1. Description

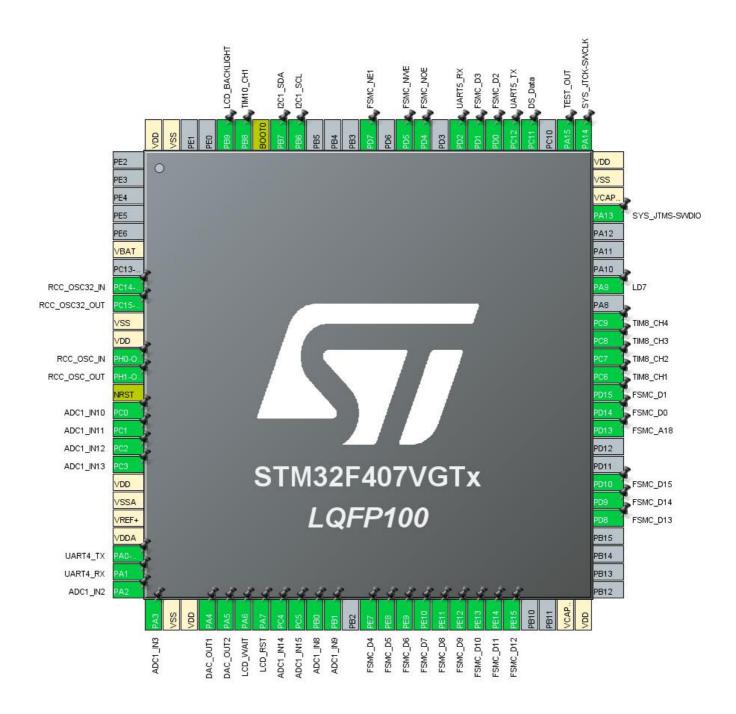
1.1. Project

Project Name	RA8875_test
Board Name	nextion_hmi
Generated with:	STM32CubeMX 5.6.0
Date	04/11/2020

1.2. MCU

MCU Series	STM32F4
MCU Line	STM32F407/417
MCU name	STM32F407VGTx
MCU Package	LQFP100
MCU Pin number	100

