

## ***1. Description***

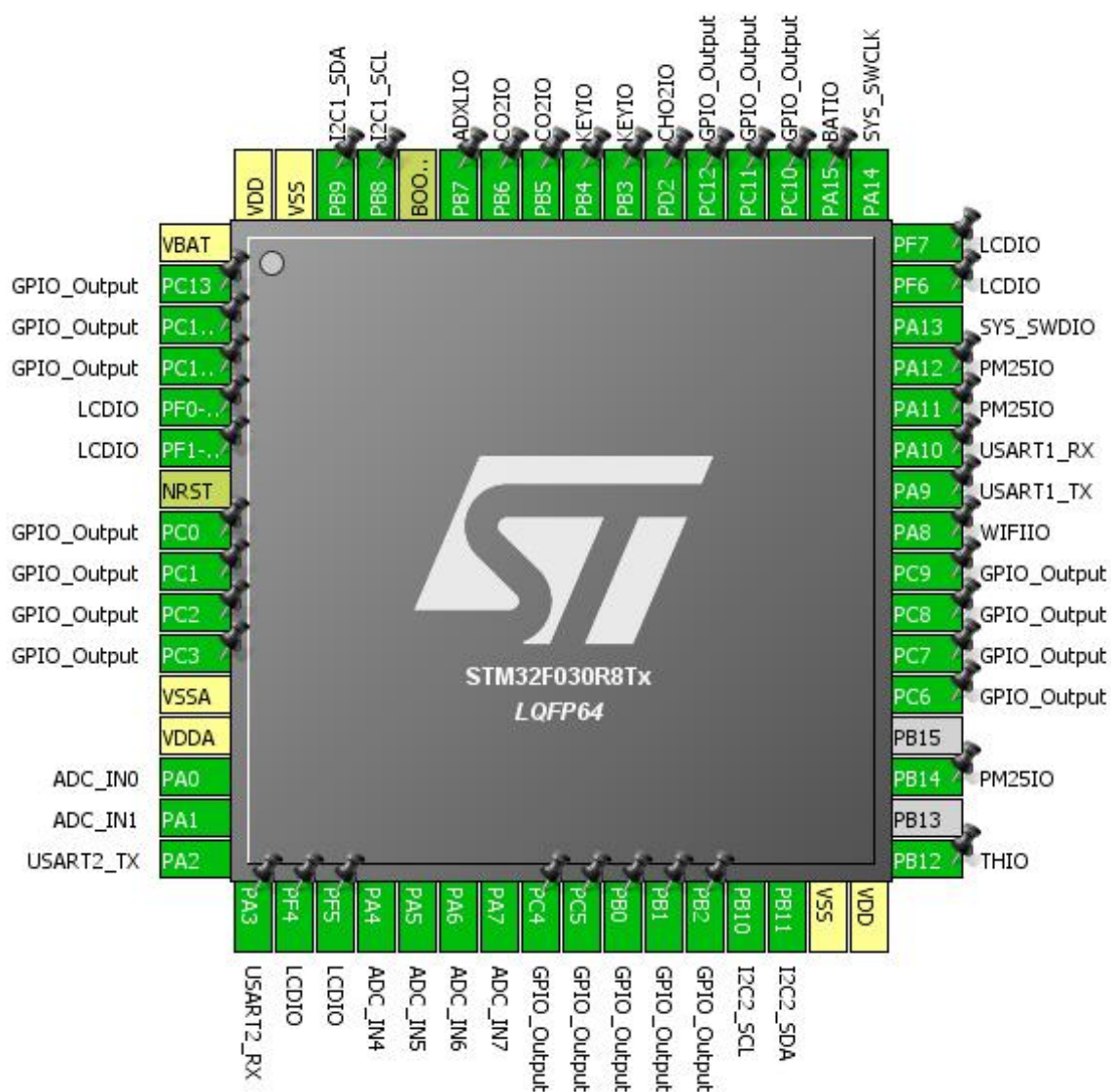
### 1.1. Project

Project Name	idea
Generated with:	STM32CubeMX 4.3.0
Date	04/21/2015

### 1.2. MCU

MCU Serie	STM32F0
MCU Line	STM32F030 Value Line
MCU name	STM32F030R8Tx
MCU Package	LQFP64
MCU Pin number	64

