## **MDK Arm**

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KEIL 5 Add SysConfig tool

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MDK Arm (Microcontroller Development Kit for ARM): An integrated development environment (IDE) for microcontroller applications based on Cortex™-M, Cortex-R4, ARM7™ and ARM9™ processors.

The installation package path and the software installation path should not contain Chinese characters. Please install the installation package in a full English path

## 1. MDK-ARM installation

To build the TI development environment, you need to use Keil MDK-Arm uVision v5.38a or higher!

Since MDK-ARM is a paid software, the tutorial only covers the MDK-ARM installation process

Open MDK\_541.exe as an administrator and install according to the prompts:

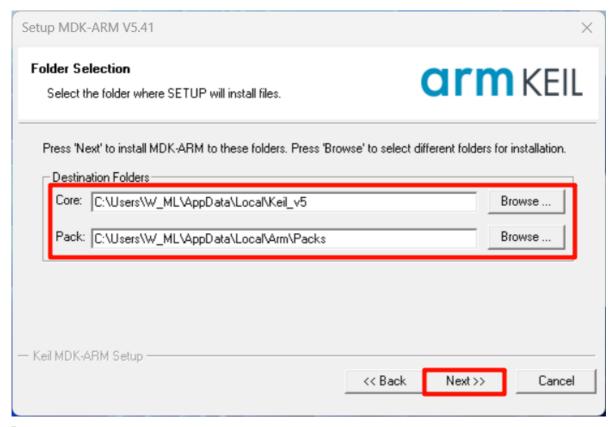


#### Agree to the agreement



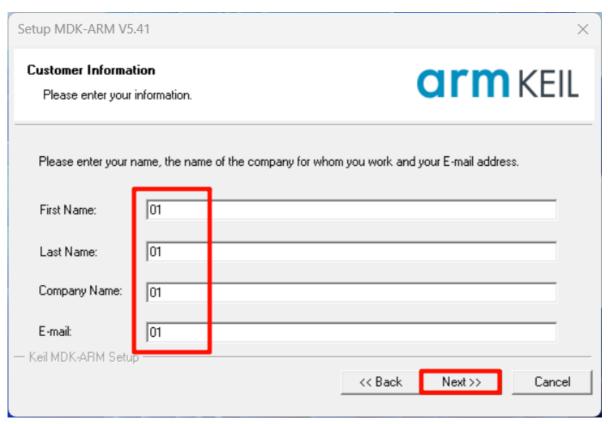
**Installation location** 

The recommended default location for the software:



#### **User Information**

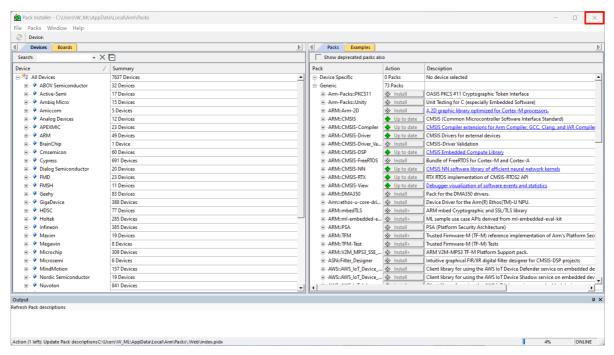
You can fill in as you like:



If the driver installation pops up during the installation process, select Install All:



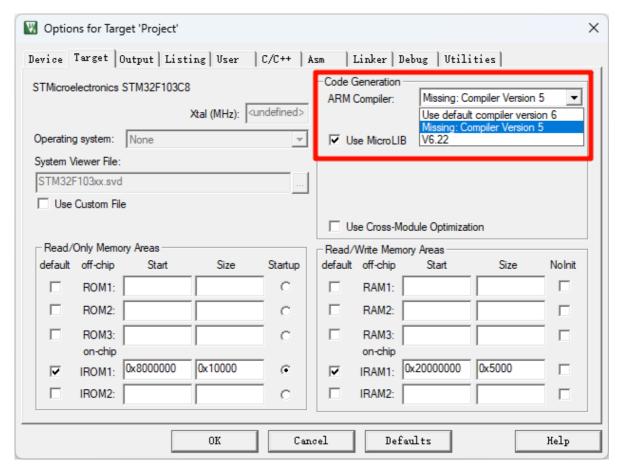
You need to close the software package/component interface for the first time: This interface can install chip packages, but it requires a network connection!



