1. Description

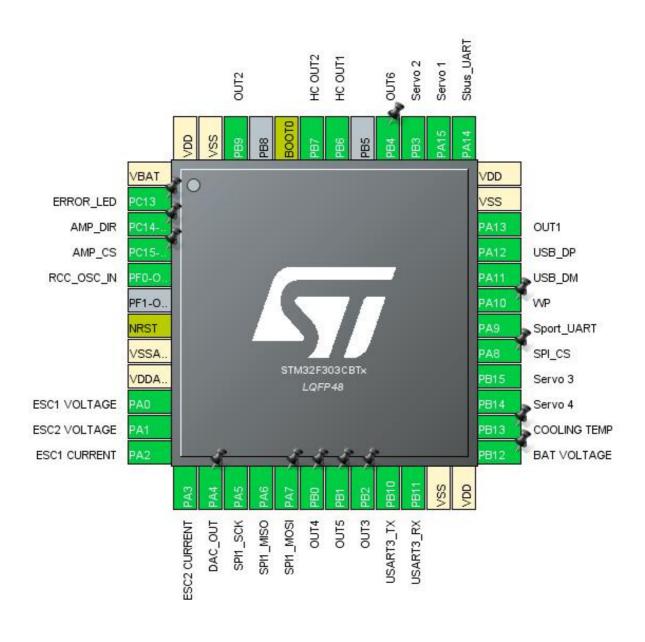
1.1. Project

Project Name	RCtelemery
Board Name	custom
Generated with:	STM32CubeMX 5.2.0
Date	05/27/2019

1.2. MCU

MCU Series	STM32F3
MCU Line	STM32F303
MCU name	STM32F303CBTx
MCU Package	LQFP48
MCU Pin number	48

