

# **LED Driver**

## **LOW LEVEL DESGIN Document**

**Version: 1<sup>st</sup>**

**Date: 26/10/2023**

# 1.API specification

## 1.1 Type definitions

Name:	G_button_state
Type:	uint8
Description:	Variable which return the state of button

Name:	BUTTON_config_t
Type:	Struct
Element:	DIO_PIN_ID pin_id; DIO_PORT_ID port_id; DIO_PIN_DIRECTION_TYPE pin_direction,;
Description:	Type definition for a Button configuration

## 2. Function definitions

Service name:	HAL_BUTTON_init
Syntax:	HAL_BUTTON_init(BUTTON_config_t *button_config)
Parameters (in):	BUTTON_config_t *button_config
Parameters (in/out):	None

Parameters (out):	None
Return value:	None
Description:	Set the BUTTON configuration structure as input
NUM:	1

Service name:	HAL_BUTTON_getState
Syntax:	HAL_BUTTON_getState(Button_PORT,Button_PIN)
Parameters (in):	Button_PORT,Button_PIN
Parameters (in/out):	None
Parameters (out):	None
Return value:	G_button_state   it's a uint8 which return the button pressed or relese
Description:	return the button state pressed or relese
NUM:	2