

1. Description

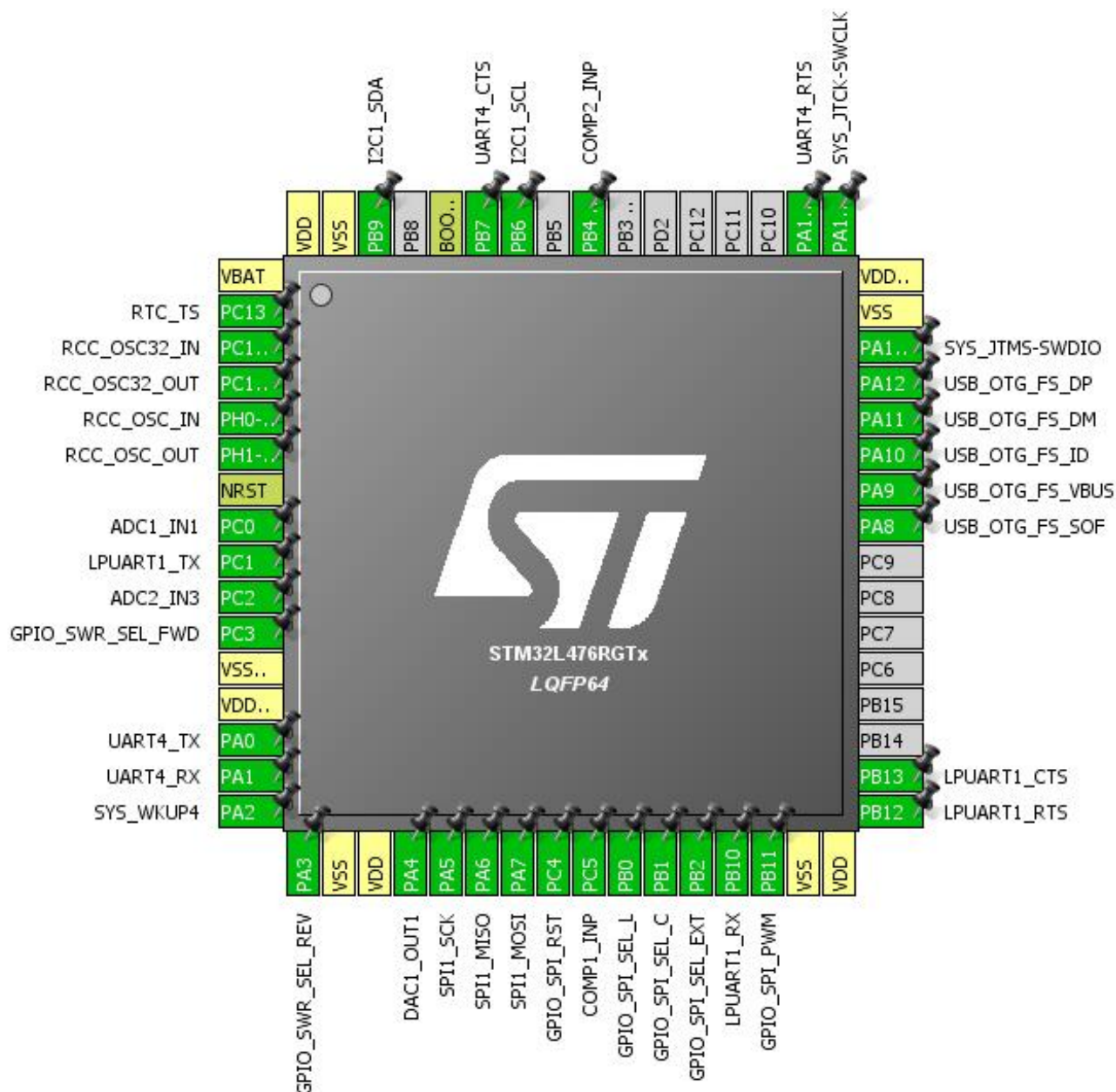
1.1. Project

Project Name	DL0WH_BiTuner
Board Name	custom
Generated with:	STM32CubeMX 4.27.0
Date	01/05/2019

