1. Description

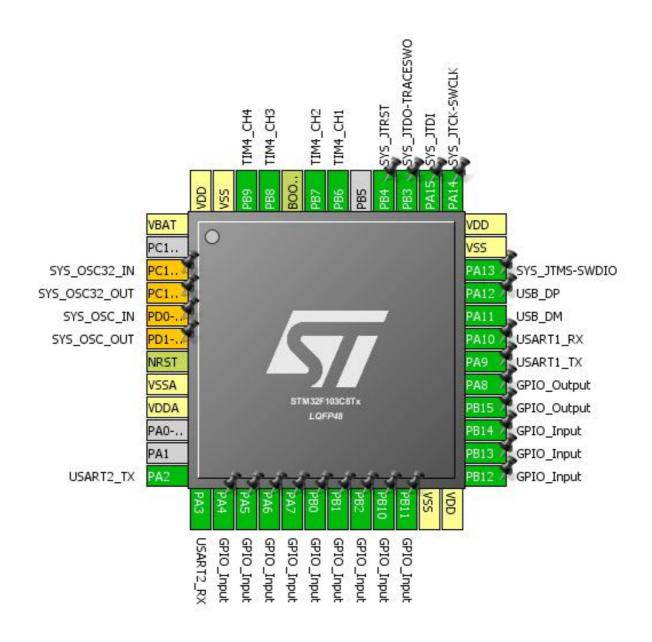
1.1. Project

Project Name	UAVRC_stm32f103c8t6
Generated with:	STM32CubeMX 4.4.0
Date	04/06/2015

1.2. MCU

MCU Serie	STM32F1
MCU Line	STM32F103
MCU name	STM32F103C8Tx
MCU Package	LQFP48
MCU Pin number	48

2. Pinout Configuration



3. IPs and Middlewares Configuration

IP	Mode Fonction		Pin
		SYS_JTCK-SWCLK	PA14
	Debug:	SYS_JTDI	PA15
SYS		SYS_JTDO-TRACESWO	PB3
	JTAG(5-pin)	SYS_JTMS-SWDIO	PA13
		SYS_JTRST	PB4
TIM4		TIM4_CH1	PB6
	Mode: PWM-Generation	TIM4_CH2	PB7
		TIM4_CH3	PB8
		TIM4_CH4	PB9
	Mode:	USART1_RX	PA10
USART1	Asynchronous	USART1_TX	PA9
USART2	Mode:	USART2_RX	PA3
	Asynchronous	USART2_TX	PA2
USB	5 (50)	USB_DM	PA11
	Device (FS)	USB_DP	PA12

