Blinky_LED_1 for KIT_AURIX_TC367_TFT Blinky LED

AURIX[™] TC3xx Microcontroller Training V1.0.0



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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 P13.0.



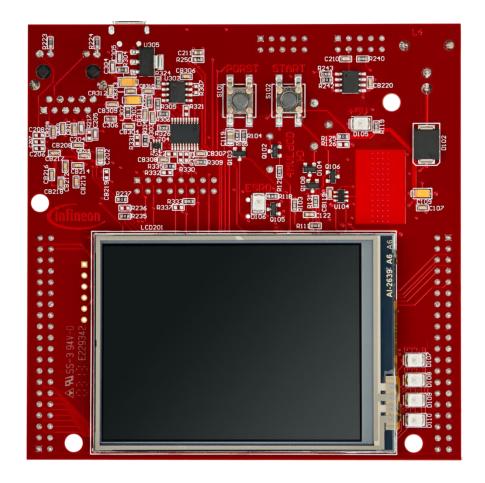
Introduction

- 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_TC367_5V_TFT.





Initialization of the LED

- The LED is initialized with the function *lfxPort_setPinModeOutput()* from the iLLD *lfxPort.h*.
- The LED is switched off with the function *lfxPort_setPinHigh()* from the iLLD *lfxPort.h*.

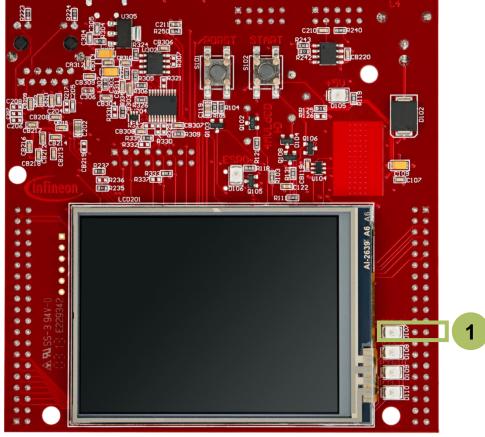
Toggling of the LED

- The state of the LED is toggled with the function *lfxPort_togglePin()* from the iLLD *lfxPort.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 D107 (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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