1.2. MCU

MCU Series	STM32L4
MCU Line	STM32L4x6
MCU name	STM32L476RGTx
MCU Package	LQFP64
MCU Pin number	64

2. Pinout Configuration



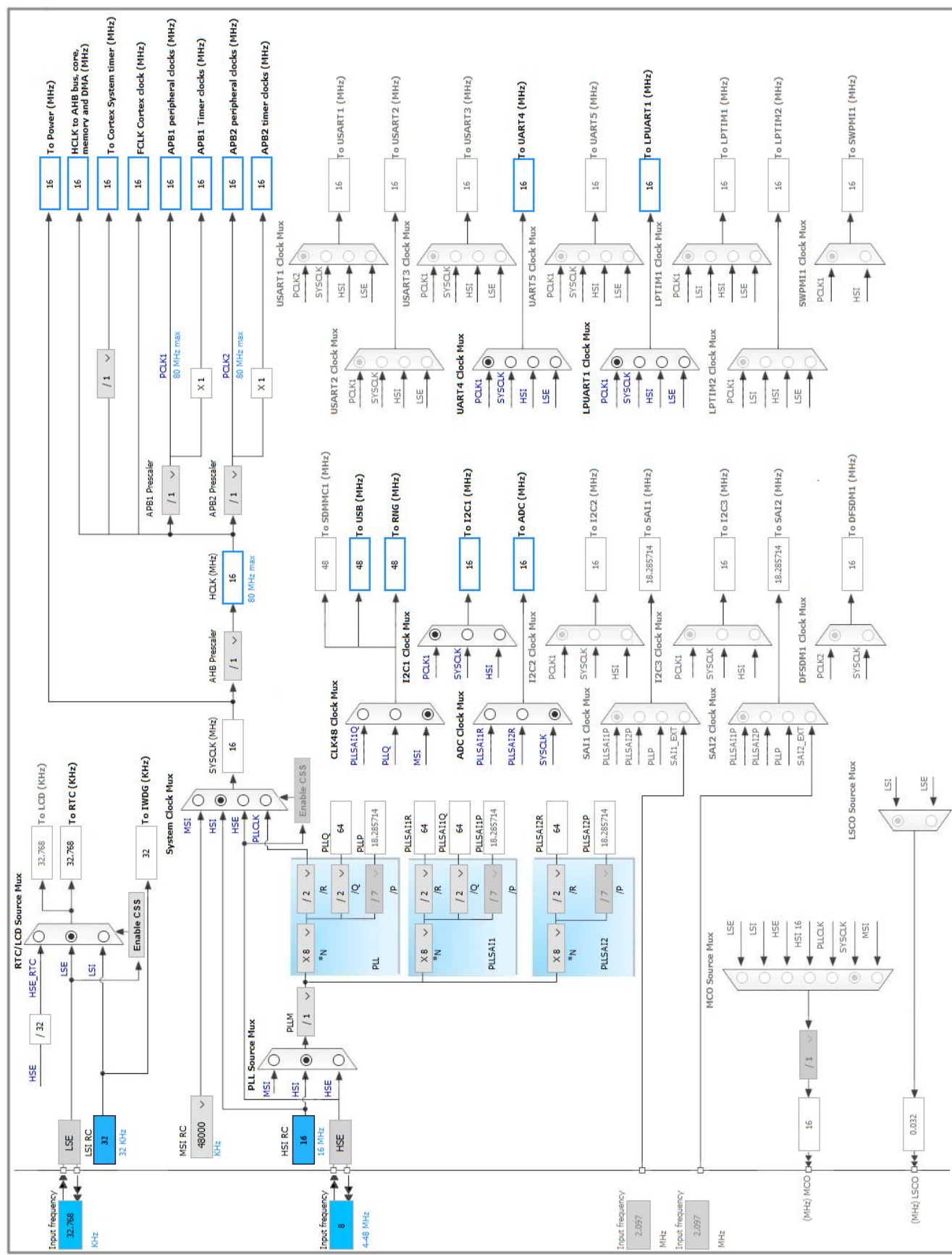
3. Pins Configuration

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	VBAT	Power		
2	PC13	I/O	RTC_TS	
3	PC14-OSC32_IN (PC14)	I/O	RCC_OSC32_IN	
4	PC15-OSC32_OUT (PC15)	I/O	RCC_OSC32_OUT	
5	PH0-OSC_IN (PH0)	I/O	RCC_OSC_IN	
6	PH1-OSC_OUT (PH1)	I/O	RCC_OSC_OUT	
7	NRST	Reset		
8	PC0	I/O	ADC1_IN1	
9	PC1	I/O	LPUART1_TX	
10	PC2	I/O	ADC2_IN3	
11	PC3 *	I/O	GPIO_Output	GPIO_SWR_SEL_FWD
12	VSSA/VREF-	Power		
13	VDDA/VREF+	Power		
14	PA0	I/O	UART4_TX	
15	PA1	I/O	UART4_RX	
16	PA2	I/O	SYS_WKUP4	
17	PA3 *	I/O	GPIO_Output	GPIO_SWR_SEL_REV
18	VSS	Power		
19	VDD	Power		
20	PA4	I/O	DAC1_OUT1	
21	PA5	I/O	SPI1_SCK	
22	PA6	I/O	SPI1_MISO	
23	PA7	I/O	SPI1_MOSI	
24	PC4 *	I/O	GPIO_Output	GPIO_SPI_RST
25	PC5	I/O	COMP1_INP	
26	PB0 *	I/O	GPIO_Output	GPIO_SPI_SEL_L
27	PB1 *	I/O	GPIO_Output	GPIO_SPI_SEL_C
28	PB2 *	I/O	GPIO_Output	GPIO_SPI_SEL_EXT
29	PB10	I/O	LPUART1_RX	
30	PB11 *	I/O	GPIO_Output	GPIO_SPI_PWM
31	VSS	Power		
32	VDD	Power		
33	PB12	I/O	LPUART1_RTS	
34	PB13	I/O	LPUART1_CTS	
41	PA8	I/O	USB_OTG_FS_SOF	
42	PA9	I/O	USB_OTG_FS_VBUS	

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
43	PA10	I/O	USB_OTG_FS_ID	
44	PA11	I/O	USB_OTG_FS_DM	
