INSA INSTITUT NATIONAL DES SCIENCES APPLIQUÉES LYON

GEA-4-IF4

STM32CUBEIDE
CREATE A NEW PROJECT

membre de UNIVERSITÉ DE LYON

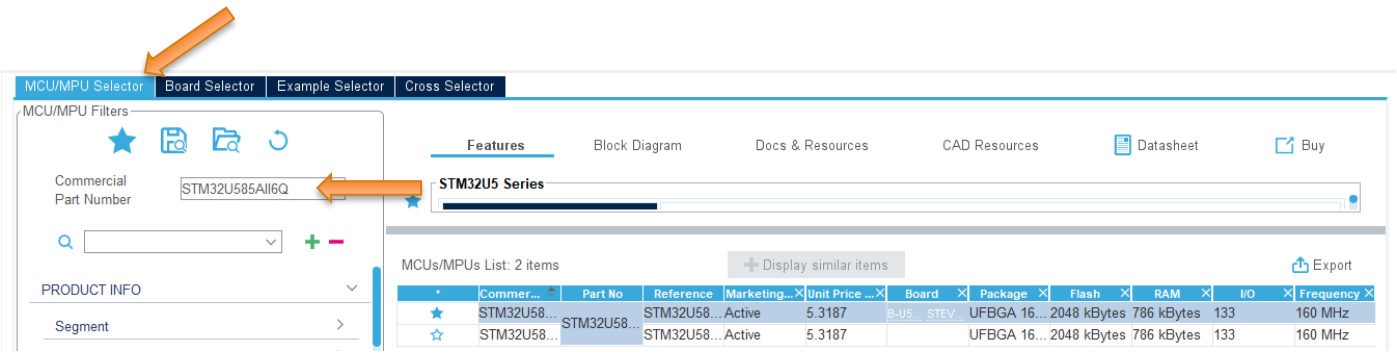
STM32CUBEIDE

How to create a blank project for STM32U585

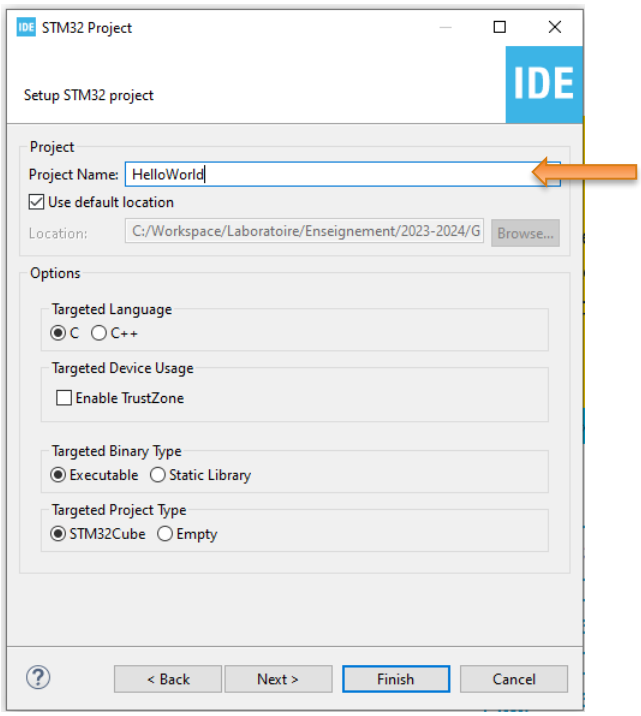
This guide contains the necessary steps to create a blank project for STM32U585AII6Q which is mounted on B-U585I-IOT02A boards:

Create an empty project for STM32U585AII6Q

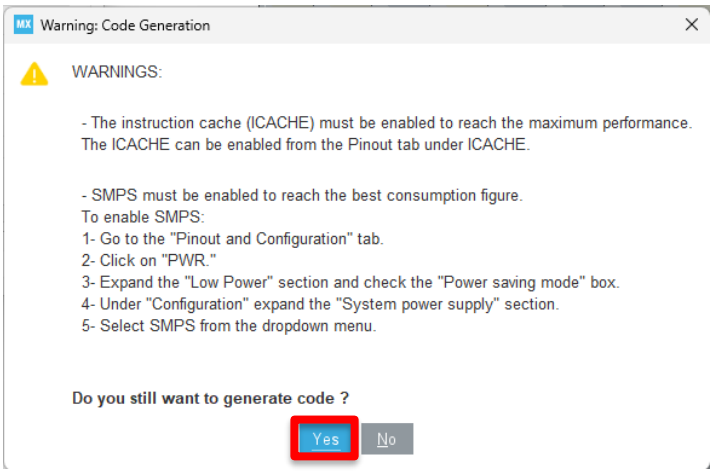
- ➔ Open menu “File” then sub-menu “New” and “STM32 Project”
- ➔ In the target selector, type “STM32U585AII6Q” under the **MCU/MPU Selector** tab:



- ➔ Select the first device in the list and press “Next”
- ➔ Name your project as wanted and click « Finish »



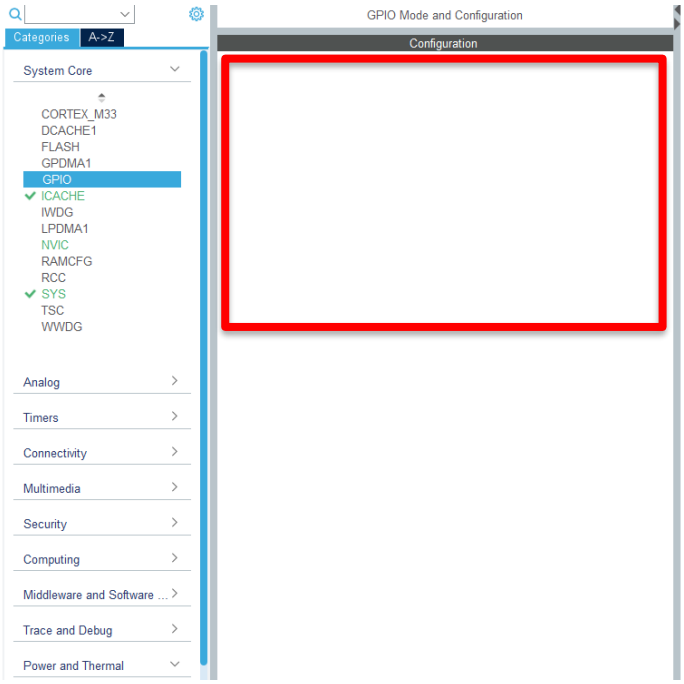
- ➔ When asked to generate code, click “Yes” despite the following warning:

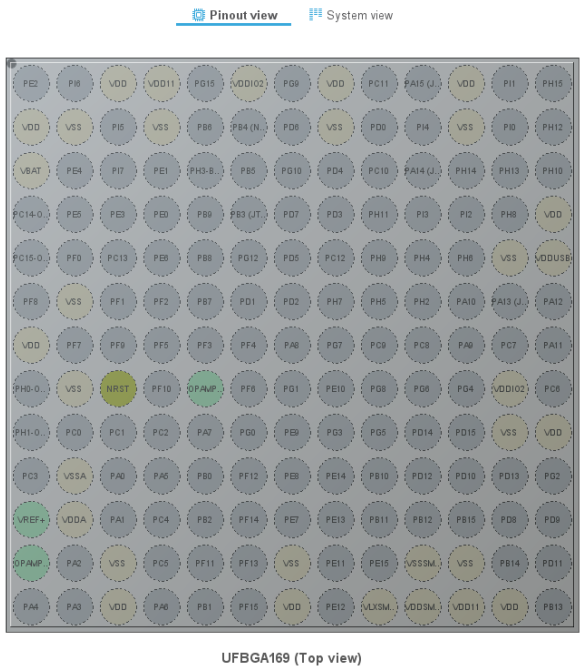


Cube MX project configurator

Cube MX is a very powerful and user-friendly tool to configure all STM32 peripherals when creating a new project. All the configuration done can be updated later for modifications and code will be re-generated accordingly.

