

BDE-WF3235SX/SFX USER GUIDE

Introduction

This user guide is for BDE-WF3235SX and BDE-WF3235SFX, wireless modules based on TI CC3235S and CC3235SF.

It is a quick start guide for how to use the BDE-WF3235SX and BDE-WF3235SFX with the SimpleLink™ CC3235 Launchpad™ Development Kit, and how to build the first application. It also shows a demo for how to send commands to control the BDE-WF3235SX and BDE-WF3235SFX module by UART.

Get Ready

The following tools are recommended to develop with BDE-WF3235SX/SFX.

Hardware tools:

- A BDE-WF3235SX or BDE-WF3235SFX([BDE-WF3235SX/SFX-BDE Technology Inc.\(bdecomm.com\)](http://www.bdecomm.com))
- A adaptor board
- PC or Laptop
- the SimpleLink™ CC3235 Launchpad™ Development Kit
- USB cable for power supply and debugging

Software tools:

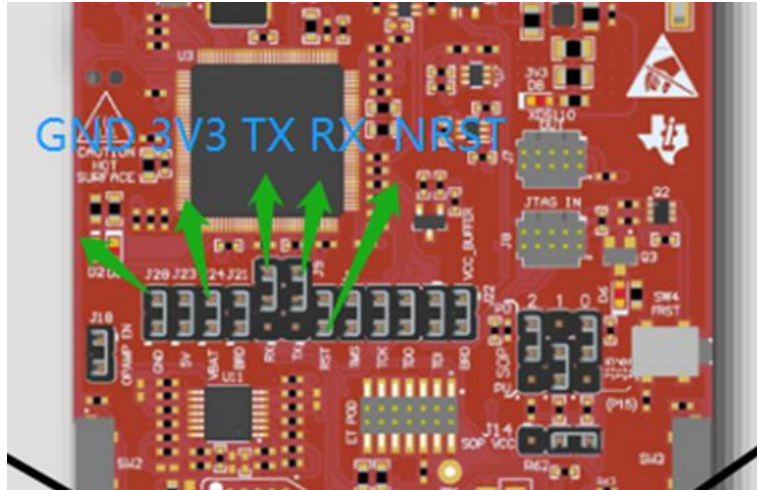
- [CCS](#)
- Uart Assistant
- [Uniflash](#)
- Service Pack
(path:ti\simplelink_cc32xx_sdk_5_30_00_08\tools\cc32xx_tools\servicepack-cc3x35)
- Software Development Kit (SDK):
 - [simplelink_cc32xx_sdk](#)

Build Your First Application

Once have the Hardware and Software tools in place, please follow the following steps:

A. Connect the Hardware

- Connect the 3135 module and the LaunchPad with jumpers as the following shows.



WF-3235SX/SFX	LAUNCHXL-CC3235SF
3V3	J24(3V3)
GND	J28(GND)
TX1	RX
RX1	TX
NRST	RST
TMS	TMS
TCK	TCK
TDI	TDO
TDO	TDI

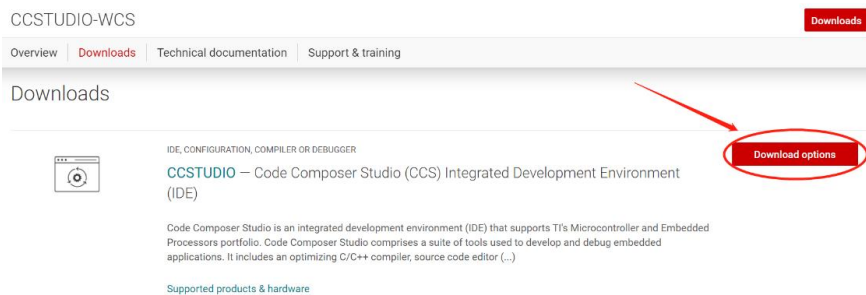
B. Build the Application

- Download and install the CCS and SDK

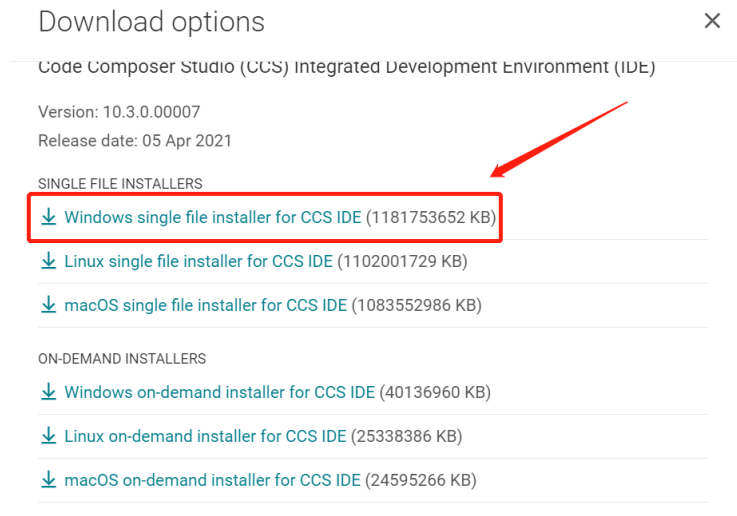
From the above links, follow the instructions in the following steps to download and install the CCS and SDK. Some versions will be prompted with a mismatch. If this occurs, please download CCS11.1.0.