2. Pinout Configuration



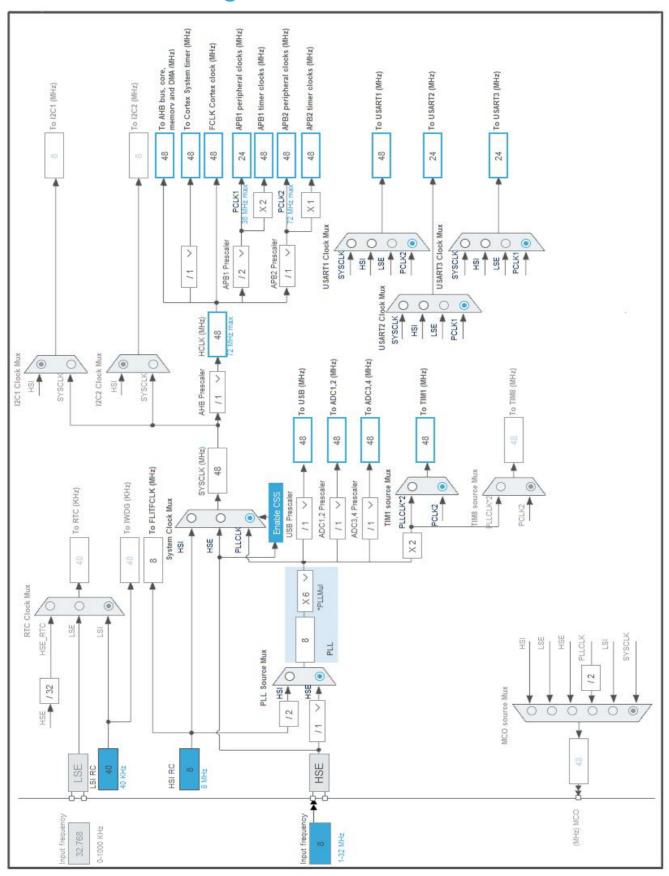
3. Pins Configuration

D: N	D: N	D: T	A.1.	
Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP48	(function after		Function(s)	
	reset)			
1	VBAT	Power		
2	PC13 *	I/O	GPIO_Output	ERROR_LED
3	PC14-OSC32_IN *	I/O	GPIO_Output	AMP_DIR
4	PC15-OSC32_OUT *	I/O	GPIO_Output	AMP_CS
5	PF0-OSC_IN	I/O	RCC_OSC_IN	
7	NRST	Reset		
8	VSSA/VREF-	Power		
9	VDDA/VREF+	Power		
10	PA0	I/O	ADC1_IN1	ESC1 VOLTAGE
11	PA1	I/O	ADC1_IN2	ESC2 VOLTAGE
12	PA2	I/O	ADC1_IN3	ESC1 CURRENT
13	PA3	I/O	ADC1_IN4	ESC2 CURRENT
14	PA4	I/O	DAC_OUT1	DAC_OUT
15	PA5	I/O	SPI1_SCK	
16	PA6	I/O	SPI1_MISO	
17	PA7	I/O	SPI1_MOSI	
18	PB0 *	I/O	GPIO_Output	OUT4
19	PB1 *	I/O	GPIO_Output	OUT5
20	PB2 *	I/O	GPIO_Output	OUT3
21	PB10	I/O	USART3_TX	
22	PB11	I/O	USART3_RX	
23	VSS	Power		
24	VDD	Power		
25	PB12	I/O	ADC4_IN3	BAT VOLTAGE
26	PB13	I/O	ADC3_IN5	COOLING TEMP
27	PB14	I/O	TIM15_CH1	Servo 4
28	PB15	I/O	TIM15_CH2	Servo 3
29	PA8 *	I/O	GPIO_Output	SPI_CS
30	PA9	I/O	USART1_TX	Sport_UART
31	PA10 *	I/O	GPIO_Output	WP
32	PA11	I/O	USB_DM	
33	PA12	I/O	USB_DP	
34	PA13	I/O	TIM4_CH3	OUT1
35	VSS	Power		
36	VDD	Power		
37	PA14	I/O	USART2_TX	Sbus_UART

Pin Number LQFP48	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
38	PA15	I/O	TIM2_CH1	Servo 1
39	PB3	I/O	TIM2_CH2	Servo 2
40	PB4 *	I/O	GPIO_Output	OUT6
42	PB6	I/O	TIM4_CH1	HC OUT1
43	PB7	I/O	TIM4_CH2	HC OUT2
44	воото	Boot		
46	PB9	I/O	TIM4_CH4	OUT2
47	VSS	Power		
48	VDD	Power		

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

4. Clock Tree Configuration



5. Software Project

5.1. Project Settings

Name	Value
Project Name	RCtelemery
Project Folder	D:\Files\GIT\rctelemetry\sw\workspace_1.0.0
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_F3 V1.10.0

5.2. Code Generation Settings

Name	Value
STM32Cube Firmware Library Package	Copy only the necessary library files
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	No
consumption)	

6. Power Consumption Calculator report

6.1. Microcontroller Selection

Series	STM32F3
Line	STM32F303
мси	STM32F303CBTx
Datasheet	023353_Rev13

6.2. Parameter Selection

Temperature	25
Vdd	3.6

7. IPs and Middleware Configuration 7.1. ADC1

IN1: IN1 Single-ended IN2: IN2 Single-ended IN3: IN3 Single-ended

mode: IN4

7.1.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler ADC Asynchronous clock mode

Resolution

Data Alignment

Scan Conversion Mode

Continuous Conversion Mode

Discontinuous Conversion Mode

ADC 12-bit resolution

Right alignment

Enabled

Enabled

*

Discontinuous Conversion Mode

Disabled

Discontinuous Conversion Mode Disabled

DMA Continuous Requests Disabled

End Of Conversion Selection End of single conversion

Overrun behaviour Overrun data overwritten

Low Power Auto Wait Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions Enable

