

## 1. Description

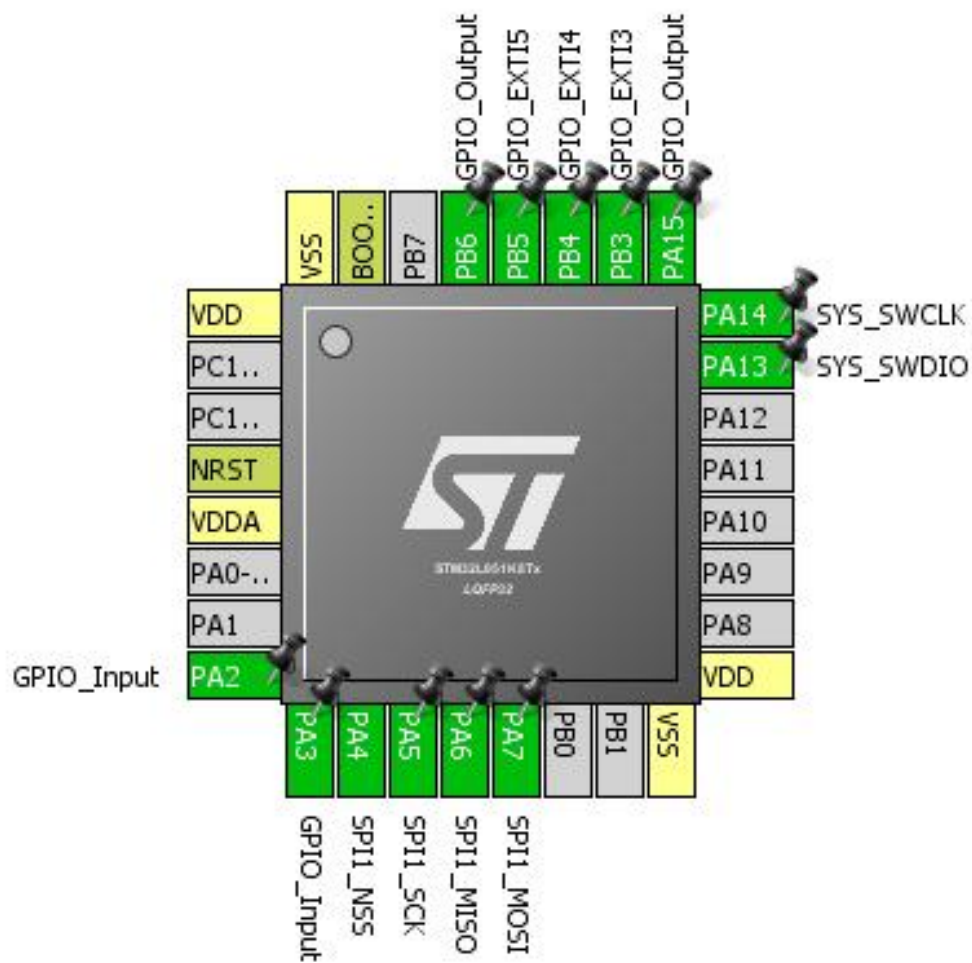
### 1.1. Project

|                 |                    |
|-----------------|--------------------|
| Project Name    | kittchen_remote_L0 |
| Generated with: | STM32CubeMX 4.3.1  |
| Date            | 01/20/2015         |

### 1.2. MCU

|                |               |
|----------------|---------------|
| MCU Serie      | STM32L0       |
| MCU Line       | STM32L0x1     |
| MCU name       | STM32L051K8Tx |
| MCU Package    | LQFP32        |
| MCU Pin number | 32            |

## 2. Pinout Configuration



### ***3. IPs and Middlewares Configuration***

| IP   | Mode                        | Fonction  | Pin  |
|------|-----------------------------|-----------|------|
| SPI1 | Mode:<br>Full-Duplex Master | SPI1_MISO | PA6  |
|      |                             | SPI1_MOSI | PA7  |
|      |                             | SPI1_SCK  | PA5  |
|      | Hardware NSS Signal         | SPI1_NSS  | PA4  |
| SYS  | Serial Wire Debug (SWD)     | SYS_SWCLK | PA14 |
|      |                             | SYS_SWDIO | PA13 |

## 4. Pins Configuration

| Pin    | Pos | Function(s) | Label |
|--------|-----|-------------|-------|
| PA2 *  | 8   | GPIO_Input  |       |
| PA3 *  | 9   | GPIO_Input  |       |
| PA4    | 10  | SPI1_NSS    |       |
| PA5    | 11  | SPI1_SCK    |       |
| PA6    | 12  | SPI1_MISO   |       |
| PA7    | 13  | SPI1_MOSI   |       |
| PA13   | 23  | SYS_SWDIO   |       |
| PA14   | 24  | SYS_SWCLK   |       |
| PA15 * | 25  | GPIO_Output |       |
| PB3    | 26  | GPIO_EXTI3  |       |
| PB4    | 27  | GPIO_EXTI4  |       |
| PB5    | 28  | GPIO_EXTI5  |       |
| PB6 *  | 29  | GPIO_Output |       |

\* The pin is affected with an I/O function

## 5. Power Plugin report

### 5.1. Microcontroller Selection

|           |               |
|-----------|---------------|
| Serie     | STM32L0       |
| Line      | STM32L0x1     |
| MCU       | STM32L051K8Tx |
| Datasheet | 025938_Rev2   |

### 5.2. Parameter Selection

|             |      |
|-------------|------|
| Temperature | 25   |
| Vdd         | null |

### 5.3. Battery Selection

|                   |             |
|-------------------|-------------|
| Battery           | Not set     |
| Capacity          | 0.0 mAh     |
| Self discharge    | 0.0 %/month |
| Nominal voltage   | 0.0 V       |
| Max Cont Current  | 0.0 mA      |
| Max Pulse Current | 0.0 mA      |
| Cells in series   | 1           |
| Cells in parallel | 1           |

## 6. Software Project

### 6.1. Project Settings

| Name                              | Value  |
|-----------------------------------|--|
| Project Name                      | kittchen_remote_L0   |
| Project Folder                    | D:\DB\Dropbox\Development\24ghz_kuechenbeleuchtung_steuerung |
| Toolchain / IDE                   | TrueSTUDIO 5.0   |
| Firmware Package Name and Version | STM32Cube FW_L0 V1.1.0                                       |

### 6.2. Code Generation Settings

| Name  | Value   |
|---|---|
| STM32Cube Firmware Library Package                              | Copy all used libraries into the project folder |
| Generate peripheral initialization as a pair of '.c/.h' files   | No  |
| Backup previously generated files when re-generating            | No  |
| Delete previously generated files when not re-generated         | Yes   |
| Set all free pins as analog (to optimize the power consumption) | No  |

### 6.3. Toolchains Settings

| Name                   | Value               |
|------------------------|---------------------|
| Compiler Optimizations | Balanced Size/Speed |