- CCS Installation

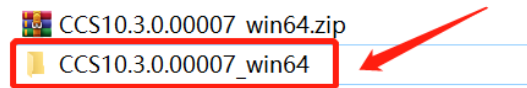
- Click on this option



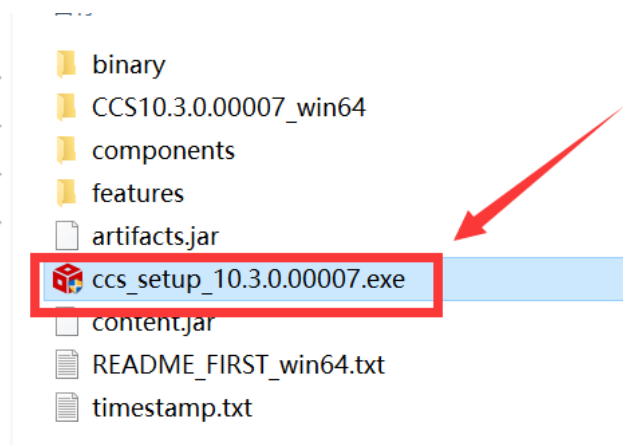
2. Select an option to download CCS



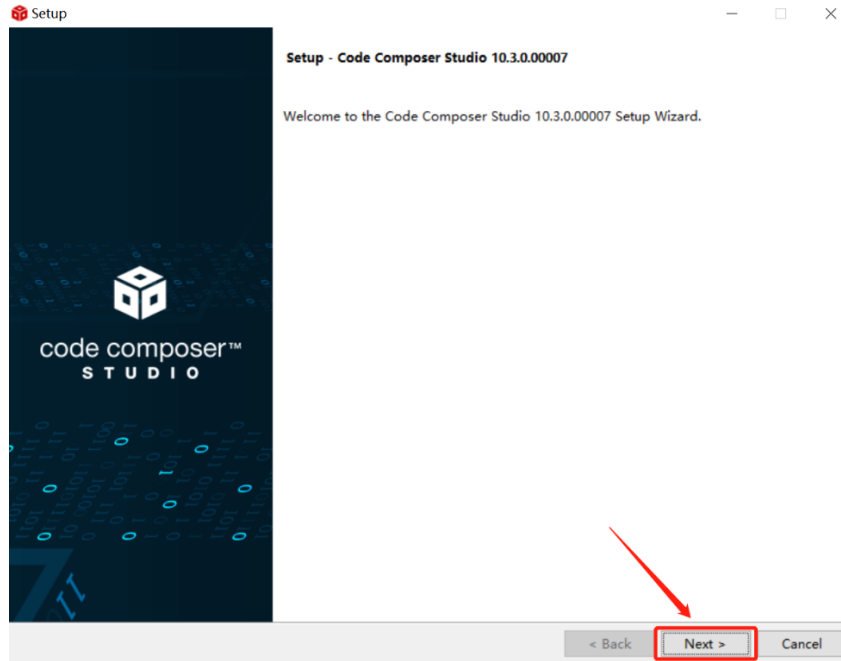
3. Unzip the package to a local disc



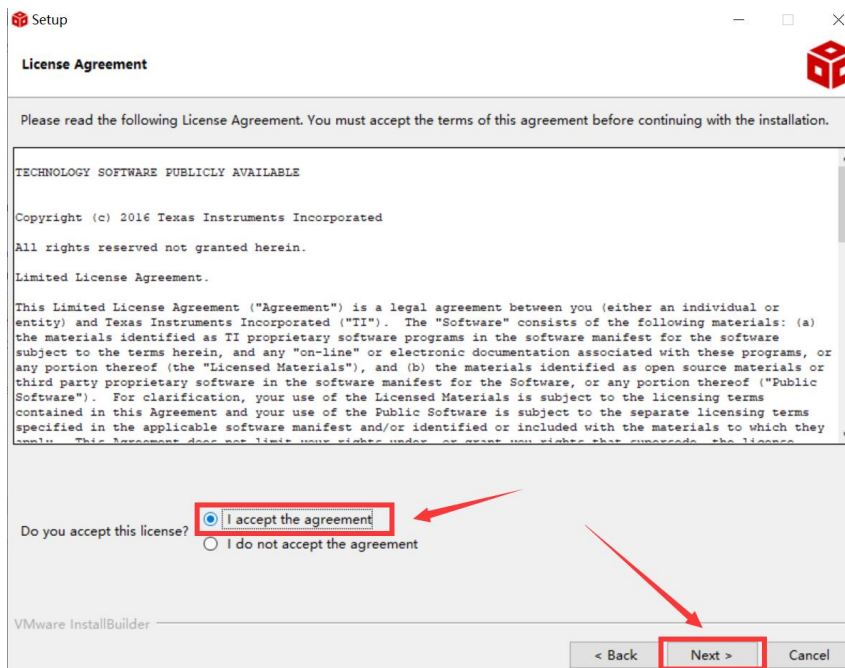
4. Click the setup of CCS



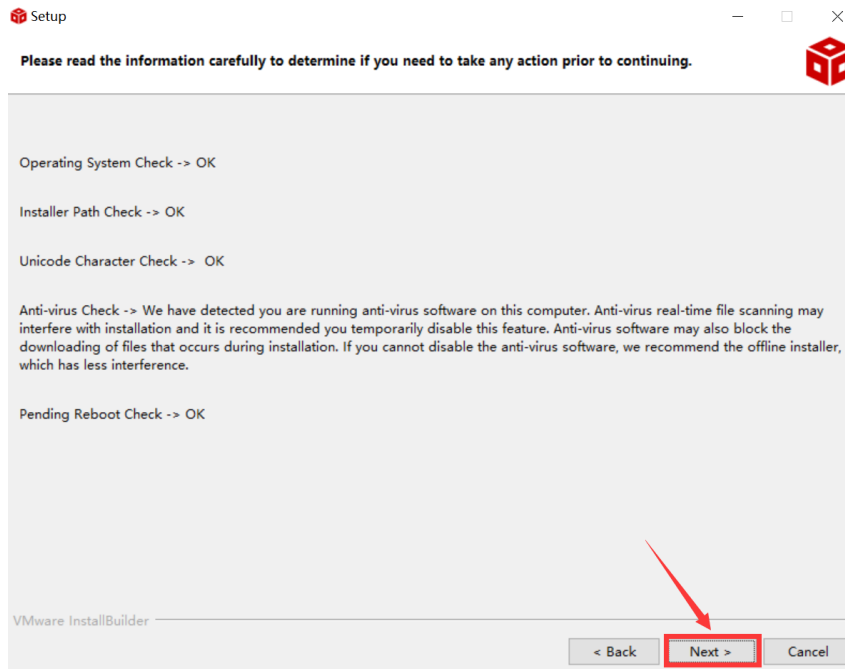
5. Click "Next"



