

# TI C2000 Toolbox First-time setup

This document describes how to install the package and configure the TI C2000 settings. Once all required software is installed, setup is done with several clicks.

**It is recommended to perform this before using any peripheral component.**

## Hardware requirements

Currently supported TI C2000 devices:

- LaunchPad devices:
  - [F28379D](#),
  - [F280049C](#),
  - [F280039C](#),
  - [F280025C](#),
  - [F2800137](#);
- ControlCard devices:
  - [F28379D](#)
  - [F28335](#).

## Software requirements

TI C2000 Toolbox requires following software:

1. Typhoon HIL Control Center version 2024.4 or newer
2. Software provided by [Texas Instruments](#):
  - Code Composer Studio™(CCS) – version 11.0.0.00012 or newer – [download](#)
  - C2000Ware for C2000 MCUs – version 4.0.0.0 or newer – [download](#)

## Configure root paths

In order to compile the generated code, TI C2000 Toolbox relies on MCU vendor-provided software:

- Compiler in use, located in CCS installation folder,
- Flash algorithm resources, located in CCS installation folder,
- Bitfields and registers definitions, located in device support files in C2000Ware

Paths to these folders are provided using [TI C2000 Setup](#) component. User should configure the *CCS root path* and *C2000Ware root path*, that are part of Settings tab, as shown in Figure 2.

If default folder naming is used, CCS root path should end with 'ccs<x>' folder, x being the version of CCS installed. If default naming is used, C2000Ware root path ends with 'C2000Ware\_<y>', y being the name of C2000Ware version installed.

Therefore, for CCS version 11.0.0 and C2000Ware 5.0.0.0 and default installation paths, property values should be set to:

- **CCS root path** – C:\ti\ccs1100
- **C2000Ware root path** – C:\ti\c2000\C2000Ware\_5\_00\_00\_00

## Write settings

In order to write settings, an example model can be used. Example models are accessible through [Example Explorer](#) (Figure 1). In Blinky project example, [TI C2000 Setup](#) component can be double-clicked and used to provide the paths, as explained in previous section.

Upon package installation, these paths are not written yet. By double-clicking on the [TI C2000 Setup](#) component it will check if the paths are written, and a specialized window will appear if they are not (Figure 2). User is offered to browse through PC to find the required paths, as described in '[Configure root paths](#)' section. Once settings are written, they affect all models. Once user drags-and-drops new [TI C2000 Setup](#) component, last written settings **will be automatically written** on the corresponding properties. This means that, **unless user changes the installed version of software in use, there is no need to write the settings again. It is recommended to reload a model WITHOUT saving it after writing the settings paths for the first time.**

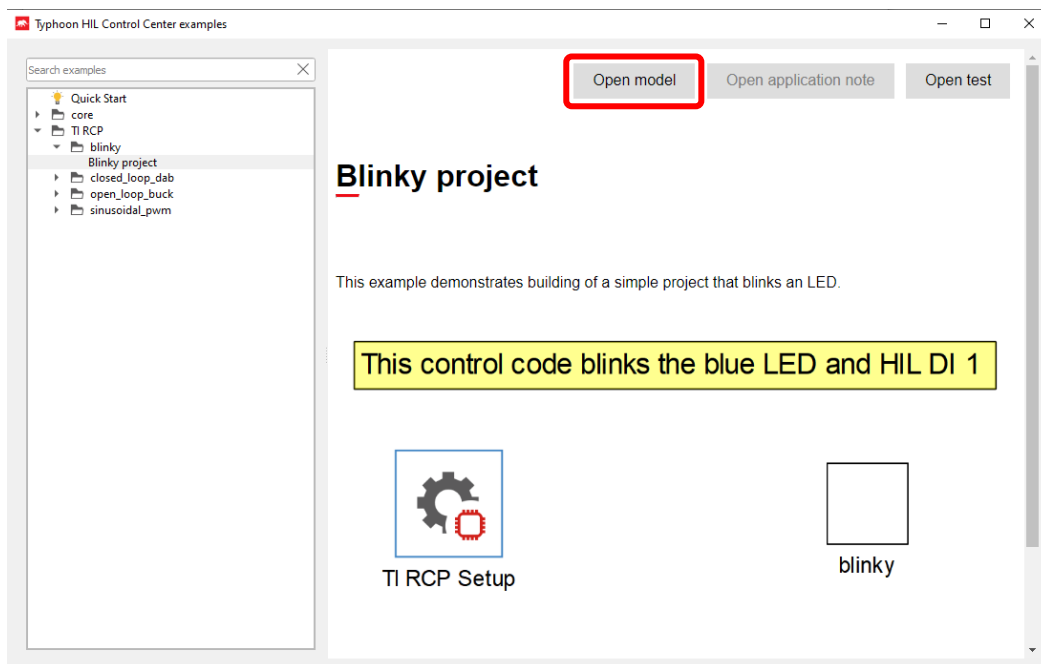
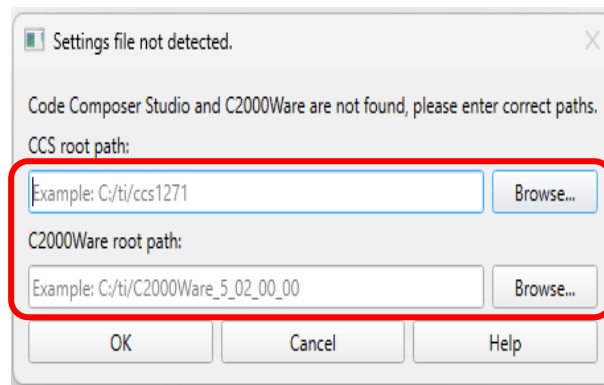


Figure 1. Blinky project example in Example Explorer



**Figure 2. TI C2000 Setup component dialog – settings not found.**