2. Pinout Configuration



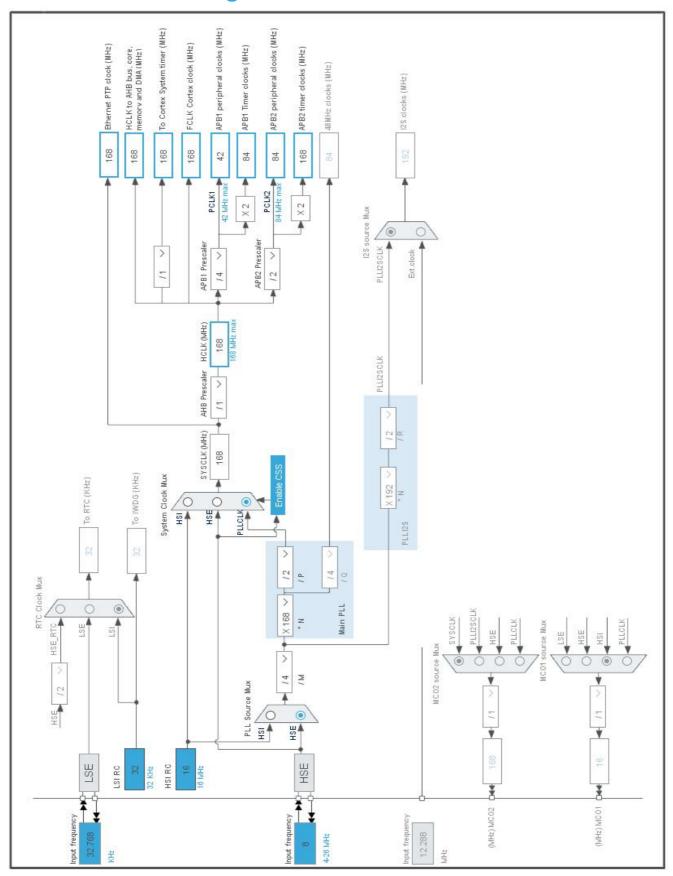
3. Pins Configuration

Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP100	100 (function after		Function(s)	
	reset)			
6	VBAT	Power		
8	PC14-OSC32_IN	I/O	RCC_OSC32_IN	
9	PC15-OSC32_OUT	I/O	RCC_OSC32_OUT	
10	VSS	Power		
11	VDD	Power		
12	PH0-OSC_IN	I/O	RCC_OSC_IN	
13	PH1-OSC_OUT	I/O	RCC_OSC_OUT	
14	NRST	Reset		
15	PC0	I/O	ADC1_IN10	
16	PC1	I/O	ADC1_IN11	
17	PC2	I/O	ADC1_IN12	
18	PC3	I/O	ADC1_IN13	
19	VDD	Power		
20	VSSA	Power		
21	VREF+	Power		
22	VDDA	Power		
23	PA0-WKUP	I/O	UART4_TX	
24	PA1	I/O	UART4_RX	
25	PA2	I/O	ADC1_IN2	
26	PA3	I/O	ADC1_IN3	
27	VSS	Power		
28	VDD	Power		
29	PA4	I/O	DAC_OUT1	
30	PA5	I/O	DAC_OUT2	
31	PA6 *	I/O	GPIO_Input	LCD_WAIT
32	PA7 *	I/O	GPIO_Output	LCD_RST
33	PC4	I/O	ADC1_IN14	
34	PC5	I/O	ADC1_IN15	
35	PB0	I/O	ADC1_IN8	
36	PB1	I/O	ADC1_IN9	
38	PE7	I/O	FSMC_D4	
39	PE8	I/O	FSMC_D5	
40	PE9	I/O	FSMC_D6	
41	PE10	I/O	FSMC_D7	
42	PE11	I/O	FSMC_D8	
43	PE12	I/O	FSMC_D9	

Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP100	(function after		Function(s)	
	reset)			
44	PE13	I/O	FSMC_D10	
45	PE14	I/O	FSMC_D11	
46	PE15	I/O	FSMC_D12	
49	VCAP_1	Power		
50	VDD	Power		
55	PD8	I/O	FSMC_D13	
56	PD9	I/O	FSMC_D14	
57	PD10	I/O	FSMC_D15	
60	PD13	I/O	FSMC_A18	
61	PD14	I/O	FSMC_D0	
62	PD15	I/O	FSMC_D1	
63	PC6	I/O	TIM8_CH1	
64	PC7	I/O	TIM8_CH2	
65	PC8	I/O	TIM8_CH3	
66	PC9	I/O	TIM8_CH4	
68	PA9 *	I/O	GPIO_Output	LD7
72	PA13	I/O	SYS_JTMS-SWDIO	
73	VCAP_2	Power		
74	VSS	Power		
75	VDD	Power		
76	PA14	I/O	SYS_JTCK-SWCLK	
77	PA15 *	I/O	GPIO_Output	TEST_OUT
79	PC11 *	I/O	GPIO_Input	DS_Data
80	PC12	I/O	UART5_TX	
81	PD0	I/O	FSMC_D2	
82	PD1	I/O	FSMC_D3	
83	PD2	I/O	UART5_RX	
85	PD4	I/O	FSMC_NOE	
86	PD5	I/O	FSMC_NWE	
88	PD7	I/O	FSMC_NE1	
92	PB6	I/O	I2C1_SCL	
93	PB7	I/O	I2C1_SDA	
94	BOOT0	Boot		
95	PB8	I/O	TIM10_CH1	
96	PB9	I/O	TIM11_CH1	LCD_BACKLIGHT
99	VSS	Power		
100	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	RA8875_test
Project Folder	E:\Projects\RA8875_test
Toolchain / IDE	Other Toolchains (GPDSC)
Firmware Package Name and Version	STM32Cube FW_F4 V1.25.0

5.2. Code Generation Settings

Name	Value
STM32Cube MCU packages and embedded software	Copy all used libraries into the project folder
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	STM32F4
Line	STM32F407/417
MCU	STM32F407VGTx
Datasheet	022152_Rev8

6.2. Parameter Selection

Temperature	25
Vdd	3.3

6.3. Battery Selection

Battery	Li-SOCL2(A3400)
Capacity	3400.0 mAh
Self Discharge	0.08 %/month
Nominal Voltage	3.6 V
Max Cont Current	100.0 mA
Max Pulse Current	200.0 mA
Cells in series	1
Cells in parallel	1