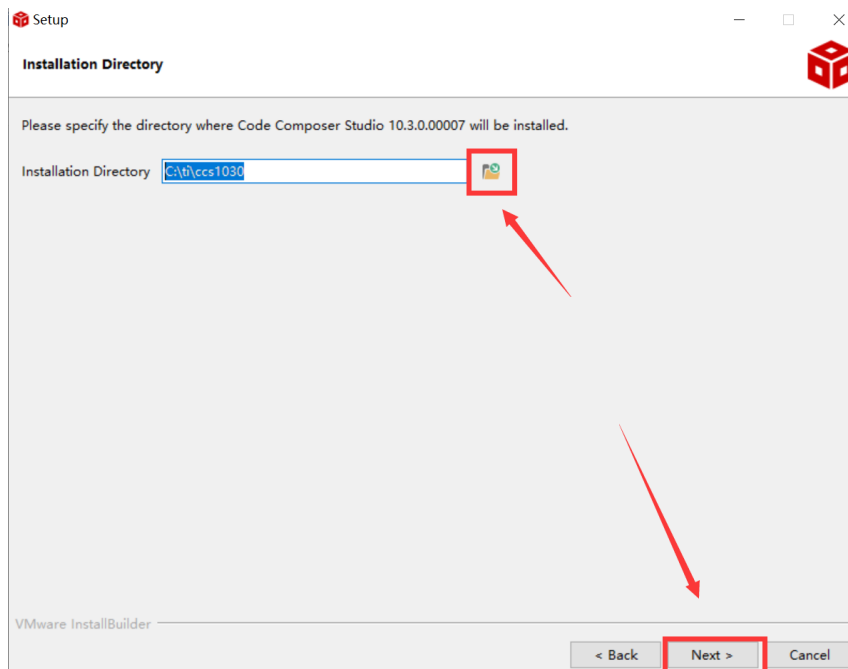
6. Select the default option



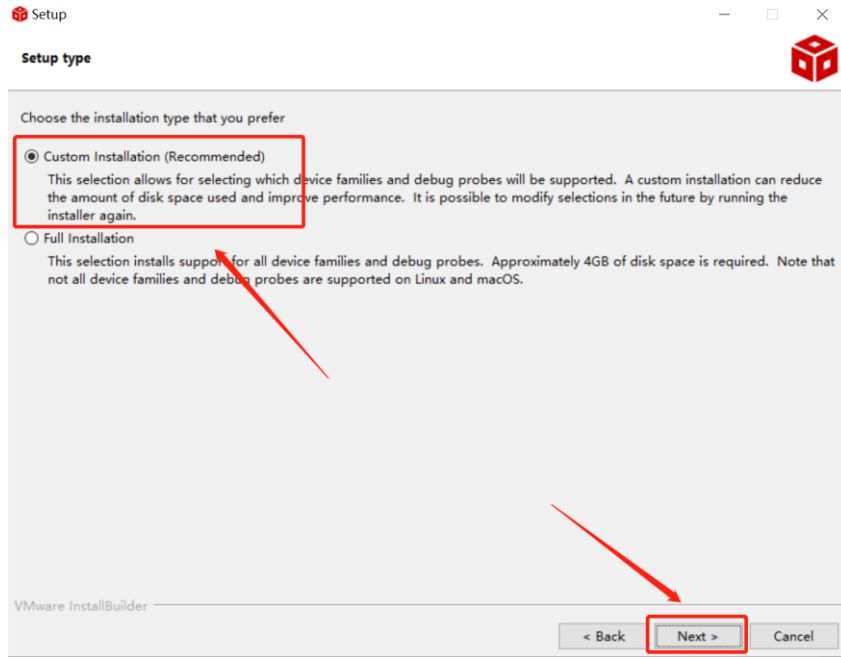
7. Click "Next"



