

# Blinky\_LED\_1

## for KIT\_AURIX\_TC375\_LK

### Blinky LED

AURIX™ TC3xx Microcontroller Training  
V1.0.1



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## Scope of work

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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 P00.5.

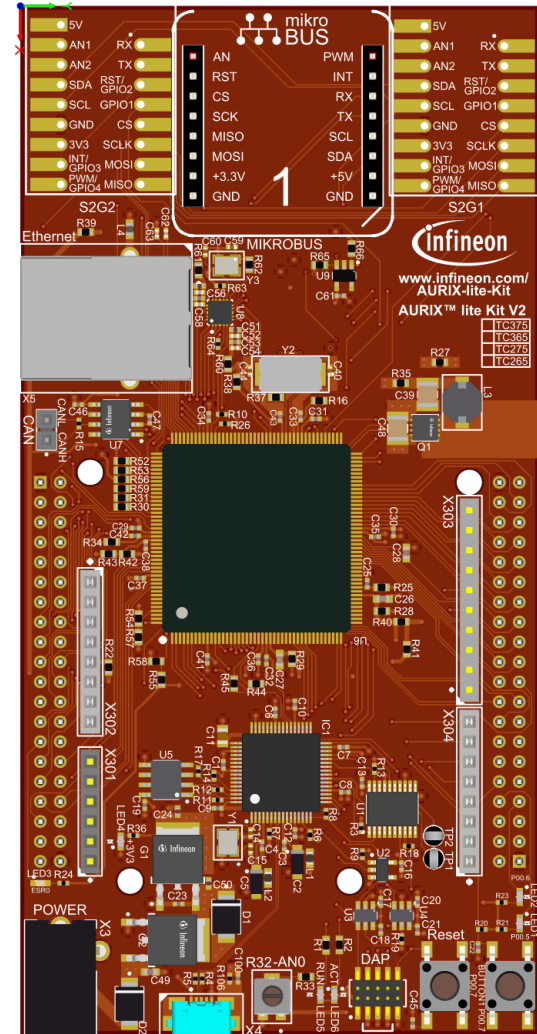
# Introduction

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- › 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

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## Initialization of the LED

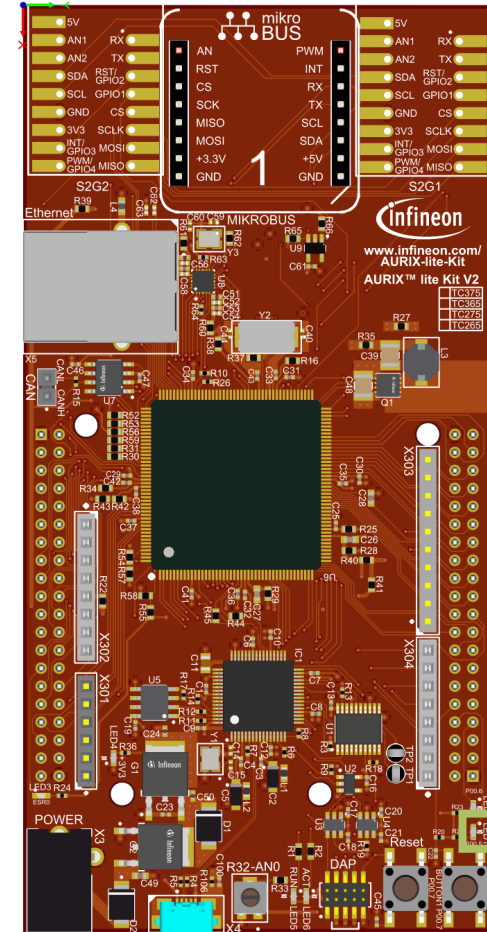
- › The LED is initialized with the function ***IfxPort\_setPinModeOutput()*** from the iLLD ***IfxPort.h***.
- › The LED is switched off with the function ***IfxPort\_setPinHigh()*** from the iLLD ***IfxPort.h***.

## 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.



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# 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](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>

# Revision history

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<b>Revision</b>	<b>Description of change</b>
V1.0.1	Updated board's images
V1.0.0	Initial version



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**Edition 2021-03**

**Published by**

**Infineon Technologies AG  
81726 Munich, Germany**

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**Email: [erratum@infineon.com](mailto:erratum@infineon.com)**

**Document reference**

**Blinky\_LED\_1\_KIT\_TC375\_LK**

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