

# Getting Started with AURIX™ Development Studio Installation and first steps

AURIX™ Development Studio Training V1.10.24



## infineon

#### Scope of work

This tutorial provides a guide for the user to:

- Install AURIX™ Development Studio V1.10.24
- Create new project
- Import project (Infineon Code Examples Repository)
- Build project
- Debug project
- Additional material



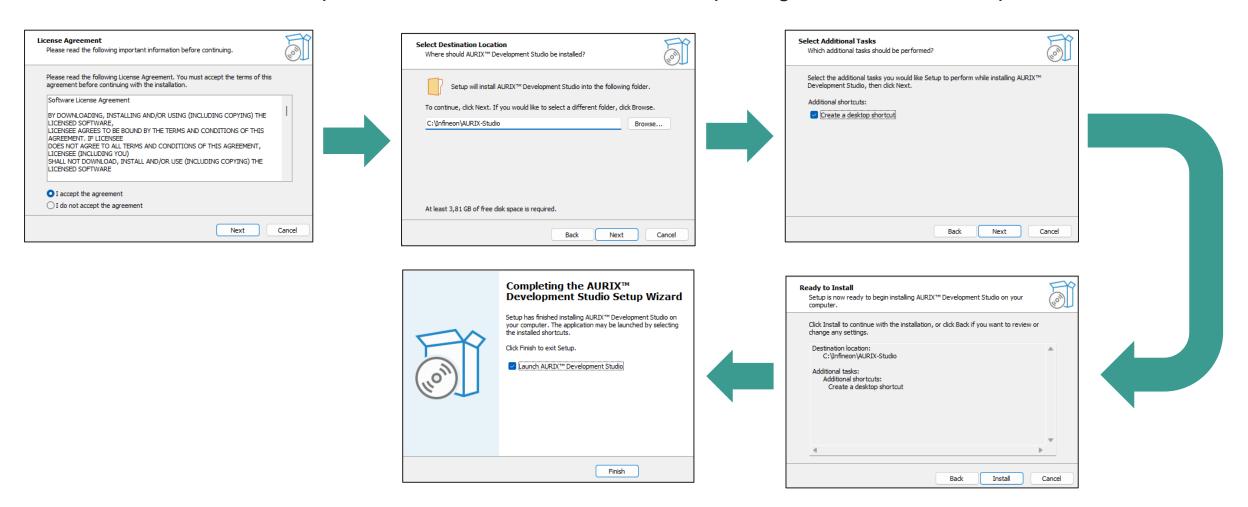
#### **Download**

The installation package of AURIX™ Development Studio can be found here:
 <a href="https://www.infineon.com/aurixdevelopmentstudio">https://www.infineon.com/aurixdevelopmentstudio</a>



## Install AURIX™ Development Studio - 1

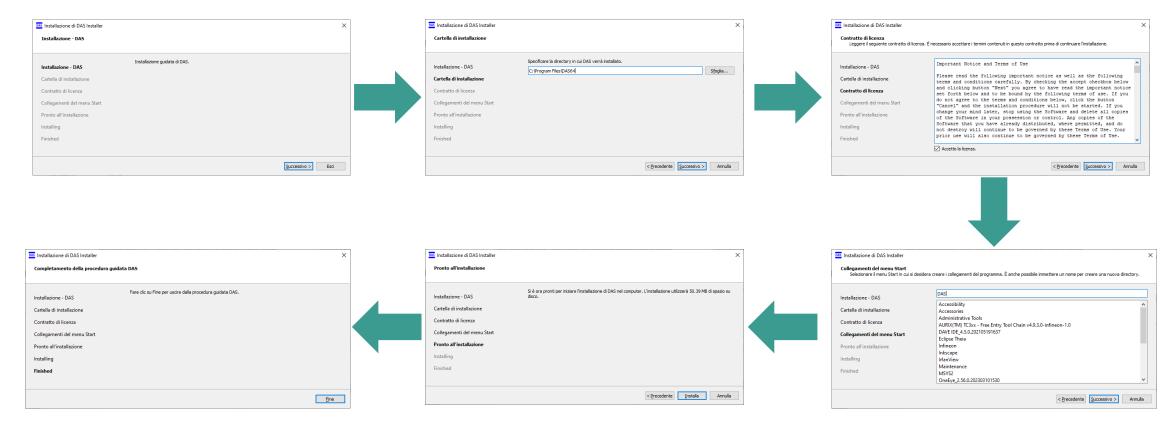
To install AURIX™ Development Studio, launch the installation package and follow the steps:





