Blinky_LED_1
for KIT_AURIX_TC397_TFT
Blinky LED
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 P13.0.
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_TC397_5V_TFT.
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 D107 (1)**, which should be blinking at a frequency of approximately 1 Hz.
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:
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