Number Of Conversion 4 *

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None Rank 1

Channel 4 *

Sampling Time 1.5 Cycles
Offset Number No offset
Offset 0

<u>Rank</u> 2 *

ChannelChannel 1Sampling Time1.5 CyclesOffset NumberNo offsetOffset0

Rank 3 *

Channel Channel 1
Sampling Time 1.5 Cycles

Offset Number No offset

Offset 0

<u>Rank</u> **4** *

Channel Channel 1
Sampling Time 1.5 Cycles
Offset Number No offset
Offset 0

ADC_Injected_ConversionMode:

Enable Injected Conversions Enable
Number Of Conversions 0

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

7.2. ADC3

mode: IN5

7.2.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler ADC Asynchronous clock mode

Resolution ADC 12-bit resolution

Data Alignment Right alignment

Scan Conversion Mode Disabled
Continuous Conversion Mode Disabled
Discontinuous Conversion Mode Disabled
DMA Continuous Requests Disabled

End Of Conversion Selection End of single conversion

Overrun behaviour Overrun data overwritten

Low Power Auto Wait Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions Enable

Number Of Conversion 1

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None

Rank 1

ChannelChannel 5Sampling Time1.5 CyclesOffset NumberNo offset

Offset 0

ADC_Injected_ConversionMode:

Enable Injected Conversions Enable

Number Of Conversions 0

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

7.3. ADC4

IN3: IN3 Single-ended

7.3.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler ADC Asynchronous clock mode

Resolution ADC 12-bit resolution

Data Alignment Right alignment

Scan Conversion Mode Disabled
Continuous Conversion Mode Disabled
Discontinuous Conversion Mode Disabled
DMA Continuous Requests Disabled

End Of Conversion Selection End of single conversion

Overrun behaviour Overrun data overwritten

Low Power Auto Wait Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions Enable

Number Of Conversion 1

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None Rank 1

Channel 3

Sampling Time 1.5 Cycles
Offset Number No offset

Offset 0

ADC_Injected_ConversionMode:

Enable Injected Conversions Enable
Number Of Conversions 0

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

7.4. CRC

mode: Activated

7.4.1. Parameter Settings:

Basic Parameters:

Default Polynomial State Enable
Default Init Value State Enable

Advanced Parameters:

Input Data Inversion Mode None
Output Data Inversion Mode Disable
Input Data Format Bytes

7.5. DAC

mode: OUT1 Configuration 7.5.1. Parameter Settings:

DAC Out1 Settings:

Output Buffer Enable

Trigger Out event *

Wave generation mode Disabled

7.6. RCC

High Speed Clock (HSE): BYPASS Clock Source

7.6.1. Parameter Settings:

System Parameters:

VDD voltage (V) 3.3
Prefetch Buffer Enabled

Flash Latency(WS) 1 WS (2 CPU cycle)

RCC Parameters:

HSI Calibration Value 16
HSE Startup Timout Value (ms) 100
LSE Startup Timout Value (ms) 5000

7.7. SPI1

Mode: Full-Duplex Master 7.7.1. Parameter Settings:

Basic Parameters:

Frame Format Motorola

Data Size 8 Bits *

First Bit MSB First

Clock Parameters:

Prescaler (for Baud Rate) 4 *

Baud Rate 12.0 MBits/s *

Clock Polarity (CPOL) Low
Clock Phase (CPHA) 1 Edge

Advanced Parameters:

CRC Calculation Disabled

NSSP Mode Enabled

NSS Signal Type Software

7.8. SYS

Timebase Source: TIM7

7.9. TIM1

Clock Source : Internal Clock

7.9.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 0

Internal Clock Division (CKD) No Division

Repetition Counter (RCR - 16 bits value) 0
auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Reset (UG bit from TIMx_EGR)

Trigger Event Selection TRGO2 Reset (UG bit from TIMx_EGR)

7.10. TIM2

Clock Source: Internal Clock
Channel1: Output Compare CH1
Channel2: Output Compare CH2