#### **Install AURIX™ Development Studio - 2**

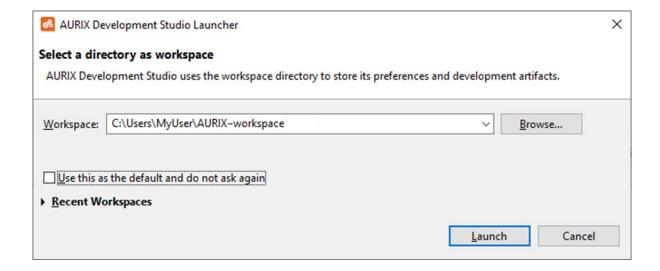
If DAS64 is not installed or outdated, it will be installed automatically during the AURIX™ Development Studio installation:





#### **Workspace definition**

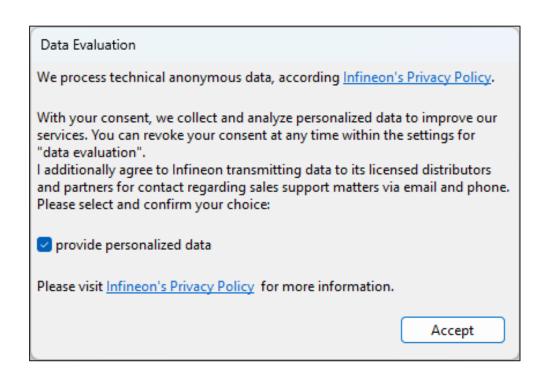
After launching the AURIX™ Development Studio, it is necessary to select a workspace



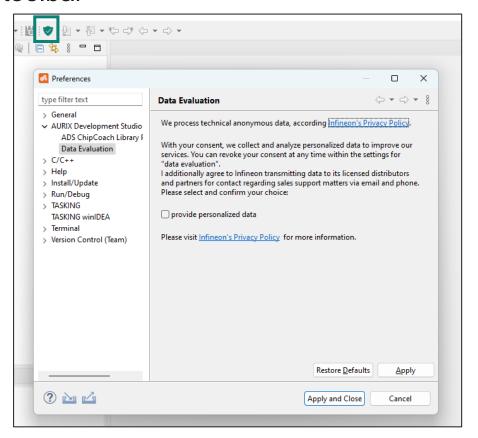


#### **Data evaluation consent**

- On the first start you are asked for the consent to send data to Infineon for evaluation purposes.
- You can choose which data to send.

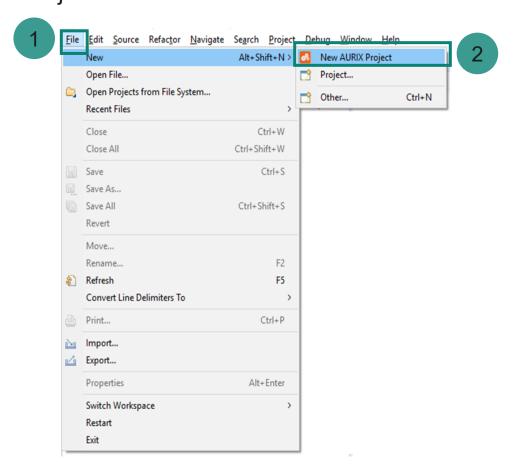


 You can later decide to modify your consent by clicking on "Open Data Evaluation Settings" on the toolbar