### **ARM Compiler 5 (AC 5)**

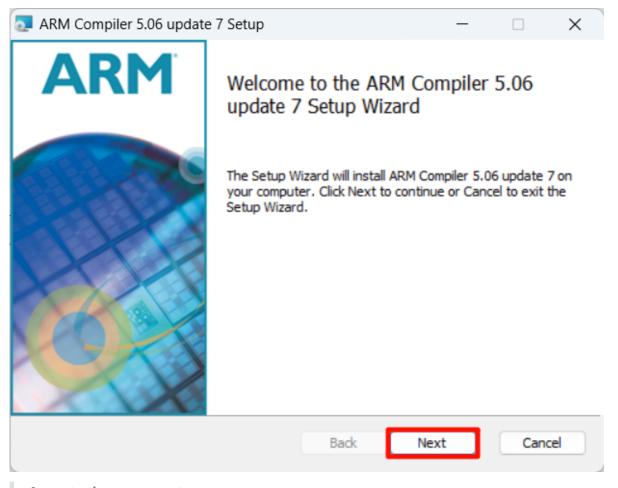
Starting from MDK5.37, the AC5 compiler is no longer installed by default and needs to be installed independently!

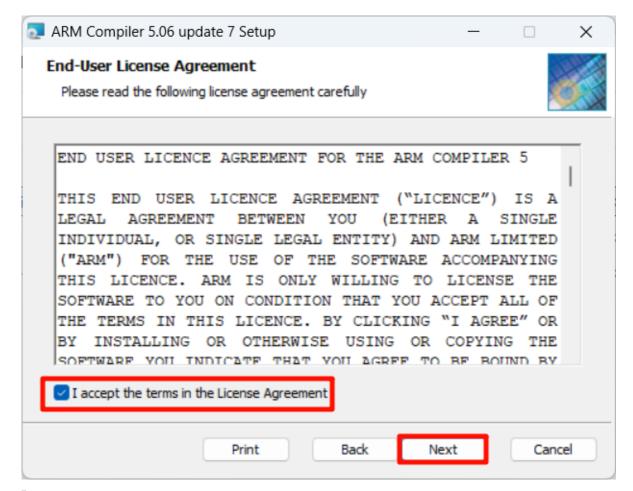
To compile with the old version of the project source code, you need to use AC5 to compile. To install the AC5 compiler, you need to open the project first.



#### **Install AC 5**

Open setup.exe under ARMCompiler\_5.zip as an administrator and install according to the prompts:



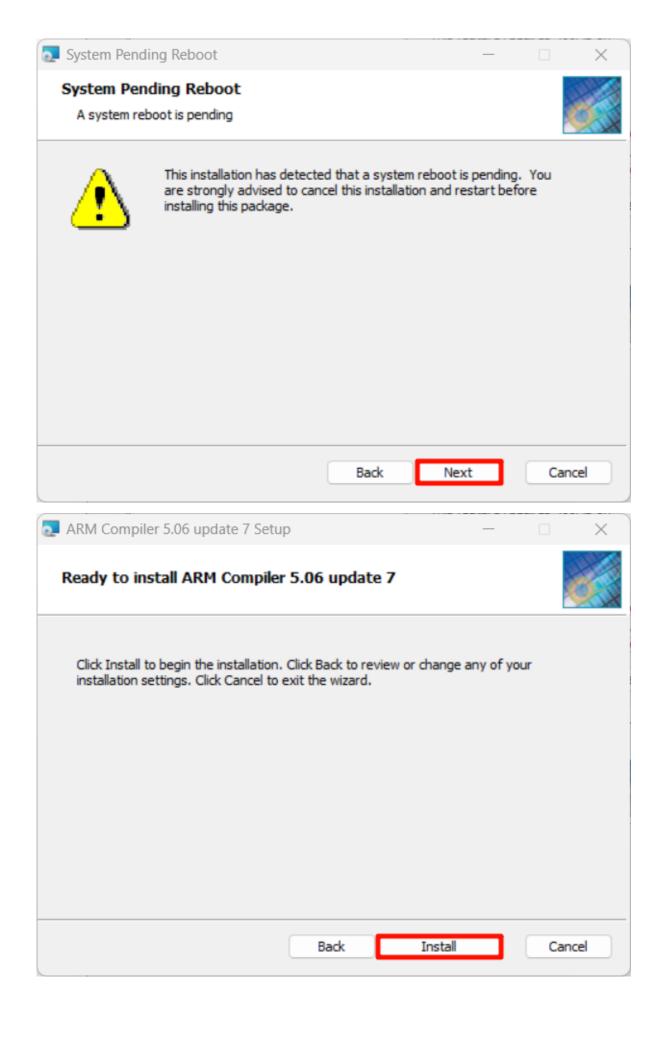


#### **Installation location**

Modify the installation location: Create a new ARMCC folder in the C:\Users\W\_ML\AppData\Local\Keil\_v5\ARM folder, and select this folder as the installation location of AC5

You need to create a new ARMCC folder according to your own MDK-ARM installation location

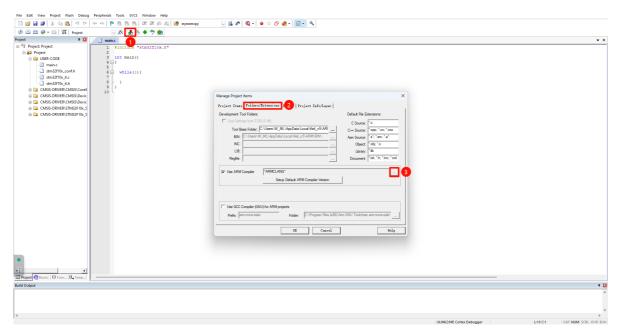
image-20241030165327510

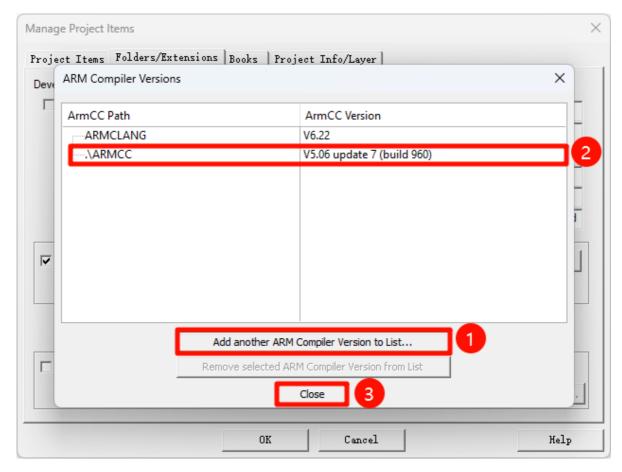




#### Add AC 5

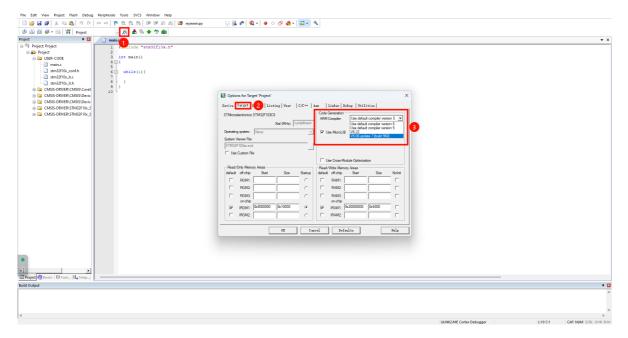
The following operations involve MDK-ARM software, and you need to open a project; otherwise, the relevant menu options cannot be selected.





