

# GEA-4-IF4

STM32CUBEIDE  
CREATE A NEW PROJECT

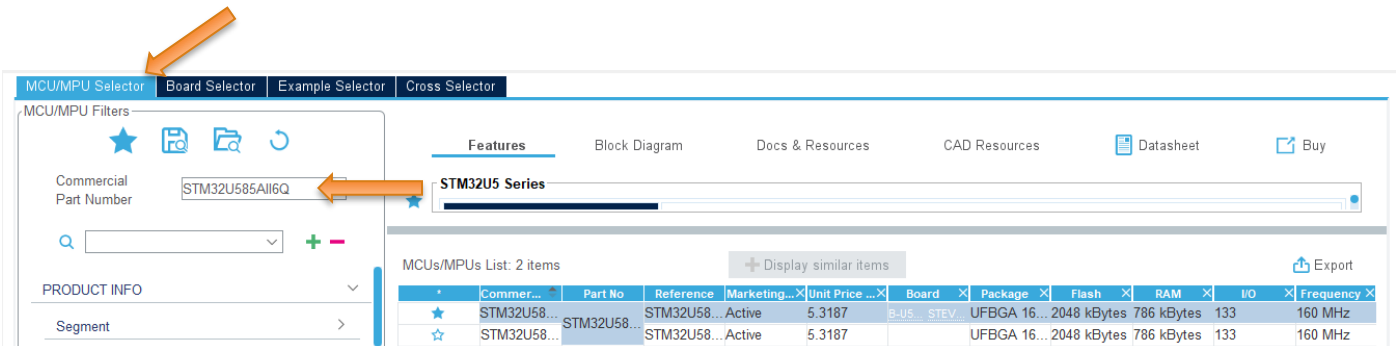
# STM32CUBEIDE

## How to create a blank project for STM32U585

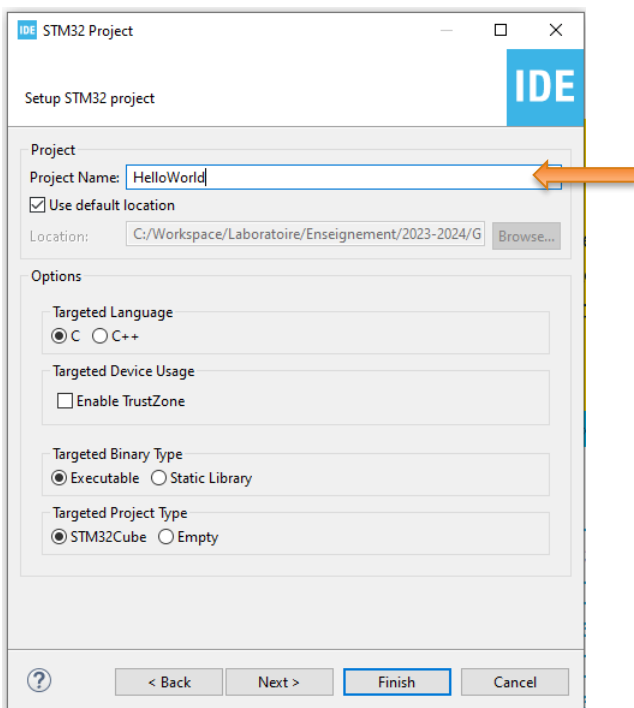
This guide contains the necessary steps to create a blank project for STM32U585AI16Q which is mounted on B-U585I-IOT02A boards:

## Create an empty project for STM32U585AI16Q

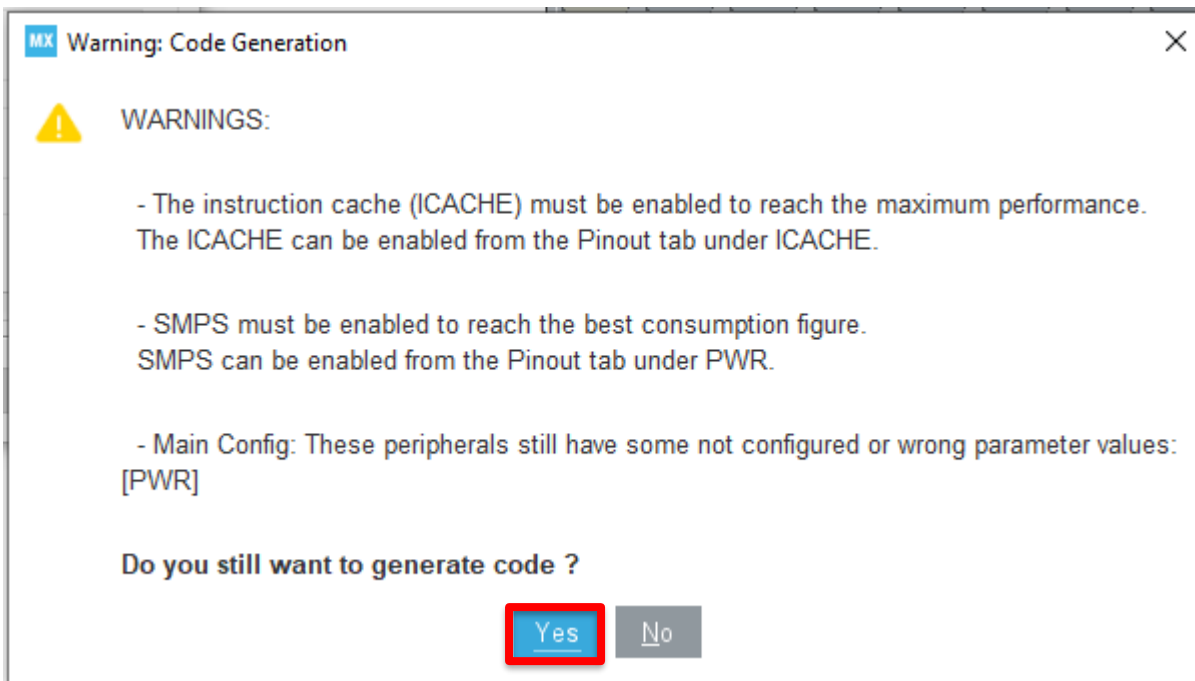
- ➔ Open menu “File” then sub-menu “New” and “STM32 Project”
- ➔ In the target selector, type “STM32U585AI16Q” under the **MCU/MPU Selector** tab:



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



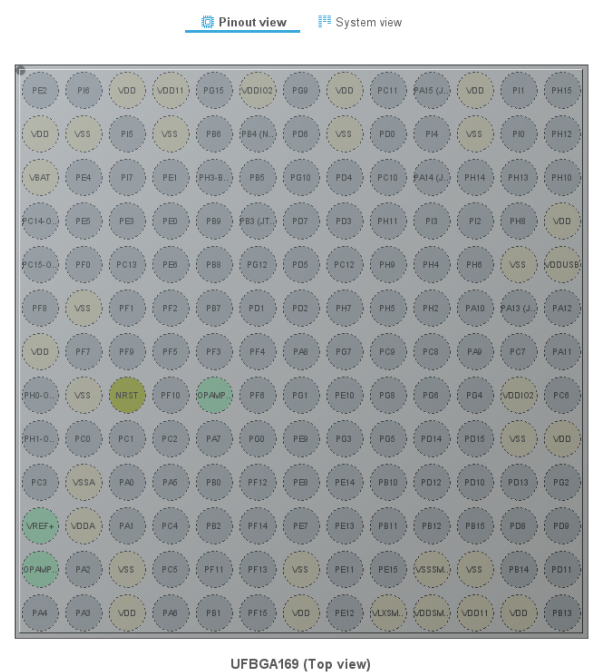
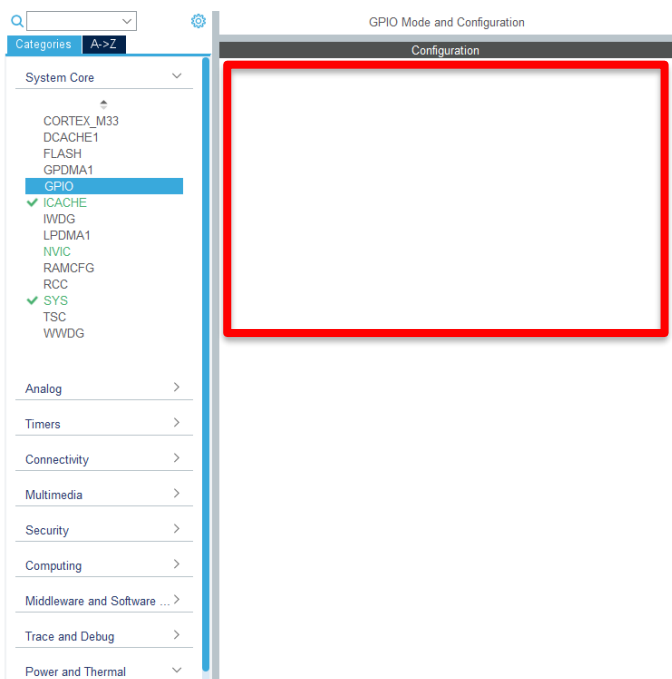
- ➔ When asked to generate code, click “Yes” despite the following warning:



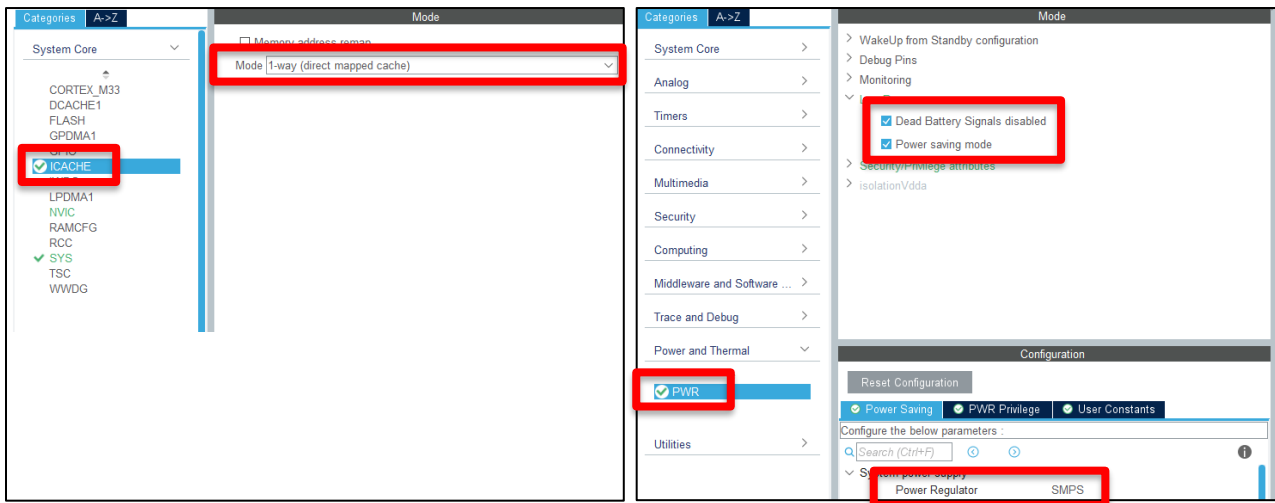
## Cube MX project configurator

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:



➔ 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

```

Problems Tasks Console × Properties
CDT Build Console [HelloWorld]

arm-none-eabi-size HelloWorld.elf
arm-none-eabi-objdump -h -S HelloWorld.elf > "HelloWorld.list"
text data bss dec hex filename
38104 17 3884 42005 a415 HelloWorld.elf
Finished building: default.size.stdout

Finished building: HelloWorld.list

10:42:50 Build Finished. 0 errors, 0 warnings. (took 3s.138ms)

```

- ➔ You are ready!