Blinky_LED_1
for KIT_AURIX_TC275_SB
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 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_AURIX_TC275_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
<table>
<thead>
<tr>
<th>Revision</th>
<th>Description of change</th>
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<tbody>
<tr>
<td>V1.0.1</td>
<td>Update of version to be in line with the code example’s version</td>
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<tr>
<td>V1.0.0</td>
<td>Initial version</td>
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