Blinky_LED_1
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.
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_AURIX_TC297_TFT_BC-Step.
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.
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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

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