

1. Description

1.1. Project

Project Name	Aircopter_V1_Demo_Poj
Generated with:	STM32CubeMX 4.7.0
Date	04/09/2015

1.2. MCU

MCU Serie	STM32F3
MCU Line	STM32F373
MCU name	STM32F373RCTx
MCU Package	LQFP64
MCU Pin number	64

3. IPs and Middlewares Configuration

IP	Mode	Fonction	Pin
I2C2	I2C: I2C	I2C2_SCL	PF6
		I2C2_SDA	PF7
SYS	Debug: Serial Wire	SYS_JTCK-SWCLK	PA14
		SYS_JTMS-SWDIO	PA13
TIM2	Clock Source : Internal Clock	N/A	N/A
	Channel1: PWM Generation CH1	TIM2_CH1	PA0
	Channel2: PWM Generation CH2	TIM2_CH2	PA1
	Channel3: PWM Generation CH3	TIM2_CH3	PA2
	Channel4: PWM Generation CH4	TIM2_CH4	PA3
USART1	Mode: Asynchronous	USART1_RX	PA10
		USART1_TX	PA9
USART3	Mode: Asynchronous	USART3_RX	PC11
		USART3_TX	PC10

MiddleWare	Mode
FREERTOS	Enabled

4. Pins Configuration

Pin	Pos	Function(s)	Label
PA0	14	TIM2_CH1	
PA1	15	TIM2_CH2	
PA2	16	TIM2_CH3	
PA3	18	TIM2_CH4	
PA4 *	20	GPIO_Output	LED_RED
PA5 *	21	GPIO_Output	LED_GREEN
PA6 *	22	GPIO_Output	LED_BLUE
PB0 *	26	GPIO_Output	LED_STATUE
PA9	42	USART1_TX	
PA10	43	USART1_RX	
PA13	46	SYS_JTMS-SWDIO	
PF6	47	I2C2_SCL	
PF7	48	I2C2_SDA	
PA14	49	SYS_JTCK-SWCLK	
PC10	51	USART3_TX	
PC11	52	USART3_RX	
PC12 *	53	GPIO_Output	BLE_RES
PD2 *	54	GPIO_Output	BLE_EN
PB5 *	57	GPIO_Output	BLE_MODE
PB6 *	58	GPIO_Output	BLE_BRTS

* The pin is affected with an I/O function

5. Power Plugin report

5.1. Microcontroller Selection

Serie	STM32F3
Line	STM32F373
MCU	STM32F373RCTx
Datasheet	022691_Rev5

5.2. Parameter Selection

Temperature	25
Vdd	3.6

6. Software Project

6.1. Project Settings

Name	Value
Project Name	Aircopter_V1_Demo_Poj
Project Folder	D:\project\Aircopter_V1_Demo\Aircopter_V1_Demo_Poj
Toolchain / IDE	EWARM
Firmware Package Name and Version	STM32Cube FW_F3 V1.1.1

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	Yes
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)	Yes

6.3. Toolchains Settings

Name	Value
Compiler Optimizations	Balanced Size/Speed