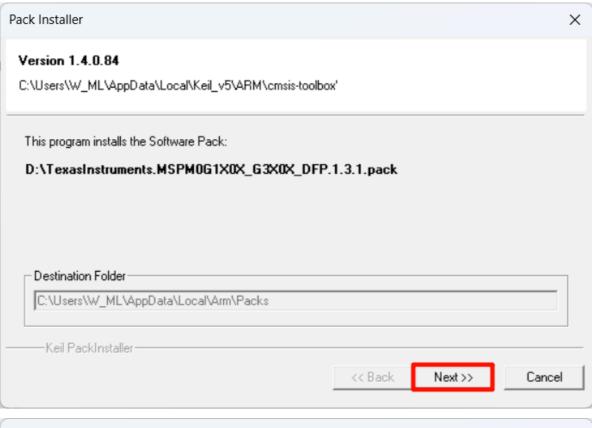
#### **Verify AC 5**

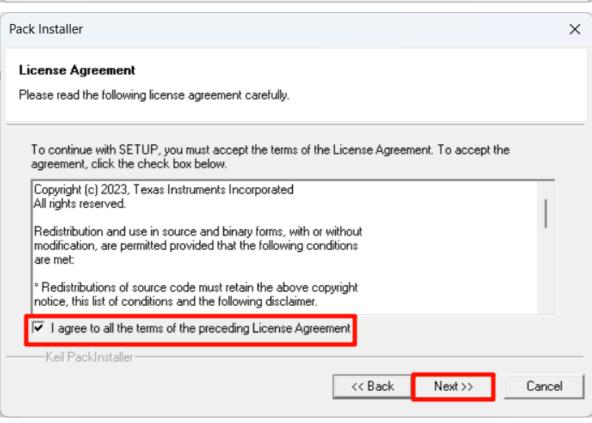
The appearance of compiler version 5 indicates that the installation is successful!

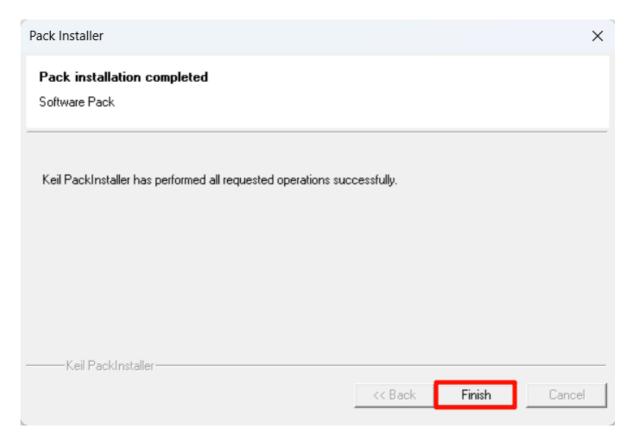


### Install the MSPM0G chip package

Double-click to open the <code>TexasInstruments.MSPMOG1X0X\_G3X0X\_DFP.1.3.1.pack</code> file to install the chip package:



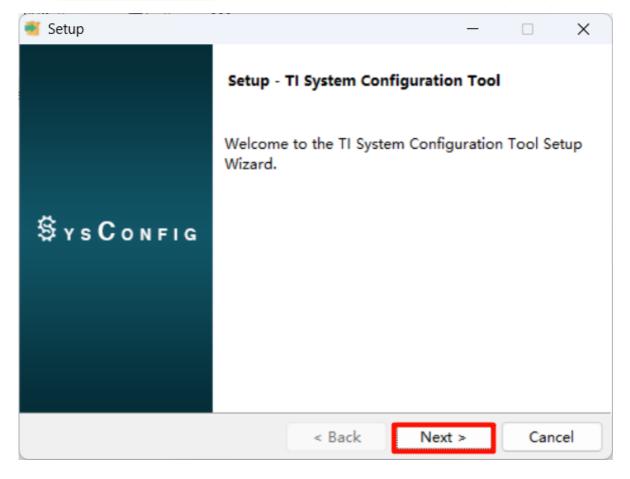


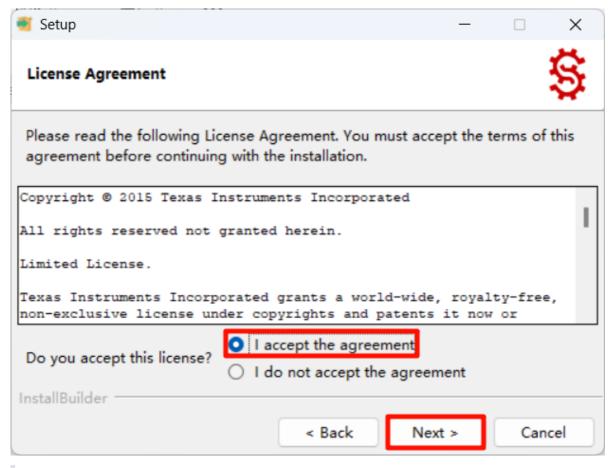


# 2. SysConfig installation

SysConfig is a configuration tool for TI microcontrollers and processors, designed to simplify hardware and software configuration for TI developers and accelerate software development!