4. Pins Configuration

PC14-OSC32 IN * 3 SYS_OSC32 IN PC15-OSC32_OUT * 4 SYS_OSC32_OUT PD0-OSC_IN * 5 SYS_OSC_IN PD1-OSC_OUT * 6 SYS_OSC_OUT PA2						
PC15-OSC32_OUT	Pin	Pos	Function(s)	Label		
PDO-OSC_IN	PC14-OSC32_IN *	3				
PD1-OSC_OUT	PC15-OSC32_OUT *	4	SYS_OSC32_OUT			
PA2 12 USART2_TX PA3 13 USART2_RX PA4** 14 GPIO_Input PA5** 15 GPIO_Input PA6** 16 GPIO_Input PA7** 17 GPIO_Input PB0** 18 GPIO_Input PB1** 19 GPIO_Input PB1** 20 GPIO_Input PB10** 21 GPIO_Input PB11** 22 GPIO_Input PB11** 22 GPIO_Input PB13** 26 GPIO_Input PB14** 27 GPIO_Input PB14** 27 GPIO_Input PB14** 27 GPIO_Input PB15** 28 GPIO_Output PA8 ** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA15 38 SYS_JTDI PB3 39 SYS_JTO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PD0-OSC_IN *	5	SYS_OSC_IN			
PA3 13 USART2_RX PA4** 14 GPIO_input PA5** 15 GPIO_input PA6** 16 GPIO_input PA7** 17 GPIO_input PB0 ** 18 GPIO_input PB1** 19 GPIO_input PB1** 20 GPIO_input PB1** 21 GPIO_input PB1** 22 GPIO_input PB1** 22 GPIO_input PB11** 22 GPIO_input PB11** 25 GPIO_input PB13** 26 GPIO_input PB13** 26 GPIO_input PB14** 27 GPIO_input PB15** 28 GPIO_output PA8** 29 GPIO_output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PD1-OSC_OUT *	6	SYS_OSC_OUT			
PA4** 14 GPIO_Input PA5** 15 GPIO_Input PA6** 16 GPIO_Input PA7** 17 GPIO_Input PB0** 18 GPIO_Input PB1** 19 GPIO_Input PB2** 20 GPIO_Input PB10** 21 GPIO_Input PB11** 22 GPIO_Input PB11** 25 GPIO_Input PB13** 26 GPIO_Input PB13** 26 GPIO_Input PB14** 27 GPIO_Input PB15** 28 GPIO_Output PA8** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTIMS-SWDIO PA15 38 SYS_JTDI PB3 39 SYS_JTON-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1	PA2	12	USART2_TX			
PA5** 15 GPIO_Input PA6*** 16 GPIO_Input PA7*** 17 GPIO_Input PB0*** 18 GPIO_Input PB1*** 19 GPIO_Input PB2*** 20 GPIO_Input PB10*** 21 GPIO_Input PB11*** 22 GPIO_Input PB12*** 25 GPIO_Input PB13*** 26 GPIO_Input PB14*** 27 GPIO_Input PB15*** 28 GPIO_Output PA8*** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DM PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA3	13	USART2_RX			
PA6 ** 16 GPIO Input PA7 ** 17 GPIO Input PB0 ** 18 GPIO Input PB1 ** 19 GPIO Input PB2 ** 20 GPIO Input PB10 ** 21 GPIO Input PB11 ** 22 GPIO Input PB12 ** 25 GPIO Input PB13 ** 26 GPIO Input PB14 ** 27 GPIO Output PB15 ** 28 GPIO Output PA8 ** 29 GPIO Output PA9 30 USART1_TX PA11 32 USB_DM PA12 33 USB_DM PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1	PA4 **	14	GPIO_Input			
PA7 **	PA5 **	15	GPIO_Input			
PB0 ** 18 GPIO_Input PB1 ** 19 GPIO_Input PB2 ** 20 GPIO_Input PB10 ** 21 GPIO_Input PB11 ** 22 GPIO_Input PB12 ** 25 GPIO_Input PB13 ** 26 GPIO_Input PB14 ** 27 GPIO_Input PB15 ** 28 GPIO_Output PA8 ** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA6 **	16	GPIO_Input			
PB1 ** 19 GPIO_Input PB2 ** 20 GPIO_Input PB10 ** 21 GPIO_Input PB11 ** 22 GPIO_Input PB11 ** 25 GPIO_Input PB13 ** 26 GPIO_Input PB14 ** 27 GPIO_Input PB15 ** 28 GPIO_Output PA8 ** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA7 **	17	GPIO_Input			
PB2 ** 20 GPIO_Input PB10 ** 21 GPIO_Input PB11 ** 22 GPIO_Input PB12 ** 25 GPIO_Input PB13 ** 26 GPIO_Input PB14 ** 27 GPIO_Output PB15 ** 28 GPIO_Output PA8 ** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB0 **	18	GPIO_Input			
PB10 ** 21 GPIO_Input PB11 ** 22 GPIO_Input PB12 ** 25 GPIO_Input PB13 ** 26 GPIO_Input PB14 ** 27 GPIO_Input PB15 ** 28 GPIO_Output PA8 ** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB1 **	19	GPIO_Input			
PB11*** 22 GPIO_Input PB12*** 25 GPIO_Input PB13*** 26 GPIO_Input PB14*** 27 GPIO_Input PB15*** 28 GPIO_Output PA8 *** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB2 **	20	GPIO_Input			
PB12 *** 25 GPIO_Input PB13 *** 26 GPIO_Input PB14 *** 27 GPIO_Input PB15 *** 28 GPIO_Output PA8 *** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB10 **	21	GPIO_Input			
PB13 ** 26 GPIO_Input PB14 *** 27 GPIO_Input PB15 ** 28 GPIO_Output PA8 *** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB11 **	22	GPIO_Input			
PB14 *** 27 GPIO_Input PB15 *** 28 GPIO_Output PA8 *** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB12 **	25				
PB15 *** 28 GPIO_Output PA8 *** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB13 **	26	GPIO_Input			
PA8 ** 29 GPIO_Output PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB14 **	27	GPIO_Input			
PA9 30 USART1_TX PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB15 **	28	GPIO_Output			
PA10 31 USART1_RX PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA8 **	29	GPIO_Output			
PA11 32 USB_DM PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA9	30	USART1_TX			
PA12 33 USB_DP PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA10	31	USART1_RX			
PA13 34 SYS_JTMS-SWDIO PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA11	32	USB_DM			
PA14 37 SYS_JTCK-SWCLK PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA12	33	USB_DP			
PA15 38 SYS_JTDI PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA13	34				
PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PA14	37	SYS_JTCK-SWCLK			
PB3 39 SYS_JTDO-TRACESWO PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2		38				
PB4 40 SYS_JTRST PB6 42 TIM4_CH1 PB7 43 TIM4_CH2	PB3	39				
PB6 42 TIM4_CH1 PB7 43 TIM4_CH2		40				
PB7 43 TIM4_CH2	PB6					
	PB8					
	PB9					

^{**} The pin is affected with an I/O function

^{*} The pin is affected with a peripheral function but no peripheral mode is activated

	11017	DC 0tm20f4	Daolte Drainat	
	UAV	KU_SIIII3ZITI	03c8t6 Project	
5 Power Plu	ain ronor	4		
5. Power Plu	giri report	l.		