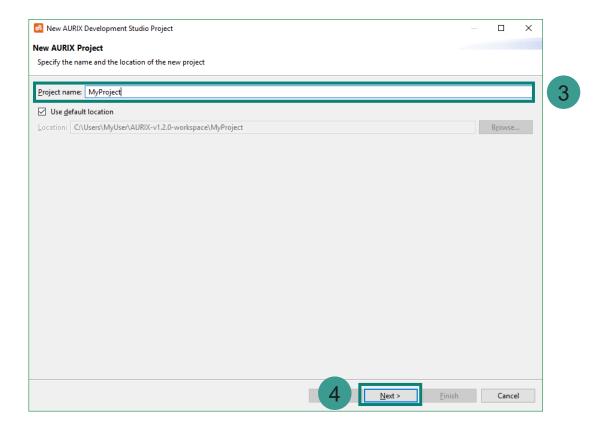


Once the program is started, a new project can be created by selecting
 File >> New >> "New AURIX Project"



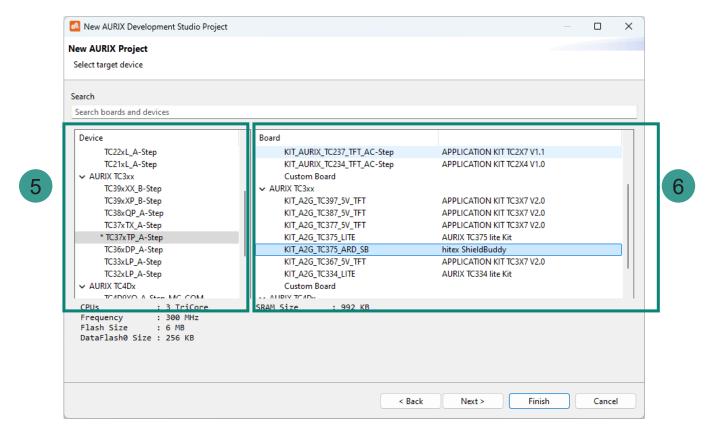


- From the "New AURIX Development Studio Project" window, choose a name for the new project (3)
- The "Use default location" checkbox should be set in order to create the project inside the current selected workspace



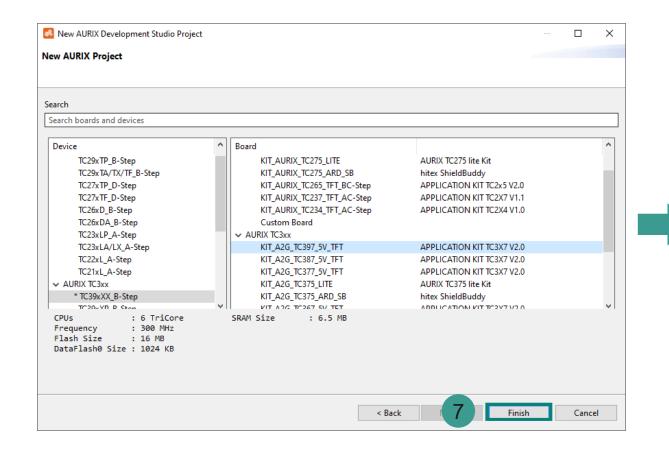


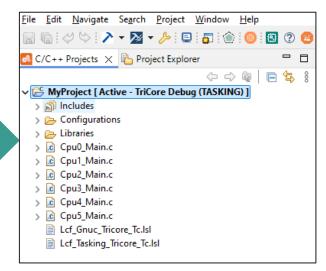
From the "New AURIX Development Studio Project" window, choose the device or the board. A specific device
 (5) or board (6) can be chosen from the left or right list. Furthermore, while selecting a board, the tool highlights the supported devices for that board and vice versa