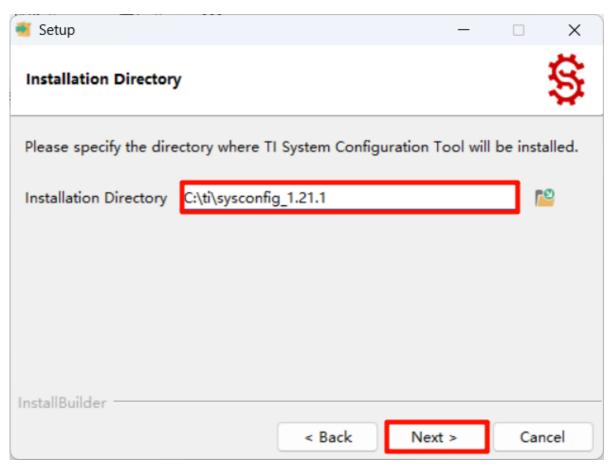
Open sysconfig-xxx-setup.exe as an administrator and install according to the prompts:

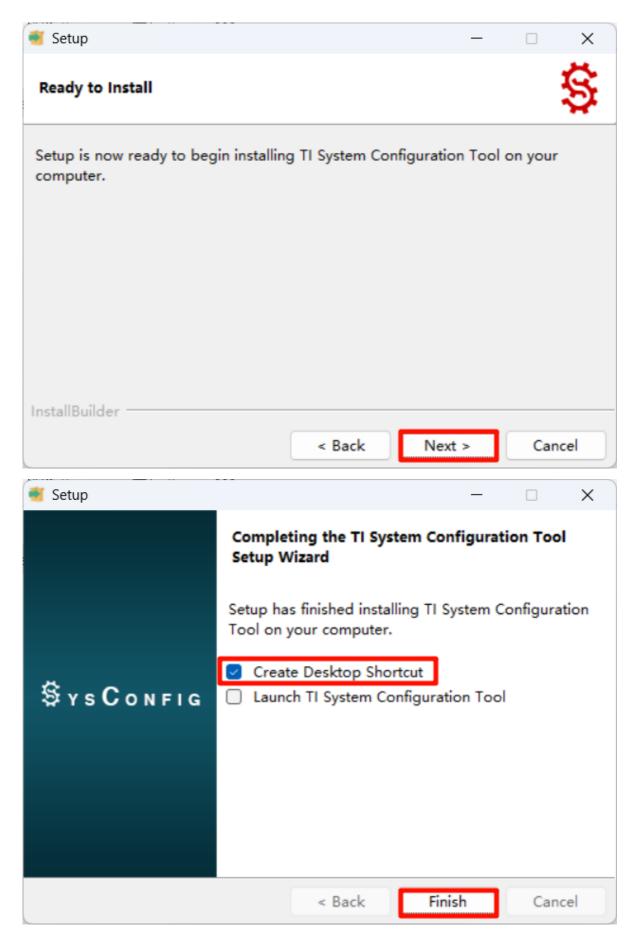




**Installation location** 

The recommended default location for the software is:





# 3. Configure SysConfig for KEIL 5

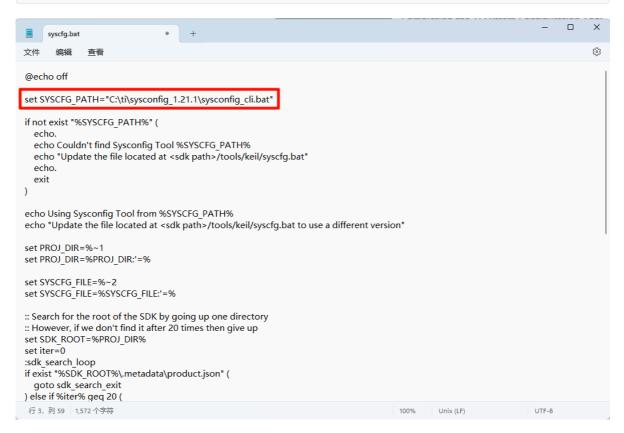
Use the SysConfig tool on KEIL MDK-ARM.