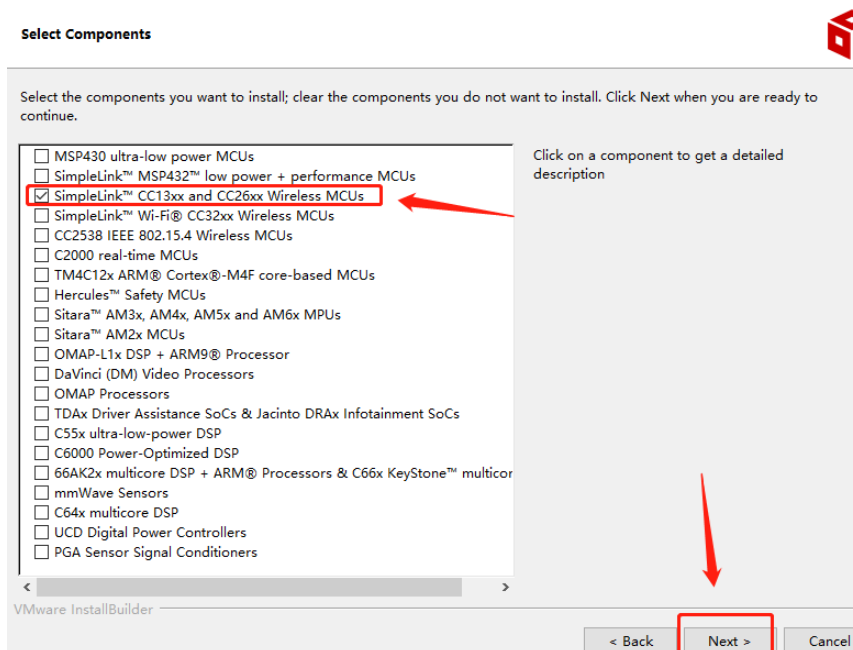
8. Select the Installation Directory



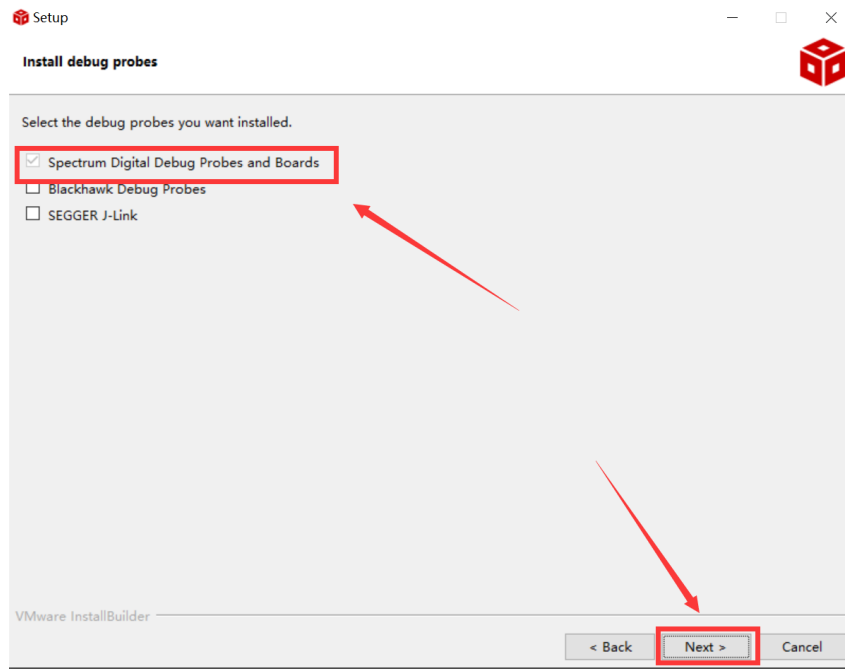
9. Select the default option



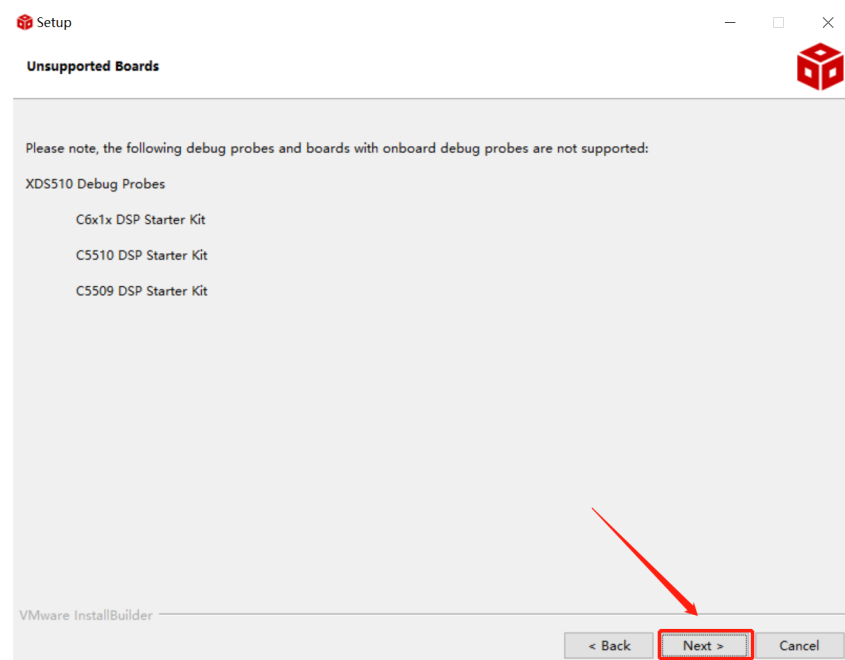
10. Select the component



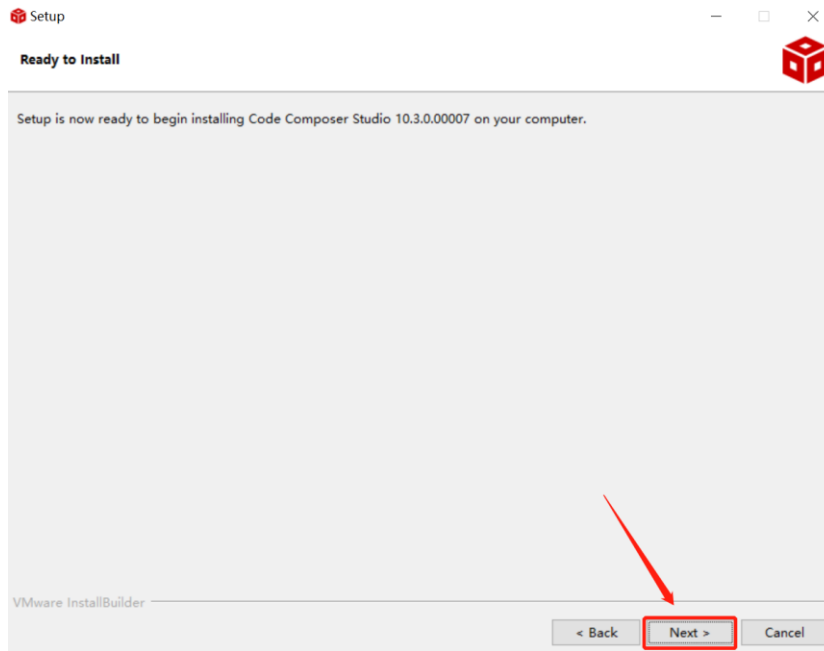
11. Select the default option



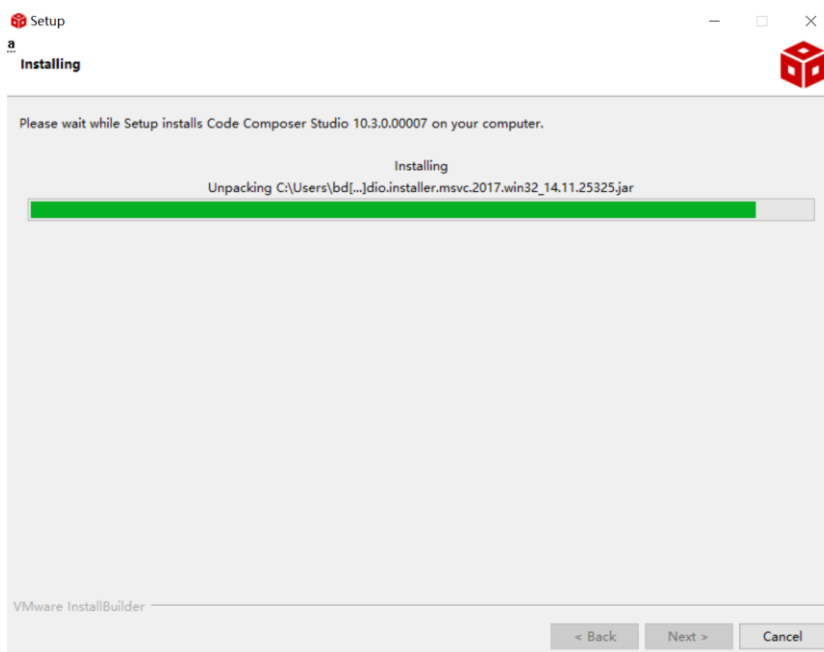
12. Click "Next"



13. Click "Next"



14. Waiting for installation to complete



- **Software Development Kit (SDK) installation**
 - simplelink_cc32xx_sdk_5_30_00_08
 1. Click on this option


CC3235SF ACTIVE Data sheet Order now

Product details | Technical documentation | **Design & development** | Ordering & quality | Support & training

Design & development

For additional terms or required resources, click any title below to view the detail page where available.

All | Hardware development | **Software development** | Design tools & simulation | Reference designs | CAD/CAE symbols



SOFTWARE DEVELOPMENT KIT (SDK)
SIMPLELINK-CC32XX-SDK – SimpleLink™ Wi-Fi® CC32xx software development kit (SDK)
Step 1: Buy the LaunchPad
Step 2: Download the CC32xx SDK
Step 3: Get started with SimpleLink Academy

The SimpleLink™ Wi-Fi® CC32XX SDK contains drivers for the CC3220 and CC3235 programmable MCU and documentation needed to use the solution. It also contains the flash (...)

Evaluate in the cloud
Download options

2. Select an option you need to download SDK

Download options

SIMPLELINK-CC32XX-SDK – SimpleLink™ v

Latest version Version: 6.10.00.05 Release date: 01 Apr 2022

[Release notes](#) [View all versions](#)



Downloads Supported products & hardware

 [Windows Installer for SimpleLink CC32XX SDK](#) – 391160 K

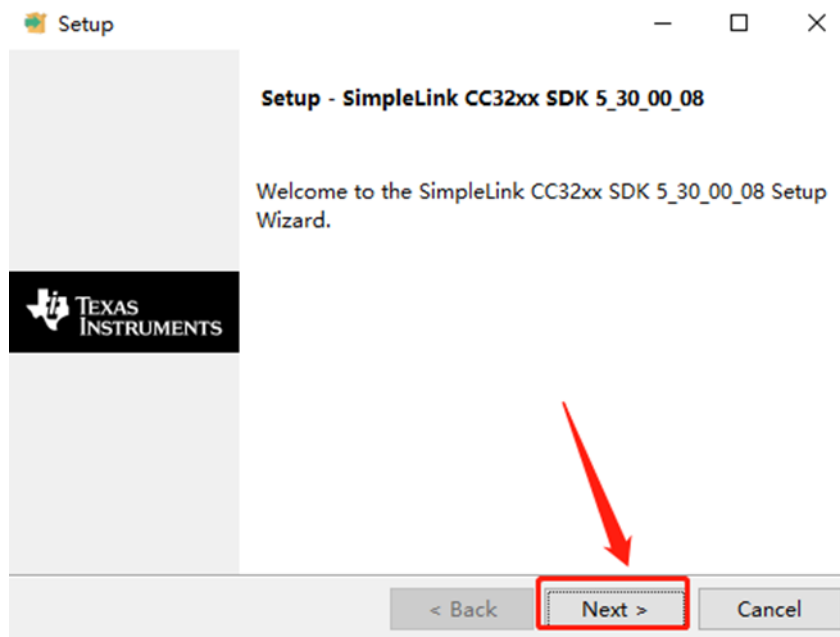
 [macOS Installer for SimpleLink CC32XX SDK](#) – 380910 K