By pressing "Finish" (7), a new project is created

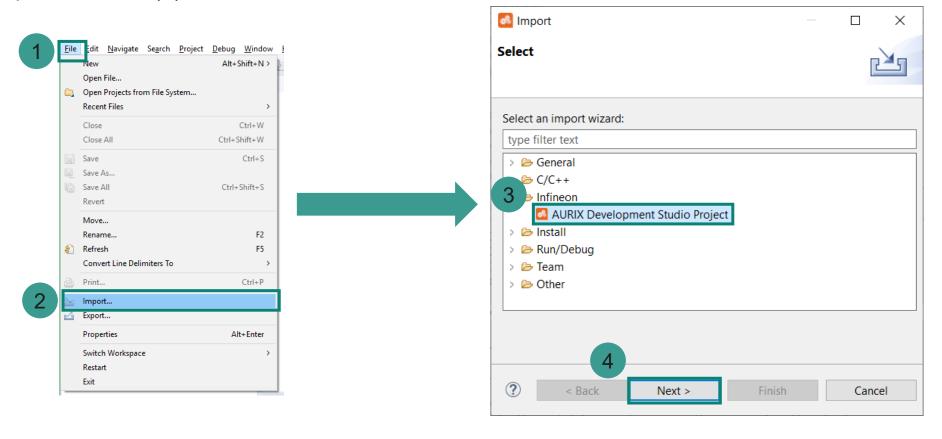






#### Import project (Infineon Code Examples Repository) - 1

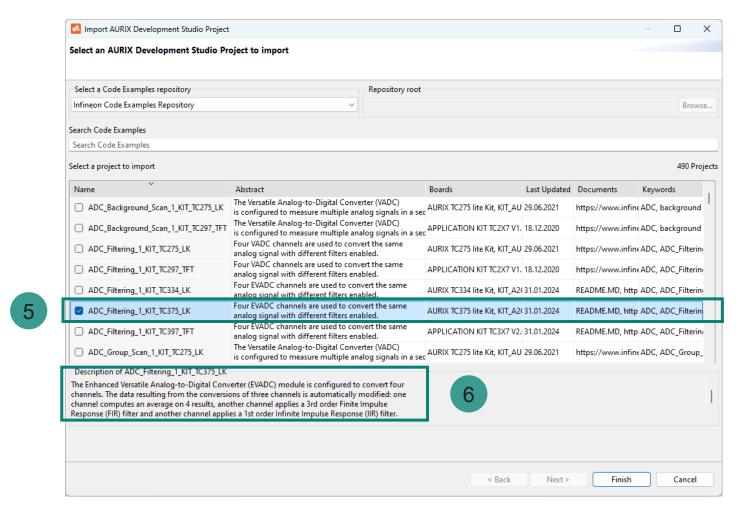
- Alternatively, it is possible to import an example project using File >> "Import..." utility (1-2) and selecting Infineon >> "AURIX Development Studio Project" type (3)
- At the end, press "Next" (4)





### Import project (Infineon Code Examples Repository) - 2

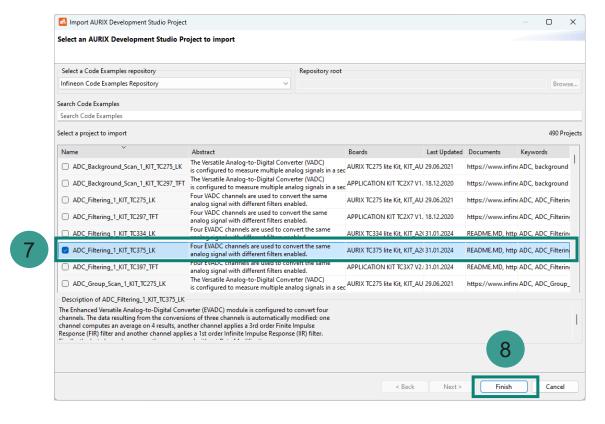
Hint: Clicking on an example project (5) in the list shows the example description (6)