45	PA12	I/O	USB_OTG_FS_DP	
46	PA13 (JTMS-SWDIO)	I/O	SYS_JTMS-SWDIO	
47	VSS	Power		
48	VDDUSB	Power		
49	PA14 (JTCK-SWCLK)	I/O	SYS_JTCK-SWCLK	
50	PA15 (JTDI)	I/O	UART4_RTS	
56	PB4 (NJTRST)	I/O	COMP2_INP	
58	PB6	I/O	I2C1_SCL	
59	PB7	I/O	UART4_CTS	
60	BOOT0	Boot		
62	PB9	I/O	I2C1_SDA	
63	VSS	Power		
64	VDD	Power		

* The pin is affected with an I/O function

4. Clock Tree Configuration



5. IPs and Middleware Configuration

5.1. ADC1

IN1: IN1 Single-ended

5.1.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler Asynchronous clock mode divided by 1

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 preserved

Low Power Auto Wait Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions Enable

Enable Regular Oversampling Disable

Number Of Conversion 1

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None

Rank 1

Channel Channel 1

Sampling Time 2.5 Cycles

Offset Number No offset

ADC_Injected_ConversionMode:

Enable Injected Conversions Disable

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

5.2. ADC2

IN3: IN3 Single-ended

5.2.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler Asynchronous clock mode divided by 1

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 preserved

Low Power Auto Wait Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions Enable