7.10.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 24000 *

Counter Mode Up

Counter Period (AutoReload Register - 32 bits value) 2000 *

Internal Clock Division (CKD) No Division auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit)

Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Update Event *

Clear Input:

Clear Input Source Disable

Output Compare Channel 1:

Mode Active Level on match *

Pulse (32 bits value) 0
CH Polarity High

Output Compare Channel 2:

Mode Active Level on match *

Pulse (32 bits value) 0
CH Polarity High

7.11. TIM3

Clock Source: Internal Clock 7.11.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0
Counter Mode Up
Counter Period (AutoReload Register - 16 bits value) 0

Internal Clock Division (CKD)

auto-reload preload

Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit)

Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Reset (UG bit from TIMx_EGR)

7.12. TIM4

Clock Source: Internal Clock
Channel1: PWM Generation CH1
Channel2: PWM Generation CH2
Channel3: PWM Generation CH3
Channel4: PWM Generation CH4

7.12.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 48000 *

Counter Mode Up
Counter Period (AutoReload Register - 16 bits value) 0

Internal Clock Division (CKD)

auto-reload preload

No Division

Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Reset (UG bit from TIMx_EGR)

Clear Input:

Clear Input Source Disable

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 0

Fast Mode Disable CH Polarity High

PWM Generation Channel 2:

Mode PWM mode 1

Pulse (16 bits value) 0
Fast Mode Disable
CH Polarity High

PWM Generation Channel 3:

Mode PWM mode 1

Pulse (16 bits value) 0
Fast Mode Disable
CH Polarity High

PWM Generation Channel 4:

Mode PWM mode 1

Pulse (16 bits value) 0
Fast Mode Disable
CH Polarity High

7.13. TIM6

mode: Activated

7.13.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 1 *

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 64535 *

auto-reload preload Enable *

Trigger Output (TRGO) Parameters:

Trigger Event Selection Reset (UG bit from TIMx_EGR)

7.14. TIM15

mode: Clock Source

Channel1: Output Compare CH1 Channel2: Output Compare CH2

7.14.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0
Counter Mode Up
Counter Period (AutoReload Register - 16 bits value) 0

Internal Clock Division (CKD)

No Division

Repetition Counter (RCR - 8 bits value) 0
auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection Reset (UG bit from TIMx_EGR)

Break And Dead Time management - BRK Configuration:

BRK State Disable
BRK Polarity High
BRK Filter (4 bits value) 0

Break And Dead Time management - Output Configuration:

Automatic Output State Disable
Off State Selection for Run Mode (OSSR) Disable
Off State Selection for Idle Mode (OSSI) Disable
Lock Configuration Off

Output Compare Channel 1:

Mode Frozen (used for Timing base)

Pulse (16 bits value) 0
CH Polarity High
CH Idle State Reset

Output Compare Channel 2:

Mode Frozen (used for Timing base)

Pulse (16 bits value) 0
CH Polarity High
CH Idle State Reset

7.15. USART1

Mode: Single Wire (Half-Duplex) 7.15.1. Parameter Settings:

Basic Parameters:

Baud Rate **57600** *

Word Length 8 Bits (including Parity)

Parity Even *
Stop Bits 2 *

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples
Single Sample Disable

Advanced Features:

Auto Baudrate Disable TX Pin Active Level Inversion Enable * **RX Pin Active Level Inversion** Enable * Data Inversion Enable * Disable TX and RX Pins Swapping Overrun Enable DMA on RX Error Enable MSB First Disable

7.16. USART2

Mode: Single Wire (Half-Duplex)

7.16.1. Parameter Settings:

Basic Parameters:

Baud Rate 100000 *

Word Length 8 Bits (including Parity)

Parity Even *
Stop Bits 2 *

Advanced Parameters:

Data Direction Receive Only *

Over Sampling 16 Samples
Single Sample Disable

Advanced Features:

Auto Baudrate Disable

TX Pin Active Level Inversion

RX Pin Active Level Inversion

Data Inversion

Enable *

TX and RX Pins Swapping

Overrun

Disable

DMA on RX Error

MSB First

Disable

Disable

Disable

Disable

7.17. USART3

Mode: Asynchronous

7.17.1. Parameter Settings:

Basic Parameters:

Baud Rate 115200 *

Word Length 8 Bits (including Parity)

Parity None Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples
Single Sample Disable

Advanced Features:

Auto Baudrate Disable TX Pin Active Level Inversion Disable RX Pin Active Level Inversion Disable **Data Inversion** Disable TX and RX Pins Swapping Disable Enable Overrun DMA on RX Error Enable MSB First Disable

7.18. USB

mode: Device (FS)

7.18.1. Parameter Settings:

Basic Parameters:

Speed Full Speed 12MBit/s

Physical interface Internal Phy

Power Parameters:

Low Power Disabled
Battery Charging Disabled

7.19. FREERTOS

Interface: CMSIS_V1

7.19.1. Config parameters:

API:

FreeRTOS API CMSIS v1

Versions:

FreeRTOS version 9.0.0
CMSIS-RTOS version 1.02

Kernel settings:

USE_PREEMPTION Enabled

CPU_CLOCK_HZ SystemCoreClock

TICK_RATE_HZ 1000

MAX_PRIORITIES 7

MINIMAL_STACK_SIZE 128

MAX_TASK_NAME_LEN 16

USE_16_BIT_TICKS Disabled

IDLE_SHOULD_YIELD Enabled

USE_MUTEXES Enabled
USE_RECURSIVE_MUTEXES Disabled
USE_COUNTING_SEMAPHORES Disabled

QUEUE_REGISTRY_SIZE 8

USE_APPLICATION_TASK_TAG Disabled
ENABLE_BACKWARD_COMPATIBILITY Enabled
USE_PORT_OPTIMISED_TASK_SELECTION Enabled
USE_TICKLESS_IDLE Disabled
USE_TASK_NOTIFICATIONS Enabled

Memory management settings:

Memory Allocation Dynamic
TOTAL_HEAP_SIZE 4096 *
Memory Management scheme heap_4

Hook function related definitions:

USE_IDLE_HOOK Disabled
USE_TICK_HOOK Disabled

USE_MALLOC_FAILED_HOOK Disabled
USE_DAEMON_TASK_STARTUP_HOOK Disabled
CHECK_FOR_STACK_OVERFLOW Disabled

Run time and task stats gathering related definitions:

GENERATE_RUN_TIME_STATS Disabled
USE_TRACE_FACILITY Disabled
USE_STATS_FORMATTING_FUNCTIONS Disabled

Co-routine related definitions:

USE_CO_ROUTINES Disabled MAX_CO_ROUTINE_PRIORITIES 2

Software timer definitions:

USE_TIMERS Disabled

Interrupt nesting behaviour configuration:

LIBRARY_LOWEST_INTERRUPT_PRIORITY 15
LIBRARY_MAX_SYSCALL_INTERRUPT_PRIORITY 5

7.19.2. Include parameters:

Include definitions:

vTaskPrioritySet Enabled uxTaskPriorityGet Enabled vTaskDelete Enabled vTaskCleanUpResources Disabled Enabled vTaskSuspend vTaskDelayUntil Disabled vTaskDelay Enabled xTaskGetSchedulerState Enabled xTaskResumeFromISR Enabled xQueueGetMutexHolder Disabled xSemaphoreGetMutexHolder Disabled pcTaskGetTaskName Disabled uxTaskGetStackHighWaterMark Disabled xTaskGetCurrentTaskHandle Disabled eTaskGetState Disabled xEventGroupSetBitFromISR Disabled xTimerPendFunctionCall Disabled xTaskAbortDelay Disabled Disabled xTaskGetHandle