### Import project (Infineon Code Examples Repository) - 3

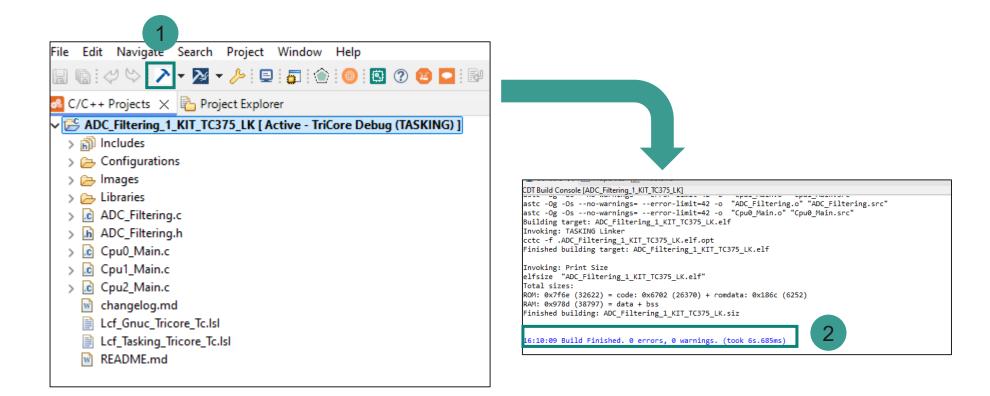
 Select (double-click) an example project (7) from the list and press "Finish" (8). This creates a local copy of the example in your workspace directory and opens the project





#### **Build project**

 Before debugging, it is necessary to build the project. Press the "Build Active Project" icon (1) and when the build is finished, check that there are no compiling errors (2)



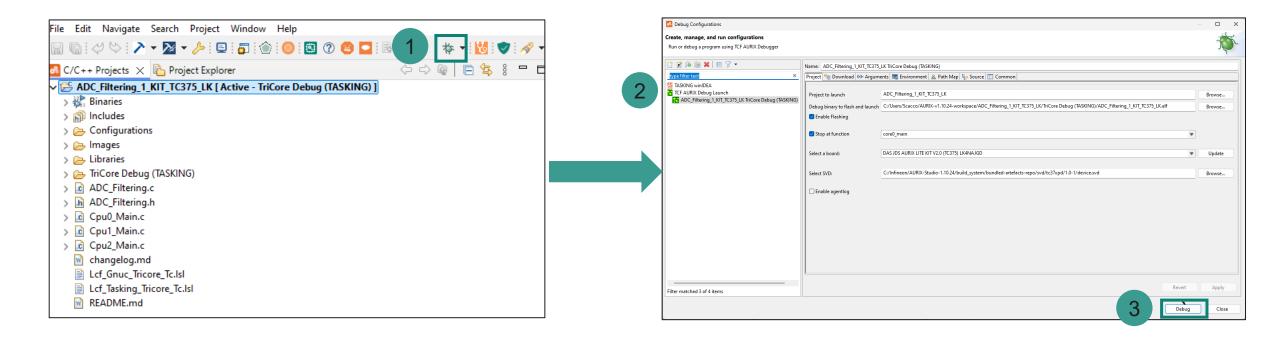


Connect your device via an USB cable to the PC





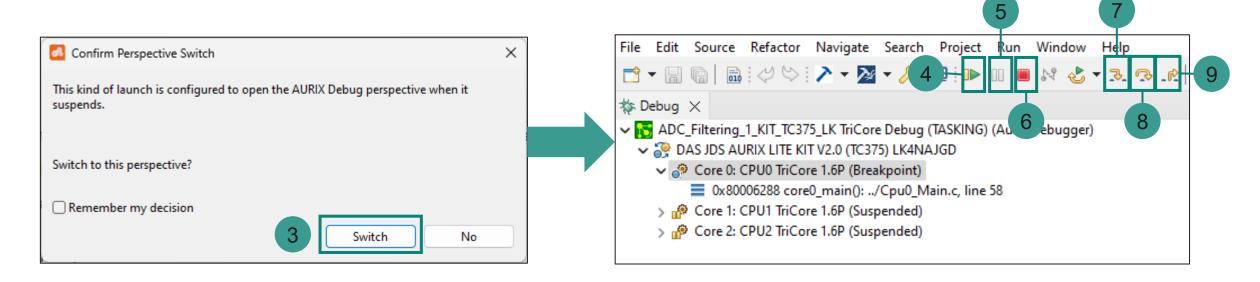
In order to flash and debug the code, press the "Debug Active Project" icon (1), chose a debugger (2) and then
press the "Debug" button on the "Debug Configurations" window (3)