Enable Regular Oversampling Disable

Number Of Conversion 1

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None

Rank 1

Channel Channel 3

Sampling Time 2.5 Cycles

Offset Number No offset

ADC_Injected_ConversionMode:

Enable Injected Conversions Disable

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

5.3. ADC3

mode: Temperature Sensor Channel

mode: Vbat Channel

5.3.1. Parameter Settings:

ADC_Settings:

Clock Prescaler	Asynchronous clock mode divided by 1
Resolution	ADC 12-bit resolution
Data Alignment	Right alignment
Scan Conversion Mode	Enabled
Continuous Conversion Mode	Disabled
Discontinuous Conversion Mode	Disabled
DMA Continuous Requests	Disabled
End Of Conversion Selection	End of single conversion
Overrun behaviour	Overrun data preserved
Low Power Auto Wait	Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions	Enable
Enable Regular Oversampling	Enable *
Oversampling Right Shift	No bit shift for oversampling
Oversampling Ratio	Oversampling ratio 16x *
Regular Oversampling Mode	Oversampling Continued Mode
Triggered Regular Oversampling	Single trigger for all oversampled conversions
Number Of Conversion	2 *
External Trigger Conversion Source	Regular Conversion launched by software
External Trigger Conversion Edge	None
<u>Rank</u>	1
Channel	Channel Temperature Sensor
Sampling Time	12.5 Cycles *
Offset Number	No offset
<u>Rank</u>	2 *
Channel	Channel Vbat *
Sampling Time	12.5 Cycles *
Offset Number	No offset

ADC_Injected_ConversionMode:

Enable Injected Conversions	Disable
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Analog Watchdog 1:

Enable Analog WatchDog1 Mode	false
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Analog Watchdog 2:

Enable Analog WatchDog2 Mode	false
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Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

5.4. COMP1

mode: Input [+]

Input [-]: 1/2 Internal VRef

5.4.1. Parameter Settings:

Basic Parameters:

Speed / Power Mode

High Speed

Trigger Mode

Rising/Falling Edge Interrupt *

Hysteresis Level

Medium *

Output Configuration:

Blanking Source

None

Output Pol

COMP output on GPIO isn't inverted

5.5. COMP2

Input [+]: INP

Input [-]: 1/2 Internal VRef

5.5.1. Parameter Settings:

Basic Parameters:

Speed / Power Mode

High Speed

Trigger Mode

Rising/Falling Edge Interrupt *

Hysteresis Level

Medium *

Output Configuration:

Blanking Source

None

Output Pol

COMP output on GPIO isn't inverted

5.6. CRC

mode: Activated

5.6.1. 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

5.7. DAC1

OUT1 mode: Connected to external pin only

5.7.1. Parameter Settings:

DAC Out1 Settings:

Output Buffer **Disable ***
Trigger None
User Trimming Factory trimming
Sample And Hold Sampleandhold Disable

5.8. I2C1

I2C: I2C

5.8.1. Parameter Settings:

Timing configuration:

I2C Speed Mode **Fast Mode ***
I2C Speed Frequency (KHz) 400
Rise Time (ns) 0
Fall Time (ns) 0
Coefficient of Digital Filter 0
Analog Filter Enabled
Timing **0x0010061A ***

Slave Features:

Clock No Stretch Mode **Enabled ***
General Call Address Detection Disabled
Primary Address Length selection 7-bit
Dual Address Acknowledged Disabled
Primary slave address 0

5.9. IWDG

mode: Activated

5.9.1. Parameter Settings:

Watchdog Clocking:

IWDG counter clock prescaler	4
IWDG window value	4095
IWDG down-counter reload value	4095

5.10. LPUART1

Mode: Asynchronous

Hardware Flow Control (RS232): CTS/RTS

5.10.1. Parameter Settings:

Basic Parameters:

Baud Rate	209700
Word Length	8 Bits (including Parity) *
Parity	None
Stop Bits	1

Advanced Parameters:

Data Direction	Receive and Transmit
Single Sample	Disable

Advanced Features:

TX Pin Active Level Inversion	Disable
RX Pin Active Level Inversion	Disable
Data Inversion	Disable
TX and RX pins Swapping	Disable
Overrun	Enable
DMA on RX Error	Enable
MSB First	Disable

5.11. RCC

High Speed Clock (HSE): Crystal/Ceramic Resonator

Low Speed Clock (LSE) : Crystal/Ceramic Resonator

5.11.1. Parameter Settings:

System Parameters:

VDD voltage (V)	3.3
Instruction Cache	Enabled
Prefetch Buffer	Enabled *
Data Cache	Enabled
Flash Latency(WS)	2 WS (3 CPU cycle)

RCC Parameters:

HSI Calibration Value	16
MSI Calibration Value	0
MSI Auto Calibration	Enabled
HSE Startup Timeout Value (ms)	100
LSE Startup Timeout Value (ms)	5000
LSE Drive Capability	LSE oscillator low drive capability

Power Parameters:

Power Regulator Voltage Scale	Power Regulator Voltage Scale 2 *
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5.12. RNG

mode: Activated

5.13. RTC

mode: Activate Clock Source

mode: Activate Calendar

Alarm A: Internal Alarm A

WakeUp: Internal WakeUp

mode: Timestamp

5.13.1. Parameter Settings:

General:

Hour Format	Hourformat 24
Asynchronous Predivider value	127
Synchronous Predivider value	255

Calendar Time:

Data Format	BCD data format
Hours	0
Minutes	0

Seconds	0
Day Light Saving: value of hour adjustment	Daylightsaving None
Store Operation	Storeoperation Reset

Calendar Date:

Week Day	Monday
Month	January
Date	1
Year	0

Alarm A:

Hours	0
Minutes	0
Seconds	0
Sub Seconds	0
Alarm Mask Date Week day	Disable
Alarm Mask Hours	Disable
Alarm Mask Minutes	Disable
Alarm Mask Seconds	Disable
Alarm Sub Second Mask	All Alarm SS fields are masked.
Alarm Date Week Day Sel	Date
Alarm Date	1

Wake UP:

Wake Up Clock	RTCCLK / 16
Wake Up Counter	0

Time Stamp:

Time Stamp Pin Edge	Time Stamp occurs on the Rising edge
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5.14. SPI1

Mode: Full-Duplex Master

5.14.1. Parameter Settings:

Basic Parameters:

Frame Format	Motorola
Data Size	8 Bits *
First Bit	MSB First

Clock Parameters:

Prescaler (for Baud Rate)	2
Baud Rate	8.0 MBits/s *
Clock Polarity (CPOL)	Low
Clock Phase (CPHA)	1 Edge

Advanced Parameters:

CRC Calculation	Disabled
NSSP Mode	Disabled *
NSS Signal Type	Software

5.15. SYS

Debug: Serial Wire

mode: System Wake-Up 4

Power Voltage Detector In: Power Voltage Detector In (Internal analog voltage)

Timebase Source: TIM1

5.15.1. Parameter Settings:

Programmable_Voltage_Detector_Settings:

PVD detection Level	PWR PVD LEVEL 5 (2.8 V) *
PWR PVD Mode	basic mode is used

5.16. TIM5

mode: Clock Source

5.16.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value)	0
Counter Mode	Up
Counter Period (AutoReload Register - 32 bits value)	15999999 *
Internal Clock Division (CKD)	No Division
auto-reload preload	Enable *

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)

5.17. UART4

Mode: Asynchronous

Hardware Flow Control (RS232): CTS/RTS

5.17.1. Parameter Settings:

Basic Parameters:

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

5.18. USB_OTG_FS

Mode: OTG/Dual_Role_Device

Activate_VBUS: VBUS sensing

mode: Activate_SOF

5.19. FREERTOS

mode: Enabled

5.19.1. Config parameters:

Versions:

FreeRTOS version	10.0.1
CMSIS-RTOS version	1.02

Kernel settings:

USE_PREEMPTION	Enabled
CPU_CLOCK_HZ	SystemCoreClock
TICK_RATE_HZ	1000
MAX_PRIORITIES	7

MINIMAL_STACK_SIZE	256 *
MAX_TASK_NAME_LEN	32 *
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	Enabled *
ENABLE_BACKWARD_COMPATIBILITY	Disabled *
USE_PORT_OPTIMISED_TASK_SELECTION	Enabled
USE_TICKLESS_IDLE	Disabled
USE_TASK_NOTIFICATIONS	Enabled
RECORD_STACK_HIGH_ADDRESS	Enabled *

Memory management settings:

Memory Allocation	Dynamic
TOTAL_HEAP_SIZE	16000 *
Memory Management scheme	heap_4

Hook function related definitions:

USE_IDLE_HOOK	Enabled *
USE_TICK_HOOK	Disabled
USE_MALLOC_FAILED_HOOK	Disabled
USE_DAEMON_TASK_STARTUP_HOOK	Disabled
CHECK_FOR_STACK_OVERFLOW	Option1 *

Run time and task stats gathering related definitions:

GENERATE_RUN_TIME_STATS	Enabled *
USE_TRACE_FACILITY	Enabled *
USE_STATS_FORMATTING_FUNCTIONS	Enabled *

Co-routine related definitions:

USE_CO_ROUTINES	Disabled
MAX_CO_ROUTINE_PRIORITIES	2

Software timer definitions:

USE_TIMERS	Enabled
TIMER_TASK_PRIORITY	2
TIMER_QUEUE_LENGTH	10
TIMER_TASK_STACK_DEPTH	512

Interrupt nesting behaviour configuration:

LIBRARY_LOWEST_INTERRUPT_PRIORITY	15
LIBRARY_MAX_SYSCALL_INTERRUPT_PRIORITY	5

5.19.2. Include parameters:

Include definitions:

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

* User modified value

6. System Configuration

6.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
ADC1	PC0	ADC1_IN1	Analog mode for ADC conversion	No pull-up and no pull-down	n/a	
ADC2	PC2	ADC2_IN3	Analog mode for ADC conversion	No pull-up and no pull-down	n/a	
COMP1	PC5	COMP1_INP	Analog mode	No pull-up and no pull-down	n/a	
COMP2	PB4 (NJTRST)	COMP2_INP	Analog mode	No pull-up and no pull-down	n/a	
DAC1	PA4	DAC1_OUT1	Analog mode	No pull-up and no pull-down	n/a	
I2C1	PB6	I2C1_SCL	Alternate Function Open Drain	Pull-up	Very High *	
	PB9	I2C1_SDA	Alternate Function Open Drain	Pull-up	Very High *	
LPUART1	PC1	LPUART1_TX	Alternate Function Push Pull	No pull-up and no pull-down	Medium *	
	PB10	LPUART1_RX	Alternate Function Push Pull	Pull-up *	Medium *	
	PB12	LPUART1_RTS	Alternate Function Push Pull	No pull-up and no pull-down	Medium *	
	PB13	LPUART1_CTS	Alternate Function Push Pull	Pull-up *	Medium *	
RCC	PC14- OSC32_IN (PC14)	RCC_OSC32_IN	n/a	n/a	n/a	
	PC15- OSC32_OUT (PC15)	RCC_OSC32_OUT	n/a	n/a	n/a	
	PH0- OSC_IN (PH0)	RCC_OSC_IN	n/a	n/a	n/a	
	PH1- OSC_OUT (PH1)	RCC_OSC_OUT	n/a	n/a	n/a	
RTC	PC13	RTC_TS	n/a	n/a	n/a	
SPI1	PA5	SPI1_SCK	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
	PA6	SPI1_MISO	Alternate Function Push Pull	Pull-down *	Very High *	
	PA7	SPI1_MOSI	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
SYS	PA2	SYS_WKUP4	n/a	n/a	n/a	

