Blinky_LED_1
for KIT_AURIX_TC375_SB
Blinky LED

AURIX™ TC3xx Microcontroller Training V1.0.0





Scope of work

An LED is blinking based on the timing given by a wait function.

A wait function is used to add delays between switching on and switching off an LED on port pin P10.2.



Introduction

- The individual control and data bits of each GPIO port are implemented in a number of registers. The registers are used to configure and use the port as general-purpose I/O.
- The port input/output control registers configure the functionality and characteristics of the GPIO port pin such as port direction (input or output), pull-up, pull-down, and push-pull or open-drain functionality.



Hardware setup

This code example has been developed for the board KIT_A2G_TC375_ARD_SB.





Implementation

Initialization of the LED

- The LED is initialized with the function IfxPort_setPinModeOutput() from the iLLD IfxPort.h.
- The LED is switched off with the function IfxPort_setPinHigh() from the iLLD IfxPort.h.

Toggling of the LED

- The state of the LED is toggled with the function IfxPort_togglePin() from the iLLD IfxPort.h.
- This state is hold during one second with the function waitTime() from the iLLD Bsp.h.

Run and Test

After code compilation and flashing the device, observe the **LED** (1), which should be blinking at a frequency of approximately 1 Hz.



References





- > AURIX™ Development Studio is available online:
- https://www.infineon.com/aurixdevelopmentstudio
- Use the "Import…" function to get access to more code examples.



- More code examples can be found on the GIT repository:
- https://github.com/Infineon/AURIX code examples



- For additional trainings, visit our webpage:
- https://www.infineon.com/aurix-expert-training



- For questions and support, use the AURIX™ Forum:
- https://www.infineonforums.com/forums/13-Aurix-Forum

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