 [Linux Installer for SimpleLink CC32XX SDK](#) – 358329 K

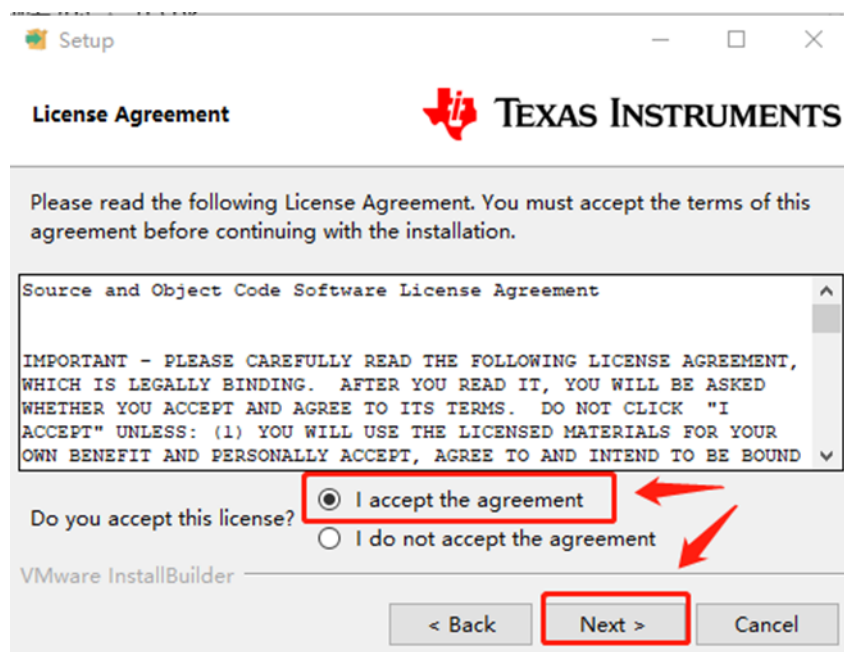
3. Installation

 simplelink_cc32xx_sdk_5_20_00_06	2
 simplelink_cc32xx_sdk_5_30_00_08	2

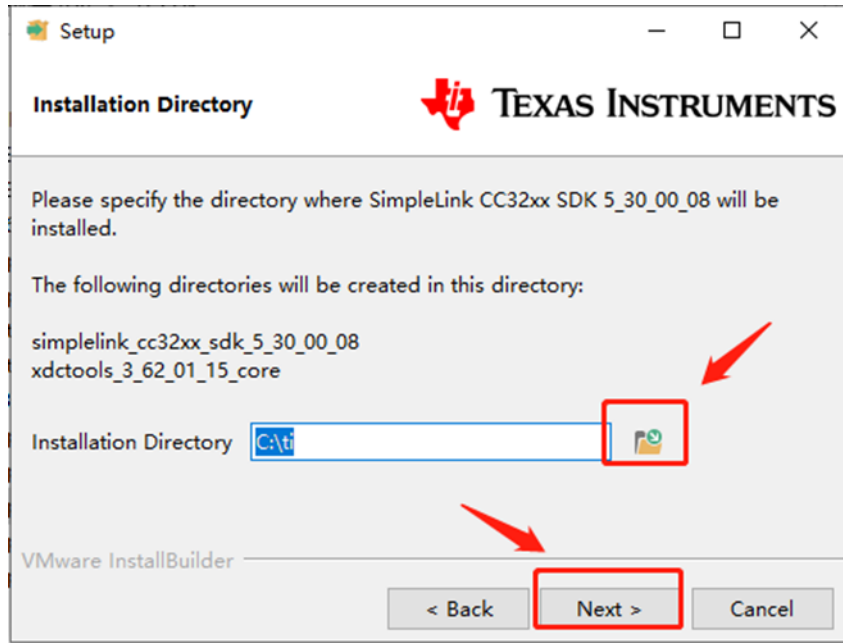
4. Click “Next”



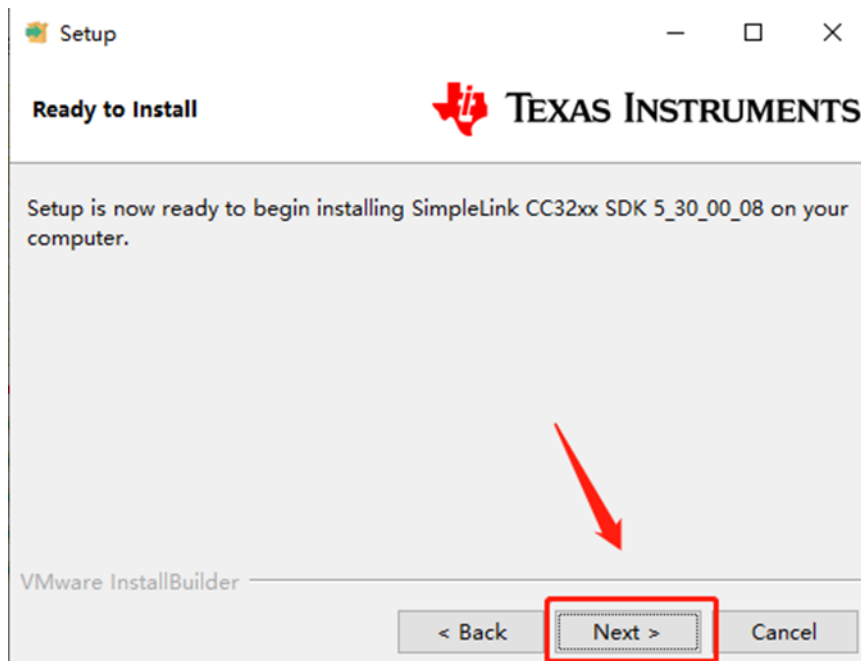
5. Select the default option



6. Select the Installation directory



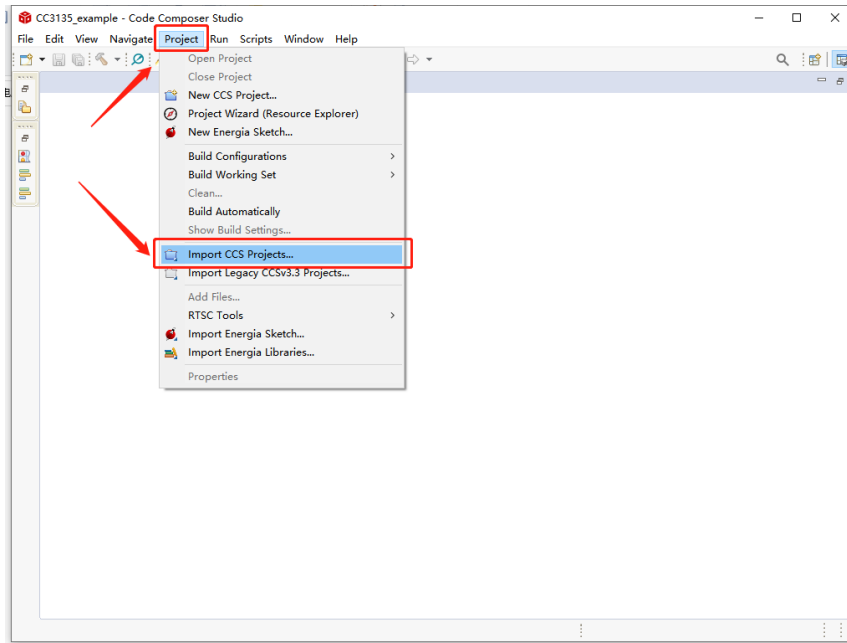
7. Click "Next"