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
	PA13 (JTMS-SWDIO)	SYS_JTMS-SWDIO	n/a	n/a	n/a	
	PA14 (JTCK-SWCLK)	SYS_JTCK-SWCLK	n/a	n/a	n/a	
UART4	PA0	UART4_TX	Alternate Function Push Pull	No pull-up and no pull-down	Medium *	
	PA1	UART4_RX	Alternate Function Push Pull	Pull-up *	Medium *	
	PA15 (JTDI)	UART4_RTS	Alternate Function Push Pull	No pull-up and no pull-down	Medium *	
	PB7	UART4_CTS	Alternate Function Push Pull	Pull-up *	Medium *	
USB_OTG_FS	PA8	USB_OTG_FS_SOF	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
	PA9	USB_OTG_FS_VBUS	Input mode	No pull-up and no pull-down	n/a	
	PA10	USB_OTG_FS_ID	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
	PA11	USB_OTG_FS_DM	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
	PA12	USB_OTG_FS_DP	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
GPIO	PC3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	GPIO_SWR_SEL_FWD
	PA3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	GPIO_SWR_SEL_REV
	PC4	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	GPIO_SPI_RST
	PB0	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High *	GPIO_SPI_SEL_L
	PB1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High *	GPIO_SPI_SEL_C
	PB2	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High *	GPIO_SPI_SEL_EXT
	PB11	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	GPIO_SPI_PWM

6.2. DMA configuration

nothing configured in DMA service

6.3. 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
Prefetch 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
ADC1 and ADC2 interrupts	true	5	0
TIM1 update interrupt and TIM16 global interrupt	true	0	0
SPI1 global interrupt	true	5	0
ADC3 global interrupt	true	5	0
TIM5 global interrupt	true	5	0
UART4 global interrupt	true	5	0
COMP1 and COMP2 interrupts through EXTI lines 21 and 22	true	5	0
LPUART1 global interrupt	true	5	0
PVD/PVM1/PVM2/PVM3/PVM4 interrupts through EXTI lines 16/35/36/37/38	unused		
RTC tamper and time stamp, CSS on LSE interrupts through EXTI line 19	unused		
RTC wake-up interrupt through EXTI line 20	unused		
Flash global interrupt	unused		
RCC global interrupt	unused		
I2C1 event interrupt	unused		
I2C1 error interrupt	unused		
RTC alarm interrupt through EXTI line 18	unused		
TIM6 global interrupt, DAC channel1 and channel2 underrun error interrupts	unused		
RNG global interrupt	unused		
FPU global interrupt	unused		