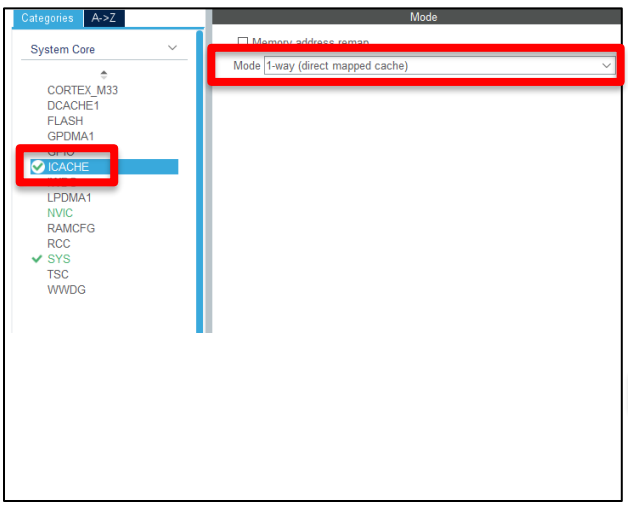
➔ After creating the project, ensure the GPIO list is empty:

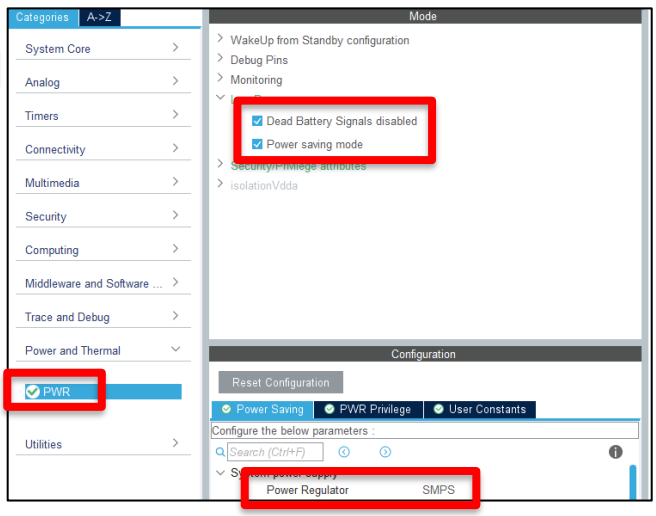




UFBGA169 (Top view)

➔ Configure ICACHE (in System Core category) and PWR (in Power and Thermal category) as follow:

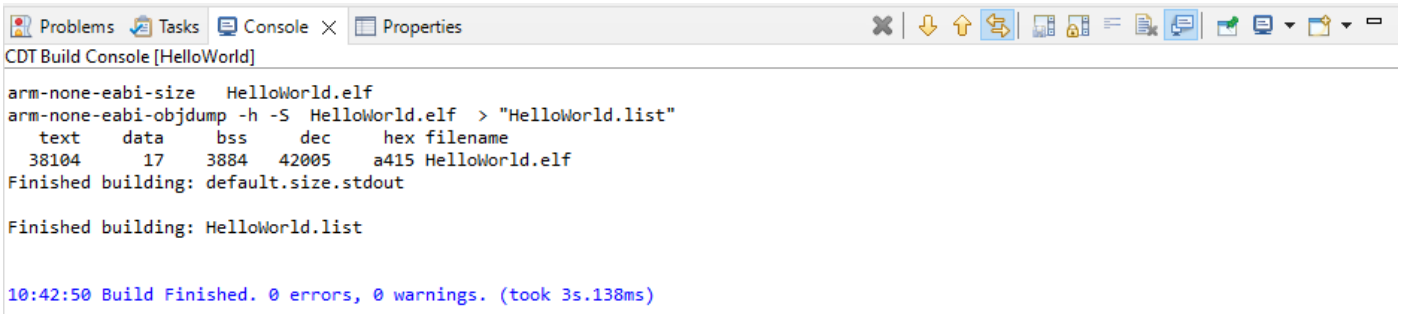




➔ Just select menu “File” → “Save” and click “Yes” button to the generate Code window each time you make updates on the Cube MX configuration.

➔ After code generation and when **main.c** file is opened, try to build the project

➔ If build was successful, you should see the result in Console



➔ **You are ready!**