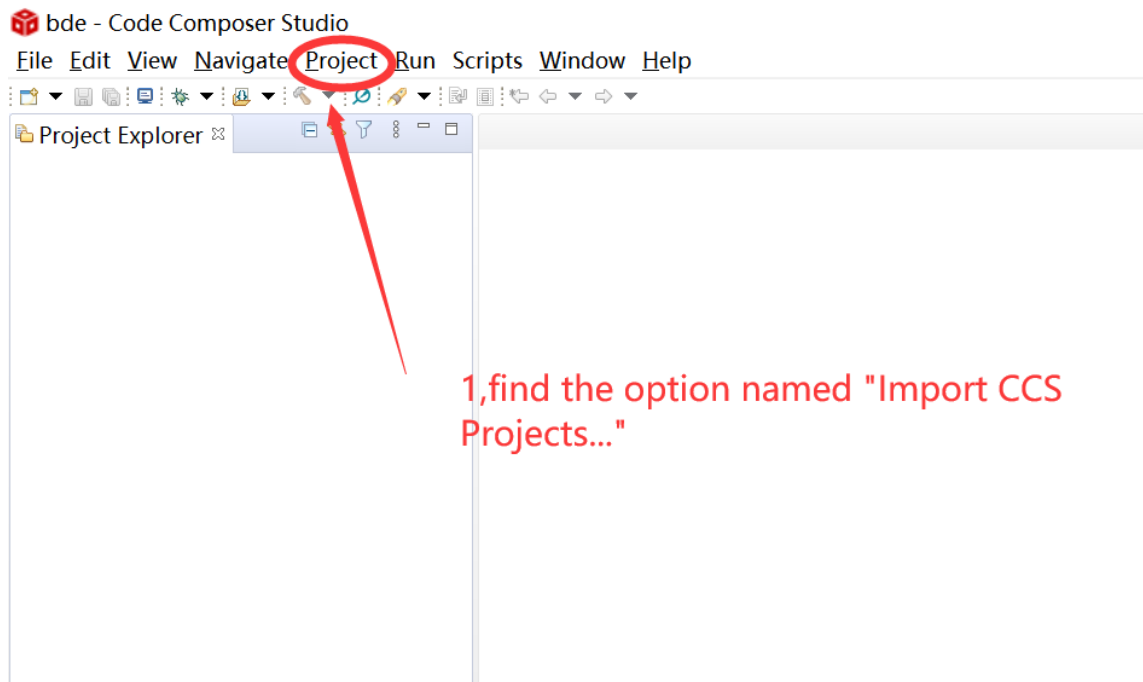
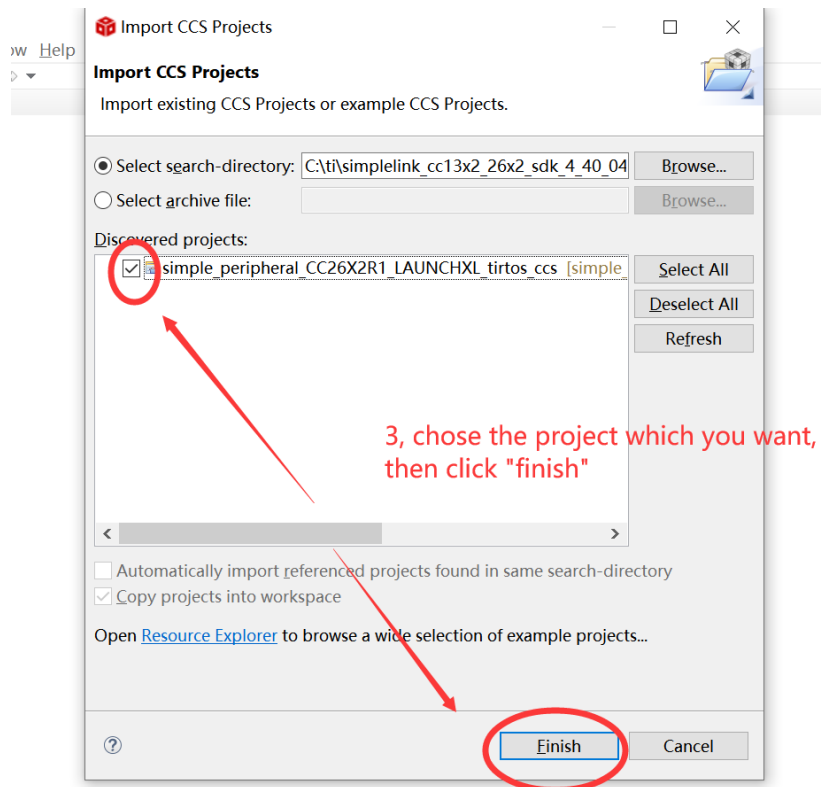If you chose launchpad of TI:

The connection guide as follows.

Connection Designator	BDE-BLEM205-IN	LaunchPad Pin
3V3 Power	VDD	3V3
Ground	GND	GND
RST	RST	RESET
TMS	TMS	TMS
TCK	TCK	TCK
TDO	DIO16	TDO
TDI	DIO17	TDI
RXD	DIO2	RXD
TXD	DIO3	TXD

Optional: TDO，TDI，RXD，TXD

- Build the first Application

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1,find the option named "Import CCS Projects..."