### syscfg.bat

Use Notepad to edit the <code>syscfg.bat</code> file, and then check whether <code>syscfg\_path</code> is correct: \*\* Fill in the <code>sysconfig\_cli.bat</code> file path in the <code>SysConfig</code> installation directory, pay attention to whether the version number and path are consistent! \*\*

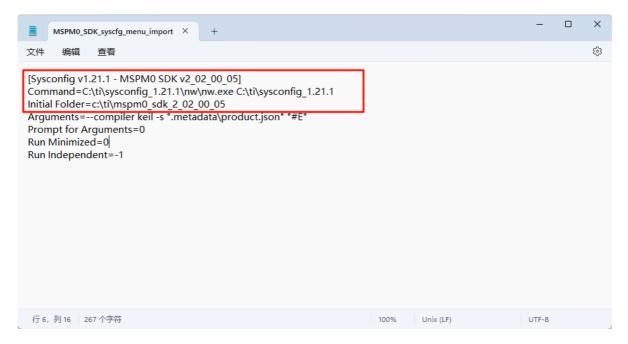
```
syscfg.bat file path: C:\ti\mspm0_sdk_2_02_00_05\tools\keil sysconfig_cli.bat file path: C:\ti\sysconfig_1.21.1

If the user changes the default installation location of the software, he needs to find the syscfg.bat file under the MSPMO-SDK installation location and modify it
```

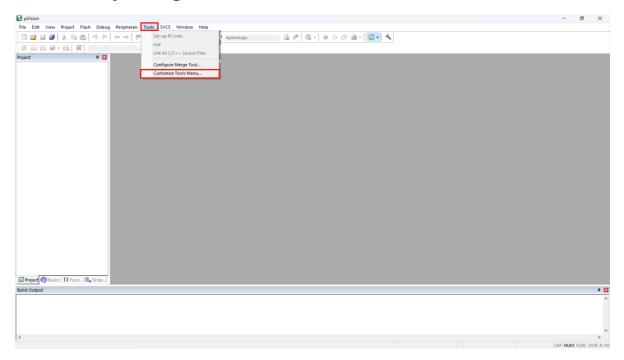


## MSPM0\_SDK\_syscfg\_menu\_import.cfg

Use Notepad to edit the MSPMO\_SDK\_syscfg\_menu\_import.cfg file, and then check if the path and version number are correct:



## **KEIL 5 Add SysConfig tool**

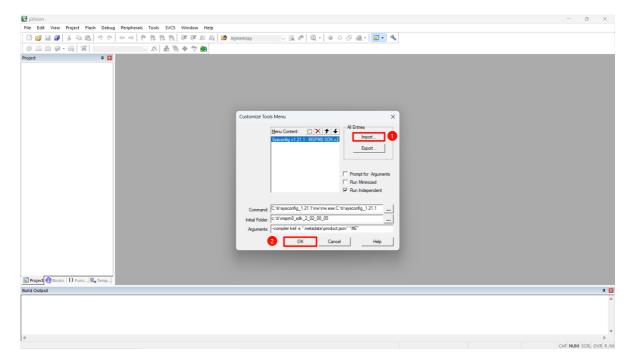


Find and open the MSPMO\_SDK\_syscfg\_menu\_import.cfg file:

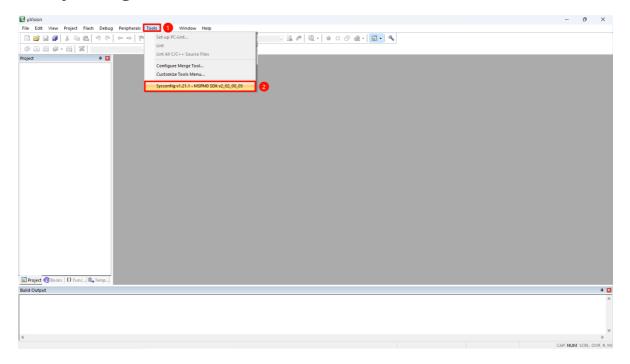
MSPMO\_SDK\_syscfg\_menu\_import.cfg file location:

C:\ti\mspm0\_sdk\_2\_02\_00\_05\tools\keil

If the user changes the default installation location of the software, he needs to find the MSPMO\_SDK\_syscfg\_menu\_import.bat file under the MSPMO-SDK installation location



## **Use SysConfig tool**



The following interface appears, indicating that the configuration is successful!

Opening the SysConfig tool in the .cfg file of the TI project will not cause this prompt!

