LED Drivers

LOW LEVEL DESGIN Document

Version: 1st   **Date: 26/10/2023**

1. API specification

1.1 Type definitions

Name:	LED_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 LED configuration

2. Function definitions

Service name:	HAL_LED_init
Syntax:	HAL_LED_init (LED_config_t*Led_config)
Parameters (in):	LED_config_t*Led_config
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	Set the LED configuration structure as output.
Requirements:	[LED_001]

Service name:	HAL_LED_seton()
Syntax:	HAL_LED_setOn ();
Parameters (in):	NONE
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	Turn on LED
Requirements:	[LED_003]

Service name:	**HAL_LED_setoff()**
Syntax:	HAL_LED_setOff ();
Parameters (in):	NONE
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	Turn off LED
Requirements:	[LED_003]

Service name:	**HAL_LED_Toggle**
Syntax:	HAL_LED_toggle();
Parameters (in):	NONE
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	Turn Toggle LED
Requirements:	[LED_003]