7.20. USB DEVICE

Class For FS IP: Communication Device Class (Virtual Port Com)

7.20.1. Parameter Settings:

Basic Parameters:

USBD_MAX_NUM_INTERFACES (Maximum number of supported interfaces)

USBD_MAX_NUM_CONFIGURATION (Maximum number of supported configuration)

USBD_MAX_STR_DESC_SIZ (Maximum size for the string descriptors)

512

USBD_SUPPORT_USER_STRING (Enable user string descriptor)

Disabled **

Disabled **

USBD_DEBUG_LEVEL (USBD Debug Level) 0: No debug message

Class Parameters:

USB CDC Rx Buffer Size 1000
USB CDC Tx Buffer Size 1000

7.20.2. Device Descriptor:

Device Descriptor:

VID (Vendor IDentifier) 1155

LANGID_STRING (Language Identifier) English(United States)

MANUFACTURER_STRING (Manufacturer Identifier) STMicroelectronics

Device Descriptor FS:

PID (Product IDentifier) 22336

PRODUCT_STRING (Product Identifier) STM32 Virtual ComPort

CONFIGURATION_STRING (Configuration Identifier) CDC Config
INTERFACE_STRING (Interface Identifier) CDC Interface

^{*} User modified value

8. System Configuration

8.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
ADC1	PA0	ADC1 IN1	Analog mode	No pull up pull down	n/a	ESC1 VOLTAGE
	PA1	ADC1_IN2	Analog mode	No pull up pull down	n/a	ESC2 VOLTAGE
	PA2	ADC1_IN3	Analog mode	No pull up pull down	n/a	ESC1 CURRENT
	PA3	ADC1_IN4	Analog mode	No pull up pull down	n/a	ESC2 CURRENT
ADC3	PB13	ADC3_IN5	Analog mode	No pull up pull down	n/a	COOLING TEMP
ADC4	PB12	ADC4_IN3	Analog mode	No pull up pull down	n/a	BAT VOLTAGE
DAC	PA4	DAC_OUT1	Analog mode	No pull up pull down	n/a	DAC_OUT
RCC	PF0-OSC_IN	RCC_OSC_IN	n/a	n/a	n/a	
SPI1	PA5	SPI1_SCK	Alternate Function Push Pull	No pull up pull down	High *	
	PA6	SPI1_MISO	Alternate Function Push Pull	No pull up pull down	High *	
	PA7	SPI1_MOSI	Alternate Function Push Pull	No pull up pull down	High *	
TIM2	PA15	TIM2_CH1	Alternate Function Push Pull	No pull up pull down	Low	Servo 1
	PB3	TIM2_CH2	Alternate Function Push Pull	No pull up pull down	Low	Servo 2
TIM4	PA13	TIM4_CH3	Alternate Function Push Pull	No pull up pull down	Low	OUT1
	PB6	TIM4_CH1	Alternate Function Push Pull	No pull up pull down	Low	HC OUT1
	PB7	TIM4_CH2	Alternate Function Push Pull	No pull up pull down	Low	HC OUT2
	PB9	TIM4_CH4	Alternate Function Push Pull	No pull up pull down	Low	OUT2
TIM15	PB14	TIM15_CH1	Alternate Function Push Pull	No pull up pull down	Low	Servo 4
	PB15	TIM15_CH2	Alternate Function Push Pull	No pull up pull down	Low	Servo 3
USART1	PA9	USART1_TX	Alternate Function Open Drain	No pull up pull down	High *	Sport_UART
USART2	PA14	USART2_TX	Alternate Function Open Drain	No pull up pull down	High *	Sbus_UART
USART3	PB10	USART3_TX	Alternate Function Push Pull	No pull up pull down	High *	
	PB11	USART3_RX	Alternate Function Push Pull	No pull up pull down	High *	
USB	PA11	USB_DM	Alternate Function Push Pull	No pull up pull down	High *	
	PA12	USB_DP	Alternate Function Push Pull	No pull up pull down	High *	
GPIO	PC13	GPIO_Output	Output Push Pull	No pull up pull down	Low	ERROR_LED
	PC14- OSC32_IN	GPIO_Output	Output Push Pull	No pull up pull down	Low	AMP_DIR
	PC15- OSC32_OU T	GPIO_Output	Output Push Pull	No pull up pull down	Low	AMP_CS
	PB0	GPIO_Output	Output Push Pull	No pull up pull down	Low	OUT4
	PB1	GPIO_Output	Output Push Pull	No pull up pull down	Low	OUT5

