

# Application Note

## ISD\_LED

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## 1. Preface

This application note describes the sample software of ISD\_LED using Interval Sensor Detection Circuit (ISD). This document helps the user check operation of a product under development and develop its program.

## 2. Technical Term

Term/Abbreviation	Definition
ISD	Interval Sensor Detection Circuit
LED	Light-emitting diode

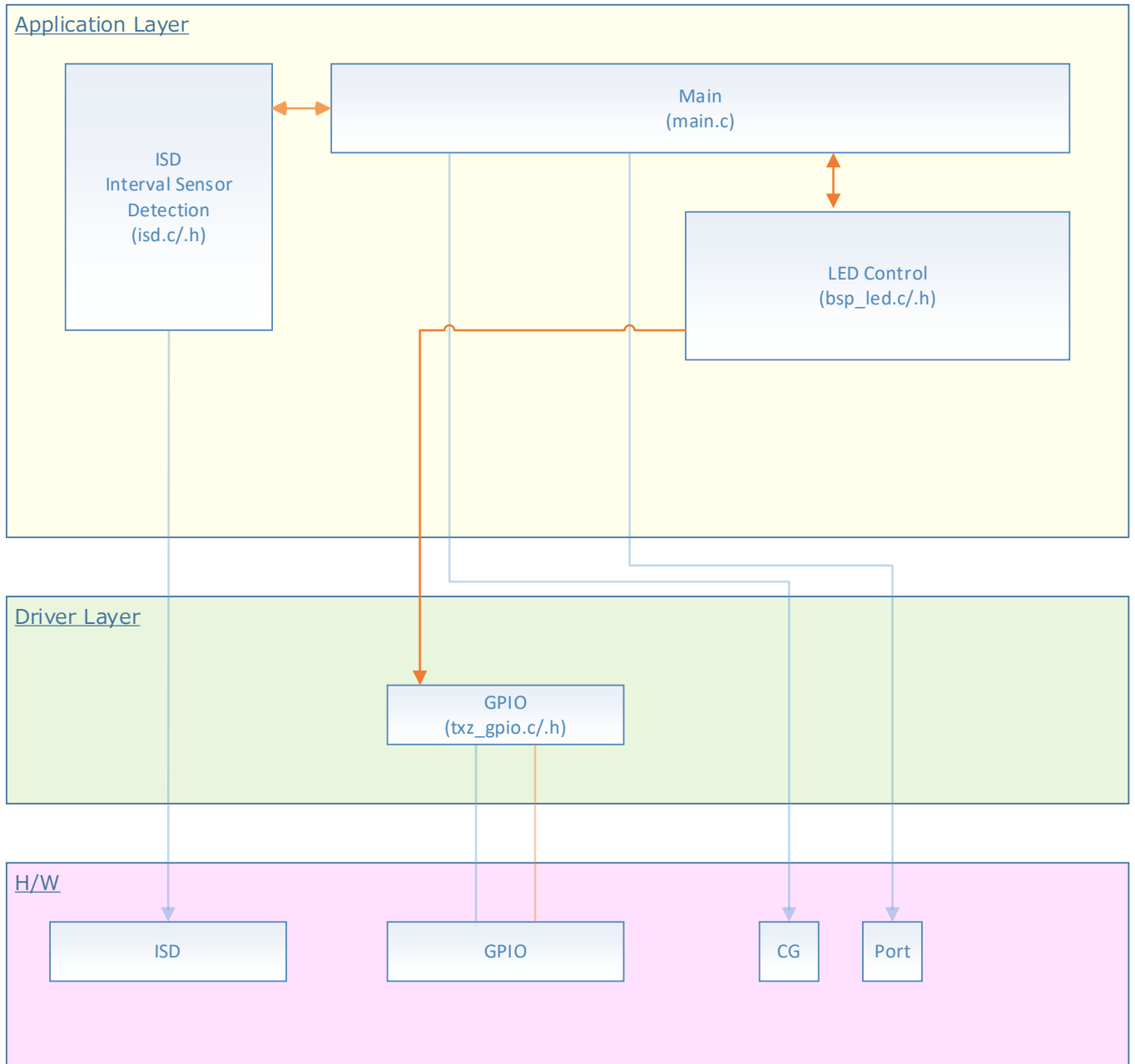
## 3. Reference Document

Document Name	Notes
Data sheet	Refer to the data sheet of MCU to be used.
Reference manual	Refer to the reference manual of each IP to be used.
Application note MCU User Guide	Refer to the MCU user manual to be used.

## 4. Target Sample Program

Sample Program	Outlines
ISD_LED	Sample of ISD_LED

## 5. Configuration Diagram



## 6. Sample Program: ISD\_LED

This sample software switches STOP mode to Normal mode using ISD function.

### 6.1. Outlines of Operation

After start-up, BSP\_LED\_2 turns on and the operating mode enters STOP1 mode.

When BSP\_PSW\_2 is pushed down, the interval sensor becomes active. Then, the mode transits to Normal mode.

BSP\_LED\_0 turns on in the Normal mode.

### 6.2. Function to Use

The functions to use are as follows.

For the Port assignment of each channel, refer to the MCU user manual.

IP	Channel	Objective
ISD	BSP_ISD_0	Control timing output
PORT	BSP_PSW_2	Switch input
PORT	BSP_LED_0	LED control
	BSP_LED_2	LED control

### 6.3. Interrupt to Use

Interrupt	Outlines
ISD Interrupt	ISD interrupt

### 6.4. Configuration

Nothing.

### 6.5. Example of Terminal Emulator Output

Nothing.

## 7. Revision History

Revision	Date	Description
1.0	2021-10-29	First release

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