Blinky_LED_1
for KIT_AURIX_TC375_LK
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 P00.5.
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_LITE.
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.
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

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## Revision history

<table>
<thead>
<tr>
<th>Revision</th>
<th>Description of change</th>
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<tbody>
<tr>
<td>V1.0.1</td>
<td>Updated board's images</td>
</tr>
<tr>
<td>V1.0.0</td>
<td>Initial version</td>
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</tbody>
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