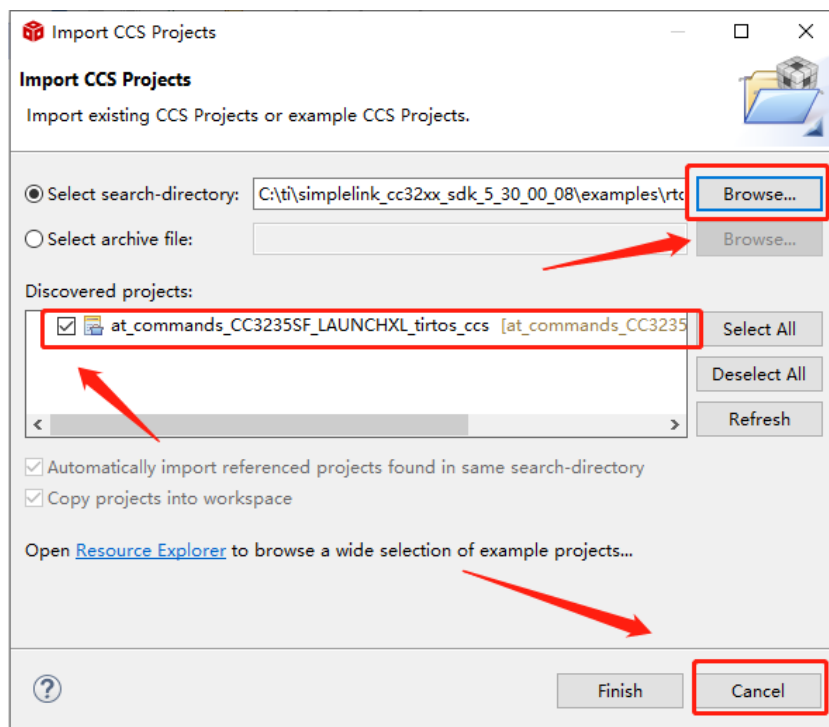
8. Waiting for installation to complete

- Run an example/demo code

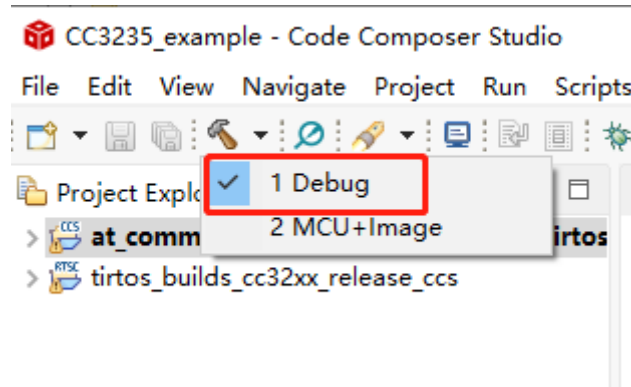
1. For the first module, find the option named "Import CCS project..."



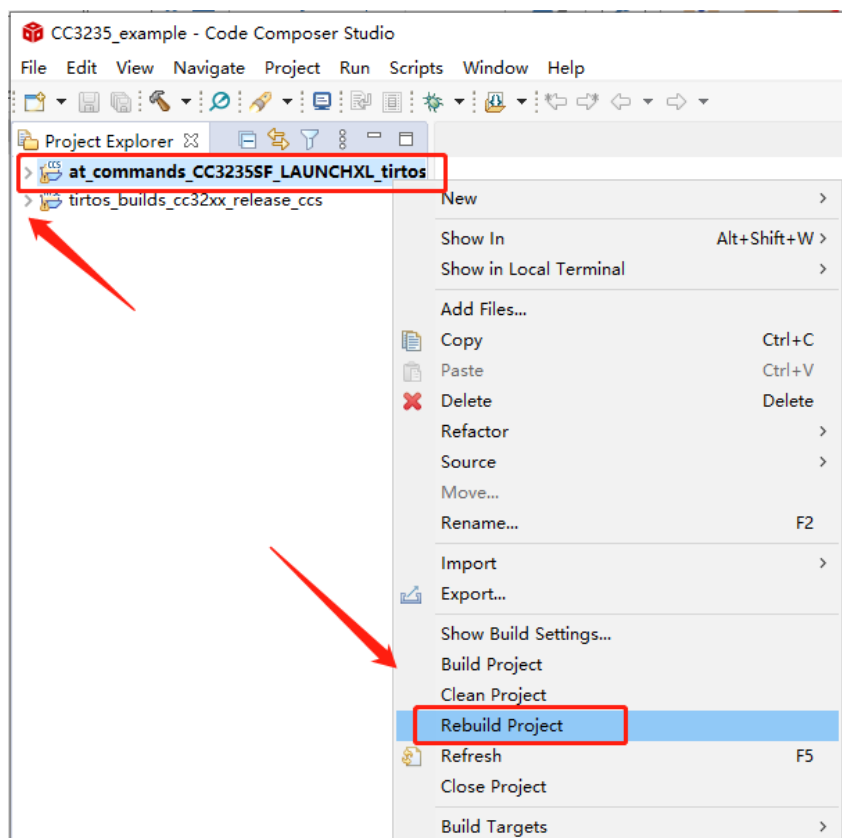
2. According to the following path to find the sending end project:
ti\simplelink_cc32xx_sdk_5_30_00_08\examples\rtos\CC3235SF_LAUNCHXL\demos\at_commands\tirtos\ccs



3. Switch to the debug mode



4. Right Click the project to build the receiving end project

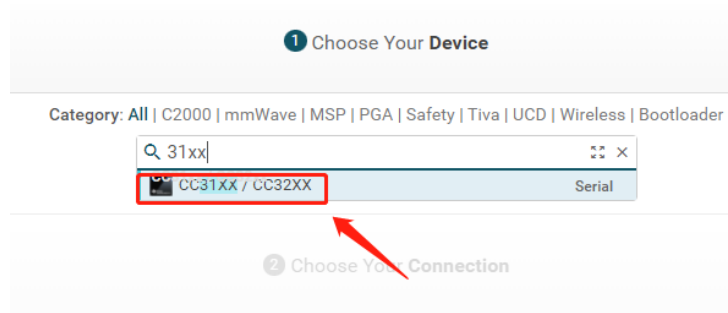


5. Follow the following path to find the firmware:
workplace\at_commands_CC3235SF_LAUNCHXL_tirtos_ccs\Debug

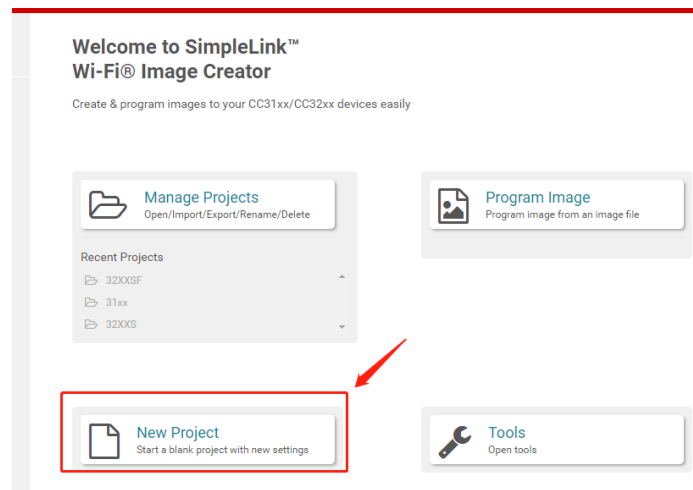
名称	修改日期
syscfg	2022/8/1 14:57
at_commands.d	2022/8/1 14:57
at_commands	2022/8/1 14:57
at_commands_CC3235SF_LAUNCHXL_...	2022/8/1 14:57
at_commands_CC3235SF_LAUNCHXL_...	2022/8/1 14:57
at_commands_CC3235SF_LAUNCHXL_...	2022/8/1 14:57
at_commands_CC3235SF_LAUNCHXL_...	2022/8/1 14:57