2, according to the following path to find the folder where the project is stored
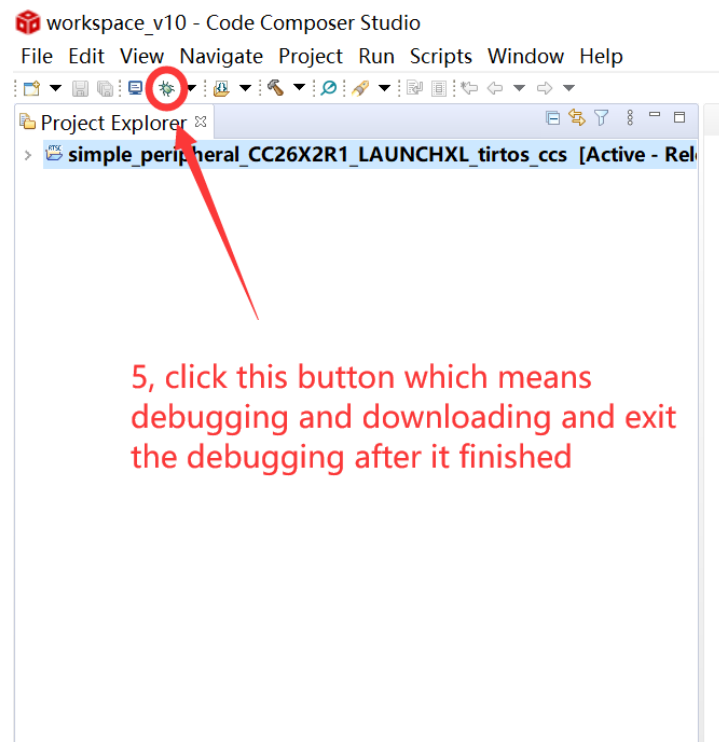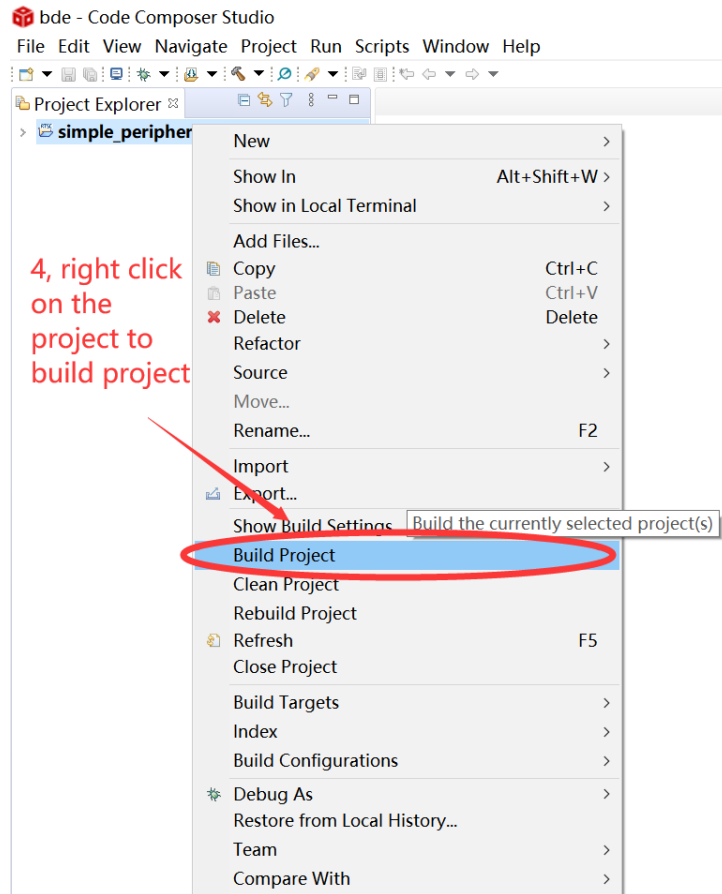
According to the follow path to find the project:
ti\simplelink_cc13x2_26x2_sdk_4_40_04_04\examples\rtos\CC26X2R1_LAUNCHXL\ble5s tack\simple_peripheral\tirtos\ccs

3, chose the project which you want, then click "finish"

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4, right click on the project to build project

5, click this button which means debugging and downloading and exit the debugging after it finished

- After the above steps, you can run the program on BDE-BLEM205-IN.
- You could also follow the following links to build the first application.

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CC13x2, CC26x2 SimpleLink™ Wireless MCU Technical Reference Manual (Rev. D)

Other Resources

Mac OS Installer for SimpleLink CC13X2 26X2 SDK

Linux Installer for SimpleLink CC13X2 26X2 SDK

Mac OS Installer for Code Composer Studio IDE

Linux Installer for Code Composer Studio IDE

CC2642R SimpleLink™ Bluetooth® 5.0 Low Energy Wireless MCU

Windows Installer for SmartRF Flash Programmer 2

More Questions:

Please Contact your local TI sales representative.
Or Contact
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