## 2. Pinout Configuration



### 3. IPs and Middlewares Configuration

IP	Mode	Fonction	Pin
ADC	IN0	ADC_IN0	PA0
	IN1	ADC_IN1	PA1
	IN4	ADC_IN4	PA4
	IN5	ADC_IN5	PA5
	IN6	ADC_IN6	PA6
	IN7	ADC_IN7	PA7
I2C1	I2C: I2C	I2C1_SCL	PB8
		I2C1_SDA	PB9
I2C2	I2C	I2C2_SCL	PB10
		I2C2_SDA	PB11
SYS	Serial-WireDebug	SYS_SWCLK	PA14
		SYS_SWDIO	PA13
USART1	Mode: Asynchronous	USART1_RX	PA10
		USART1_TX	PA9
USART2	Mode: Asynchronous	USART2_RX	PA3
		USART2_TX	PA2

## 4. Pins Configuration

Pin	Pos	Function(s)	Label
PC13 *	2	GPIO_Output	
PC14-OSC32_IN *	3	GPIO_Output	
PC15-OSC32_OUT *	4	GPIO_Output	
PF0-OSC_IN *	5	GPIO_Output	LCDIO
PF1-OSC_OUT *	6	GPIO_Output	LCDIO
PC0 *	8	GPIO_Output	
PC1 *	9	GPIO_Output	
PC2 *	10	GPIO_Output	
PC3 *	11	GPIO_Output	
PA0	14	ADC_IN0	
PA1	15	ADC_IN1	
PA2	16	USART2_TX	
PA3	17	USART2_RX	
PF4 *	18	GPIO_Output	LCDIO
PF5 *	19	GPIO_Output	LCDIO
PA4	20	ADC_IN4	
PA5	21	ADC_IN5	
PA6	22	ADC_IN6	
PA7	23	ADC_IN7	
PC4 *	24	GPIO_Output	
PC5 *	25	GPIO_Output	
PB0 *	26	GPIO_Output	
PB1 *	27	GPIO_Output	
PB2 *	28	GPIO_Output	
PB10	29	I2C2_SCL	
PB11	30	I2C2_SDA	
PB12 *	33	GPIO_Output	THIO
PB14 *	35	GPIO_Output	PM25IO
PC6 *	37	GPIO_Output	
PC7 *	38	GPIO_Output	
PC8 *	39	GPIO_Output	
PC9 *	40	GPIO_Output	
PA8 *	41	GPIO_Output	WIFIIO
PA9	42	USART1_TX	
PA10	43	USART1_RX	
PA11 *	44	GPIO_Output	PM25IO
PA12 *	45	GPIO_Output	PM25IO
PA13	46	SYS_SWDIO	
PF6 *	47	GPIO_Output	LCDIO

Pin	Pos	Function(s)	Label
PF7 *	48	GPIO_Output	LCDIO
PA14	49	SYS_SWCLK	
PA15 *	50	GPIO_Output	BATIO
PC10 *	51	GPIO_Output	
PC11 *	52	GPIO_Output	
PC12 *	53	GPIO_Output	
PD2 *	54	GPIO_Output	CHO2IO
PB3 *	55	GPIO_Output	KEYIO
PB4 *	56	GPIO_Output	KEYIO
PB5 *	57	GPIO_Output	CO2IO
PB6 *	58	GPIO_Input	CO2IO
PB7 *	59	GPIO_Output	ADXLIO
PB8	61	I2C1_SCL	
PB9	62	I2C1_SDA	

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

## 5. Power Plugin report

### 5.1. Microcontroller Selection

Serie	STM32F0
Line	STM32F030 Value Line
MCU	STM32F030R8Tx
Datasheet	024849_Rev1

### 5.2. Parameter Selection

Temperature	25
Vdd	3.6

### 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	idea
Project Folder	E:\STM32Project\M2
Toolchain / IDE	
Firmware Package Name and Version	

### 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