6. Download the firmware to the module using Uniflash

- ◆ Choose the device



- ◆ Build a new project



- ◆ Choose the device type and switch to the development mode if you want enter the debug mode, or choosing the production if it just for producing.

Start new project

Project Name

Project Description

Device Type

Device Mode

Version: 1.0.22.5b

- ◆ Change the Start Role and upload the MCU Img and the Service Pack. Then click the “connect”.

Simple View

Device status
Connected: Off

1. Start Role

2. MCU Img

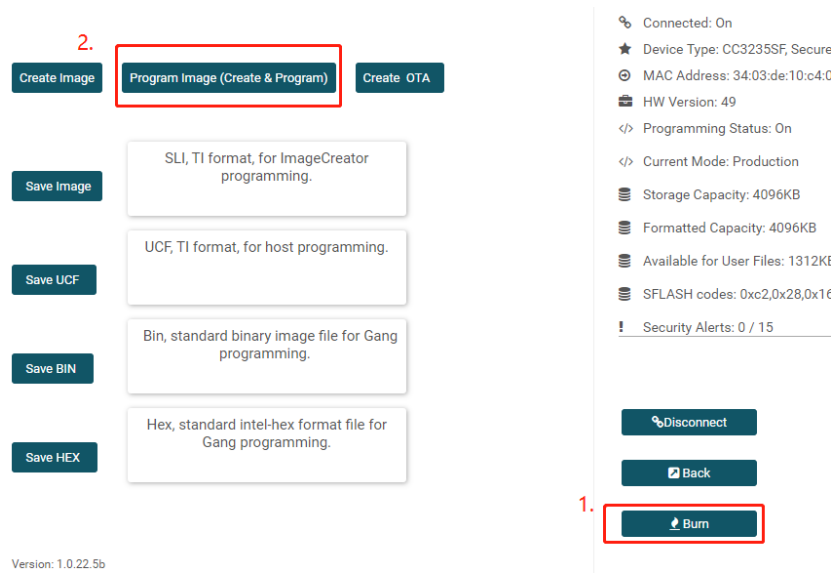
3. Service Pack File Name

4.

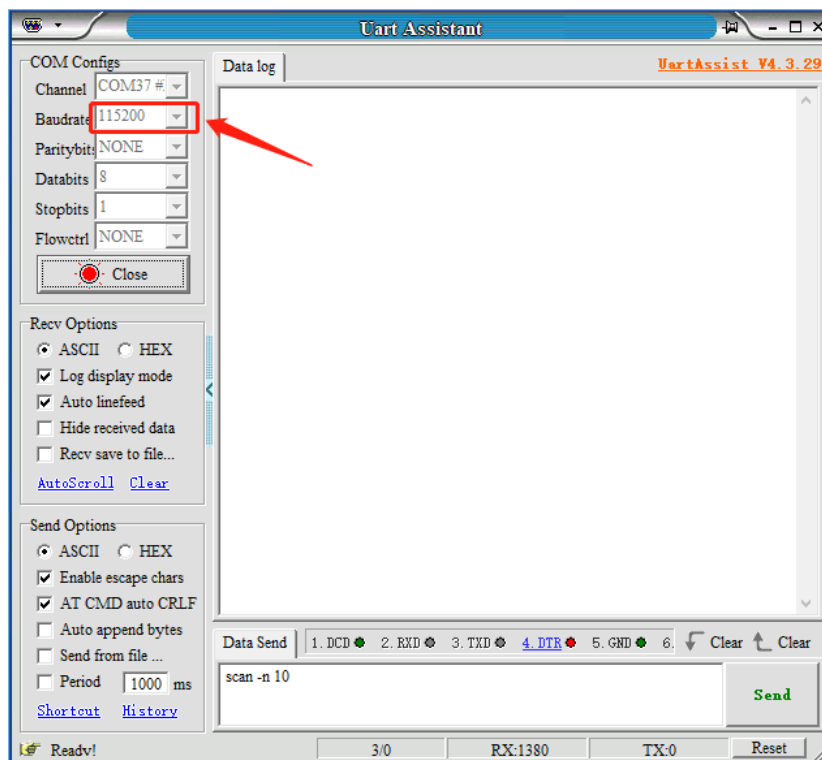
Version: 1.0.22.5b
All rights reserved to Texas Instruments inc (c) - For more information go to our [Help Pages](#)

- ◆ When connect successfully, download the firmware to the

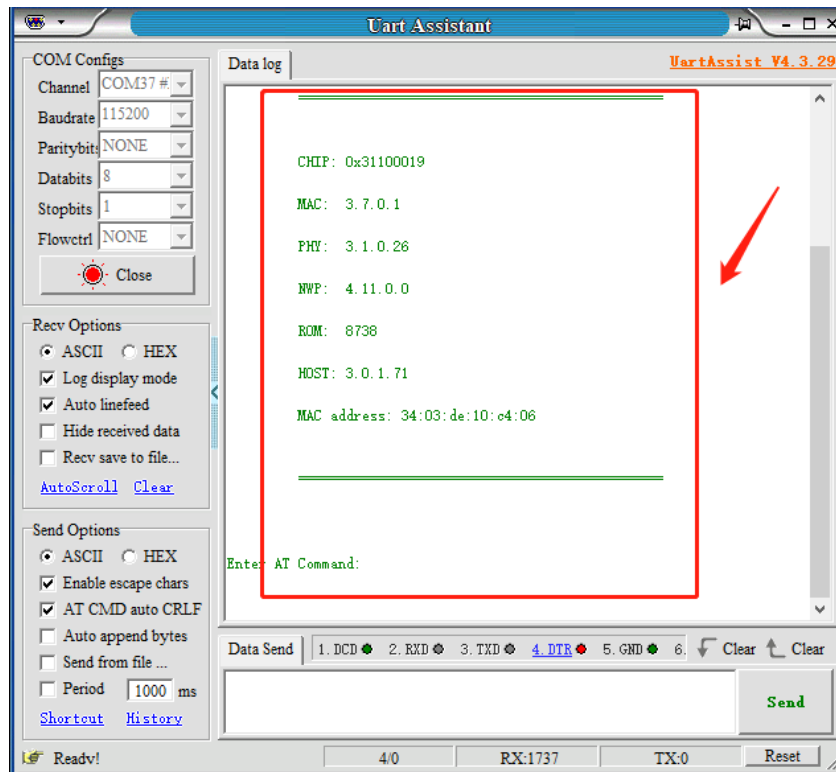
device.