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	
	PB2	GPIO_Output	Output Push Pull	No pull up pull down	Low	OUT3
	PA8	GPIO_Output	Output Push Pull	No pull up pull down	Low	SPI_CS
	PA10	GPIO_Output	Output Push Pull	No pull up pull down	Low	WP
	PB4	GPIO_Output	Output Push Pull	No pull up pull down	Low	OUT6

8.2. DMA configuration

DMA request	Stream	Direction	Priority
ADC1	DMA1_Channel1	Peripheral To Memory	High *
DAC_CH1	DMA1_Channel3	Memory To Peripheral	Medium *
ADC3	DMA2_Channel5	Peripheral To Memory	Low

ADC1: DMA1_Channel1 DMA request Settings:

Mode: Normal
Peripheral Increment: Disable
Memory Increment: Enable *
Peripheral Data Width: Half Word
Memory Data Width: Half Word

DAC_CH1: DMA1_Channel3 DMA request Settings:

Mode: Circular *
Peripheral Increment: Disable
Memory Increment: Enable *
Peripheral Data Width: Half Word
Memory Data Width: Half Word

ADC3: DMA2_Channel5 DMA request Settings:

Mode: Normal
Peripheral Increment: Disable
Memory Increment: Enable *
Peripheral Data Width: Half Word
Memory Data Width: Half Word

8.3. NVIC configuration

Interrupt Table	Enable	Preenmption Priority	SubPriority	
Non maskable interrupt	true	0	0	
Hard fault interrupt	true	0	0	
Memory management fault	true	0	0	
Pre-fetch fault, memory access fault	true	0	0	
Undefined instruction or illegal state	true	0	0	
System service call via SWI instruction	true	0	0	
Debug monitor	true	0	0	
Pendable request for system service	true	15	0	
System tick timer	true	15	0	
DMA1 channel1 global interrupt	true	5	0	
DMA1 channel3 global interrupt	true	5	0	
USB low priority or CAN_RX0 interrupts	true	5	0	
TIM1 trigger, commutation and TIM17 interrupts	true	0	0	
TIM7 global interrupt	true	0	0	
DMA2 channel5 global interrupt	true	5	0	
PVD interrupt through EXTI line16		unused		
Flash global interrupt		unused		
RCC global interrupt		unused		
ADC1 and ADC2 interrupts		unused		
USB high priority or CAN_TX interrupts		unused		
TIM1 break and TIM15 interrupts		unused		
TIM1 update and TIM16 interrupts		unused		
TIM1 capture compare interrupt		unused		
TIM2 global interrupt		unused		
TIM3 global interrupt		unused		
TIM4 global interrupt		unused		
SPI1 global interrupt		unused		
USART1 global interrupt / USART1 wake-up interrupt through EXTI line 25		unused		
USART2 global interrupt / USART2 wake-up interrupt through EXTI line 26		unused		
USART3 global interrupt / USART3 wake-up interrupt through EXTI line 28	unused			
ADC3 global interrupt		unused		
Timer 6 interrupt and DAC underrun interrupts				
ADC4 interrupt	unused			
USB high priority interrupt remap	unused			
USB low priority interrupt remap	unused			
Floating point unit interrupt		unused		

RCtelemery Project
Configuration Report

* User modified value

9. Software Pack Report