

LED Driver

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: | Fill the LED configuration structure |
| NUM: | 1 |

| | |
|----------------------|-------------------|
| 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 |
| NUM: | 3 |

| | |
|----------------------|--------------------|
| 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 |
| NUM: | 3 |

| | |
|----------------------|-------------------|
| Service name: | HAL_LED_Toggle |
| Syntax: | HAL_LED_toggle(); |
| Parameters (in): | None |
| Parameters (in/out): | None |
| Parameters (out): | None |
| Return value: | None |
| Description: | Toggle LED Status |
| NUM: | 3 |