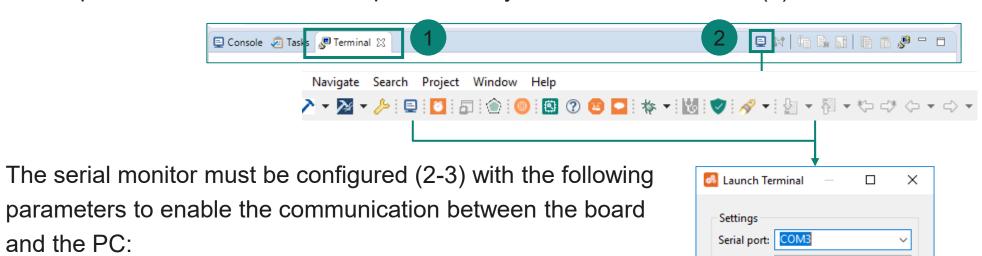
#### When using TCF AURIX Debugger:

- Switch the perspective when asked (3) and press "Resume" (4) to run the code
- While running, the code can be stopped with the "Suspend" button (5)
- To terminate the debug session, press the "Terminate" button (6)
- Additionally, in the Debug perspective, it is also possible to run the code in single or multiple steps with the buttons "Step Into" (7), "Step Over" (8) and "Step Return" (9)





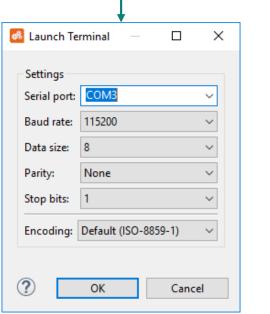
 A serial monitor is open by default (1) in the Debug Perspective inside the AURIX™ Development Studio, or it can be open manually from the terminal icon (3)



- Serial port number
- Speed (baud rate)
- Data size

and the PC:

- **Parity**
- Stop bits



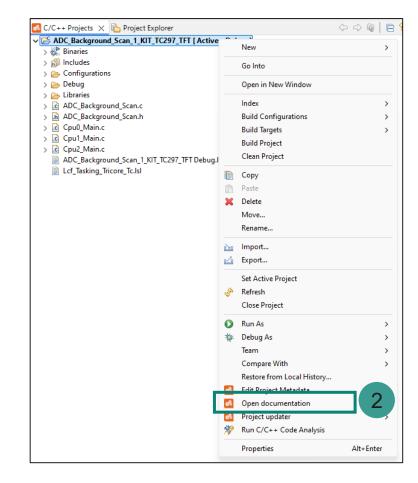


- All the imported examples from Infineon come with a tutorial explaining the needed HW/SW setup, the code and how to run and test the example
- The tutorial can be a .pdf file or a readme file in Markdown, depending on the type of example code.



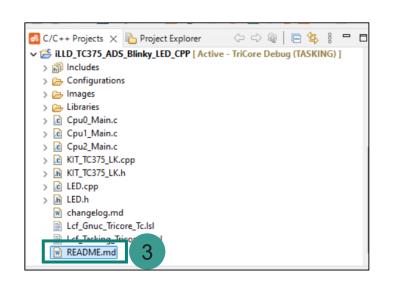
If the Tutorial is a pdf file, is accessible from the AURIX™ Development Studio by Ctrl + click on the link (1) in the Cpu0\_Main.c file or by Right clicking on the project name and pressing the "Open documentation" utility (2)

```
Cpu0_Main.c ⊠
* WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE
    * COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN
    * CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
27⊖ /*\title ADC background scan source
     * \abstract The Versatile Analog-to-Digital Converter (VADC) is configured to measure multiple analog signals in a sequence using background scan request.
     * \description The Background Scan mode of the Analog-to-Digital Converter (ADC) module is configured to measure the
30
                    analog signals applied to the channels 0 to 3 of the group 0.
31
32
    * \name ADC_Background_Scan_1_KIT_TC297_TFT
    * \version V1.0.0
    * \board APPLICATION KIT TC2X7 V1.1, KIT_AURIX_TC297_TFT_BC-Step, TC29xTA/TX_BC-step
                 https://www.infineon.com/aurix-expert-training/Infineon-AURIX_ADC_Background_Scan_1_KIT_TC297 TFT-TR-v01 00 00-EN.pdf
     * \lastUpdated 2020-02-11
40 #include "Ifx Types.h"
41 #include "IfxCpu.h"
42 #include "IfxScuWdt.h"
43 #include "ADC Background Scan.h"
45 IfxCpu_syncEvent g_cpuSyncEvent = 0;
47⊖ int core0 main(void)
        IfxCpu_enableInterrupts();
        /* !!WATCHDOGO AND SAFETY WATCHDOG ARE DISABLED HERE!!
         * Enable the watchdogs and service them periodically if it is required
        IfxScuWdt disableCpuWatchdog(IfxScuWdt getCpuWatchdogPassword());
        IfxScuWdt_disableSafetyWatchdog(IfxScuWdt_getSafetyWatchdogPassword());
        /* Wait for CPU sync event */
        IfxCpu emitEvent(&g cpuSyncEvent);
```