* User modified value

7. Power Consumption Calculator report

7.1. Microcontroller Selection

Series	STM32L4
Line	STM32L4x6
MCU	STM32L476RGTx
Datasheet	025976_Rev4

7.2. Parameter Selection

Temperature	25
Vdd	3.6

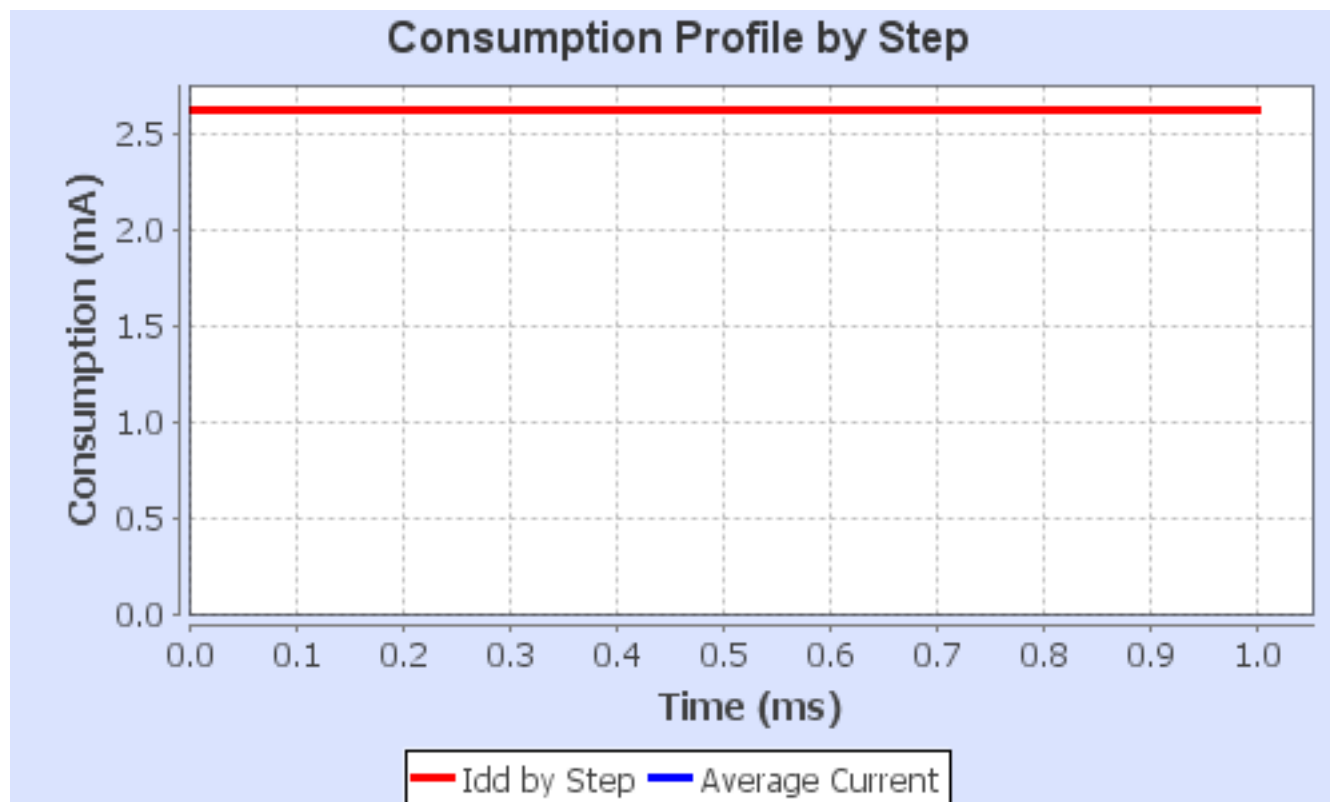
7.3. Sequence

Step	Step1
Mode	RUN
Vdd	3.6
Voltage Source	Battery
Range	Range2-Medium
Fetch Type	FLASH/ART/Cache
Clock Configuration	HSE
Clock Source Frequency	16 MHz
CPU Frequency	16 MHz
Peripherals	ADC1:fs_10_ksp ADC2:fs_10_ksp ADC3:fs_10_ksp AHB_APB1_Bridge AHB_APB2_Bridge CRC DAC1:OUT1- Buffer_OFF-Middle_code GPIOA GPIOB GPIOC GPIOD GPIOH I2C1 LPTIM1 PVD/BOR RNG RTC SPI1 TIM5 UART4 USB OTG FS
Additional Cons.	0 mA
Average Current	2.62 mA
Duration	1 ms
DMIPS	0.0
Ta Max	104.58
Category	In DS Table

7.4. RESULTS

Sequence Time	1 ms	Average Current	2.62 mA
Battery Life	0	Average DMIPS	20.0 DMIPS

7.5. Chart



8. Software Project

8.1. Project Settings

Name	Value
Project Name	DL0WH_BiTuner
Project Folder	Z:\nfs_ds_nfs\git\DL0WH_BiTuner\SW\DL0WH_BiTuner
Toolchain / IDE	TrueSTUDIO
Firmware Package Name and Version	STM32Cube FW_L4 V1.13.0

8.2. 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	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

9. Software Pack Report