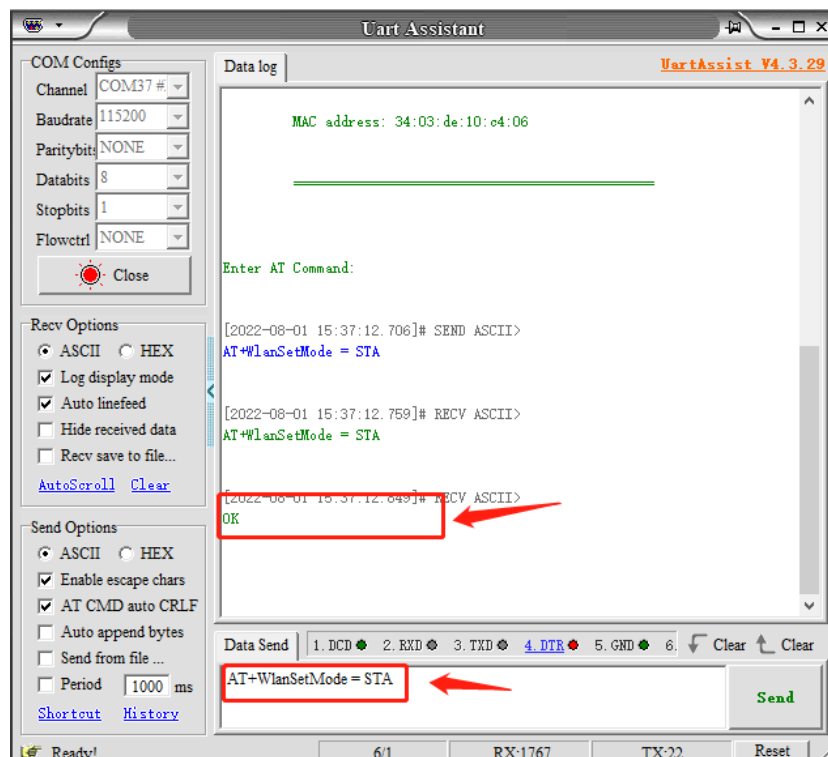
7. Open the Uart Assistant, set the options



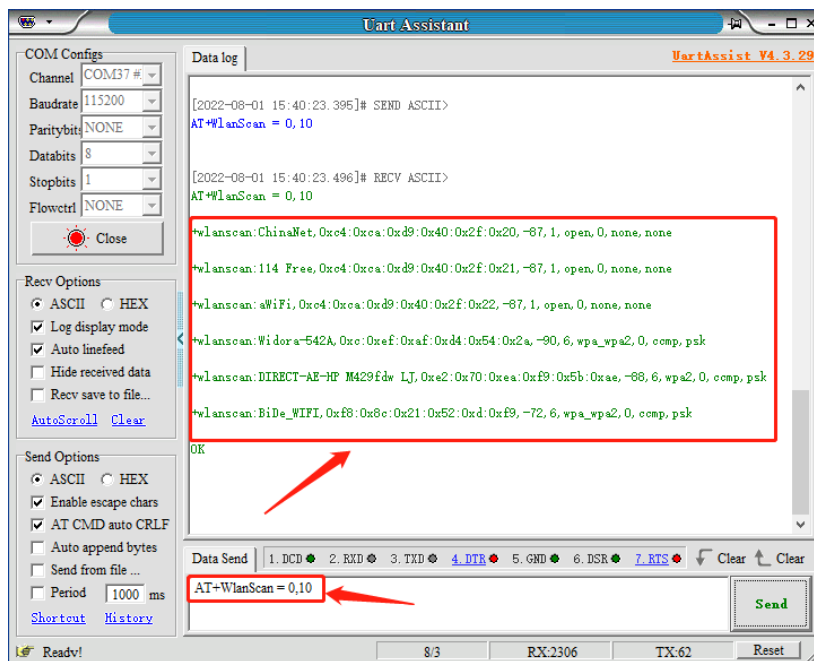
8. Reset the device, the Uart Assistant will receive the Initialization Information as the following shows.



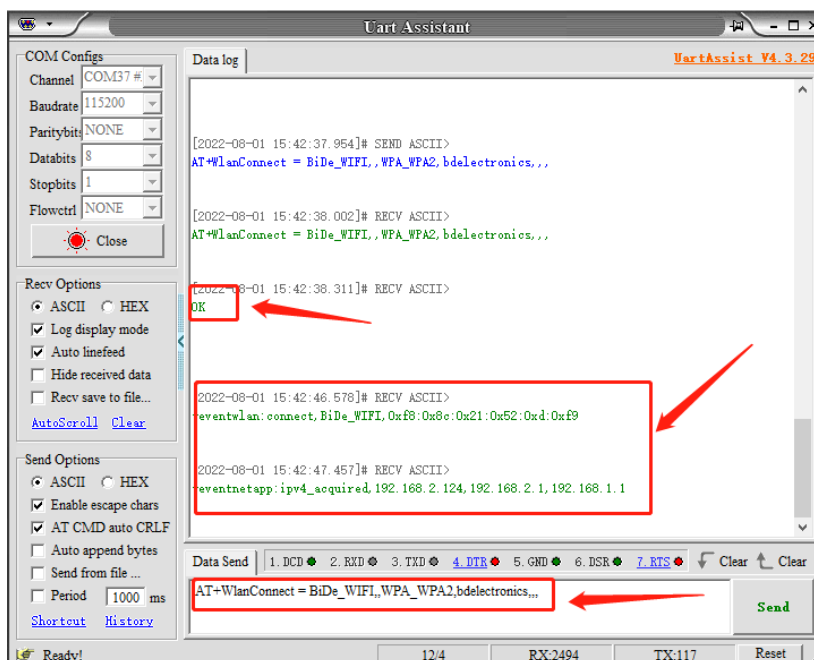
9. Send the command (AT+WlanSetMode = STA) to change the device to the station mode.



10. Send the command (AT+WlanScan = 0,10) to get the AP that can be connected



- Find the AP which you want to connect, send the command (AT+WlanConnect = AP_Name,,WPA_WPA2,password,,)



- When you receive this message, you have successfully connected to this AP. You can also follow the Initialization Information to send other commands to control it.

For further development, please check out the [CC3235S and CC3235SF SimpleLink™ Wi-Fi®, Dual-Band, Single-Chip Solution](#) and [SimpleLink™ Wi-Fi® AT Command User's Guide](#).

Other Resources

[macOS Installer for SimpleLink CC32XX SDK](#)

[Linux Installer for SimpleLink CC32XX SDK](#)

[Mac OS Installer for Code Composer Studio IDE](#)

[Linux Installer for Code Composer Studio IDE](#)

Revision History

Revision	Date	Description
V1.0	29-Jul-2022	Initial Released

More Questions:

Please search existing answers on [TI E2E support forums](#)

Contact your local TI sales representative.

Or

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