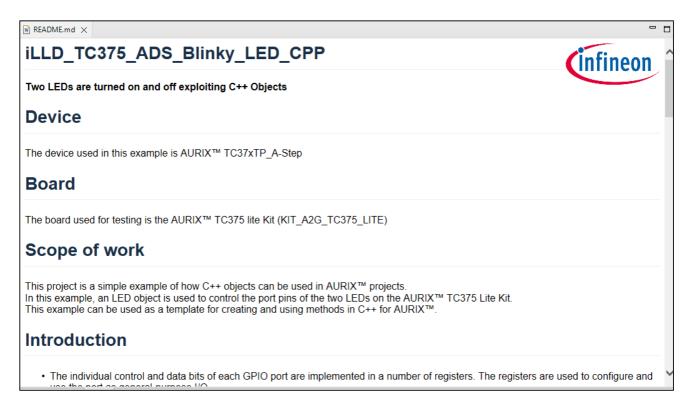




If the Tutorial is a redme markdown file, is accessible from the AURIX™ Development Studio by clicking on the readme.md (3) file in the project.

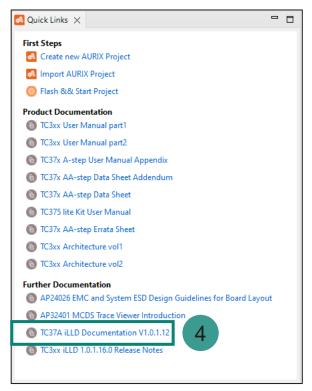


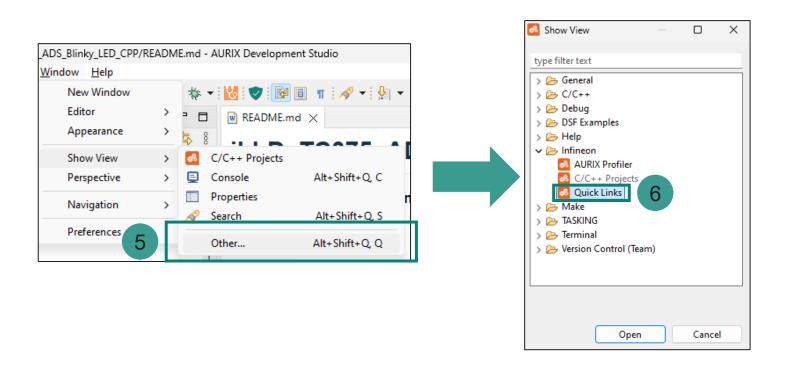






- It is possible to download the Infineon Low Level Drivers documentation for the specific device used in the example through the link(4) present in «Quick Links» section.
- If the Quick Links section is closed, open it manually by clicking "Windows >> Show View >> Other..."(5) Open «Infineon folder >> Quick Links(6)»





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Email: erratum@infineon.com

Document reference
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V1.10.24

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