# 1. Description

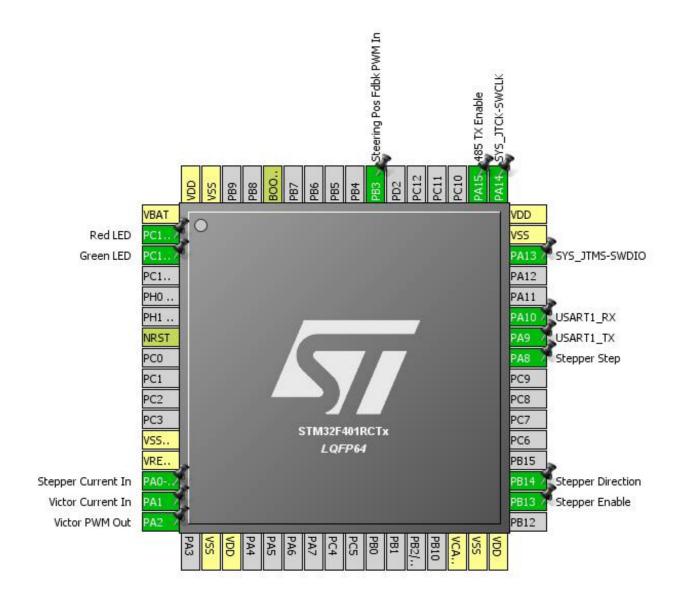
#### 1.1. Project

Project Name	Wheel Pod STM32F401RCT6
Generated with:	STM32CubeMX 4.5.0
Date	04/10/2015

#### 1.2. MCU

MCU Serie	STM32F4
MCU Line	STM32F401
MCU name	STM32F401RCTx
MCU Package	LQFP64
MCU Pin number	64

### 2. Pinout Configuration



# 3. IPs and Middlewares Configuration

IP	Mode	Fonction	Pin
	INO	ADC1_IN0	PA0-WKUP
ADC1	IN1	ADC1_IN1	PA1
2.72	Debug:	SYS_JTCK-SWCLK	PA14
SYS	Serial Wire Debug (SWD)	SYS_JTMS-SWDIO	PA13
TIM1	Channel1: PWM Generation CH1	TIM1_CH1	PA8
TIM2	Channel2: Input Capture direct mode	TIM2_CH2	PB3
TIM5	Channel3: PWM Generation CH3	TIM5_CH3	PA2
USART1	Mode:	USART1_RX	PA10
	Asynchronous	USART1_TX	PA9

# 4. Pins Configuration

Pin	Pos	Function(s)	Label
PC13-ANTI_TAMP *	2	GPIO_Output	Red LED
PC14-OSC32_IN *	3	GPIO_Output	Green LED
PA0-WKUP	14	ADC1_IN0	Stepper Current In
PA1	15	ADC1_IN1	Victor Current In
PA2	16	TIM5_CH3	Victor PWM Out
PB13 *	34	GPIO_Output	Stepper Enable
PB14 *	35	GPIO_Output	Stepper Direction
PA8	41	TIM1_CH1	Stepper Step
PA9	42	USART1_TX	
PA10	43	USART1_RX	
PA13	46	SYS_JTMS-SWDIO	
PA14	49	SYS_JTCK-SWCLK	
PA15 *	50	GPIO_Output	485 TX Enable
PB3	55	TIM2_CH2	Steering Pos Fdbk PWM In

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

### 5. Power Plugin report

#### 5.1. Microcontroller Selection

Serie	STM32F4
Line	STM32F401
MCU	STM32F401RCTx
Datasheet	024738_Rev4

#### 5.2. Parameter Selection

Temperature	25
Vdd	null