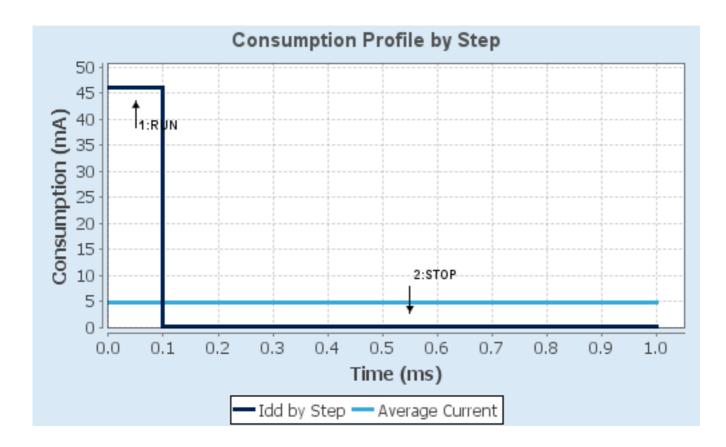
6.4. Sequence

	T	
Step	Step1	Step2
Mode	RUN	STOP
Vdd	3.3	3.3
Voltage Source	Battery	Battery
Range	Scale1-High	No Scale
Fetch Type	FLASH	n/a
CPU Frequency	168 MHz	0 Hz
Clock Configuration	HSE PLL	Regulator LP Flash-PwrDwn
Clock Source Frequency	4 MHz	0 Hz
Peripherals		
Additional Cons.	0 mA	0 mA
Average Current	46 mA	280 µA
Duration	0.1 ms	0.9 ms
DMIPS	210.0	0.0
Ta Max	98.47	104.96
Category	In DS Table	In DS Table

6.5. RESULTS

Sequence Time	1 ms	Average Current	4.85 mA
Battery Life	29 days, 4 hours	Average DMIPS	210.0 DMIPS

6.6. Chart



7. IPs and Middleware Configuration

7.1. ADC1

mode: IN2
mode: IN3
mode: IN8
mode: IN9
mode: IN10
mode: IN11
mode: IN12
mode: IN13
mode: IN14

mode: IN15

mode: Temperature Sensor Channel

mode: Vrefint Channel 7.1.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler PCLK2 divided by 4

Resolution 10 bits (13 ADC Clock cycles) *

Data Alignment

Scan Conversion Mode

Continuous Conversion Mode

Discontinuous Conversion Mode

Disabled

DMA Continuous Requests

Right alignment

Enabled

Enabled

*

Disabled

Enabled *

End Of Conversion Selection EOC flag at the end of all conversions *

ADC_Regular_ConversionMode:

Number Of Conversion 12 *

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None Rank 1

Channel 2
Sampling Time Channel 2
480 Cycles *

<u>Rank</u> 2 *

Channel 3 *
Sampling Time 480 Cycles *

<u>Rank</u> 3 *

Channel 8 *
Sampling Time 480 Cycles *

<u>Rank</u> 4 *

Channel Channel 9 *
Sampling Time 480 Cycles *

<u>Rank</u> 5 *

Channel 10 *
Sampling Time 480 Cycles *

Rank 6 *

Channel 11 *
Sampling Time 480 Cycles *

<u>Rank</u> 7 *

Channel 12 *
Sampling Time 480 Cycles *

<u>Rank</u> 8 *

Channel 13 *
Sampling Time 480 Cycles *

Rank 9 *

Channel 14 *
Sampling Time 480 Cycles *

<u>Rank</u> **10** *

Channel 15 *
Sampling Time 480 Cycles *

Rank 11 *

Channel Vrefint *

Sampling Time 480 Cycles *

<u>Rank</u> 12 *

Channel Temperature Sensor *

Sampling Time 480 Cycles *

ADC_Injected_ConversionMode:

Number Of Conversions 0

WatchDog:

Enable Analog WatchDog Mode false

7.2. CRC

mode: Activated

7.3. DAC

mode: OUT1 Configuration mode: OUT2 Configuration 7.3.1. Parameter Settings:

DAC Out1 Settings:

Output Buffer Enable
Trigger None

DAC Out2 Settings:

Output Buffer Enable
Trigger None

7.4. FSMC

NOR Flash/PSRAM/SRAM/ROM/LCD 1

Chip Select: set

Memory type: LCD Interface LCD Register Select: A18

Data: 16 bits

7.4.1. NOR/PSRAM 1:

NOR/PSRAM control:

Memory type LCD Interface

Bank 1 NOR/PSRAM 1

Write operation Enabled
Extended mode Disabled

NOR/PSRAM timing:

Address setup time in HCLK clock cycles 5 * Data setup time in HCLK clock cycles 9 * Bus turn around time in HCLK clock cycles 0 *

7.5. **GPIO**

7.6. I2C1

12C: 12C

7.6.1. Parameter Settings:

Master Features:

I2C Speed Mode Standard Mode

I2C Clock Speed (Hz) 100000

Slave Features:

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

7.7. RCC

High Speed Clock (HSE): Crystal/Ceramic Resonator Low Speed Clock (LSE): Crystal/Ceramic Resonator

7.7.1. Parameter Settings:

System Parameters:

VDD voltage (V) 3.3
Instruction Cache Enabled
Prefetch Buffer Enabled
Data Cache Enabled

Flash Latency(WS) 5 WS (6 CPU cycle)

RCC Parameters:

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

Power Parameters:

Power Regulator Voltage Scale Power Regulator Voltage Scale 1

7.8. SYS

Debug: Serial Wire

Timebase Source: TIM6

7.9. TIM7

mode: Activated

7.9.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 84 * Counter Mode Up Counter Period (AutoReload Register - 16 bits value) 65535 * auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Trigger Event Selection Reset (UG bit from TIMx_EGR)

7.10. TIM8

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

7.10.1. Parameter Settings:

Counter Settings:

auto-reload preload

Prescaler (PSC - 16 bits value) 16800 * Counter Mode Counter Period (AutoReload Register - 16 bits value) 100 * Internal Clock Division (CKD) No Division 0 Repetition Counter (RCR - 8 bits value) Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed) Reset (UG bit from TIMx_EGR) Trigger Event Selection

Break And Dead Time management - BRK Configuration:

BRK State Disable **BRK Polarity** High

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

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value)

Output compare preload

Fast Mode

CH Polarity

CH Idle State

10 *

Disable

High

Reset

PWM Generation Channel 2:

Mode PWM mode 1

Pulse (16 bits value)

Output compare preload

Fast Mode

CH Polarity

CH Idle State

10 *

Enable

Disable

Reset

PWM Generation Channel 3:

Mode PWM mode 1

Pulse (16 bits value)

Output compare preload

Fast Mode

CH Polarity

CH Idle State

10 *

Enable

High

Reset

PWM Generation Channel 4:

Mode PWM mode 1

Pulse (16 bits value)

Output compare preload

Fast Mode

CH Polarity

CH Idle State

10 *

Enable

Disable

Reset

7.11. TIM10

mode: Activated

Channel1: PWM Generation CH1

7.11.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 16800 *

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 100 *

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

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 50 *

Output compare preload Enable

Fast Mode Disable

CH Polarity High

7.12. TIM11

mode: Activated

Channel1: PWM Generation CH1

7.12.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0
Counter Mode Up
Counter Period (AutoReload Register - 16 bits value) 100 *
Internal Clock Division (CKD) No Division
auto-reload preload Disable

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 50 *

Output compare preload Enable
Fast Mode Disable
CH Polarity High

7.13. UART4

Mode: Asynchronous

7.13.1. Parameter Settings:

Basic Parameters:

Baud Rate 19200 *

Word Length 8 Bits (including Parity)

Parity None Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples

7.14. UART5

Mode: Asynchronous

7.14.1. Parameter Settings:

Basic Parameters:

Baud Rate 19200 *

Word Length 8 Bits (including Parity)

Parity None Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples

7.15. FREERTOS

Interface: CMSIS_V1

7.15.1. Config parameters:

API:

FreeRTOS API CMSIS v1

Versions:

FreeRTOS version 10.2.1 CMSIS-RTOS version 1.02

MPU/FPU:

ENABLE_MPU Disabled ENABLE_FPU Disabled

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
RECORD_STACK_HIGH_ADDRESS Disabled

Memory management settings:

Memory Allocation Dynamic / Static

TOTAL_HEAP_SIZE 15360

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 Enabled *

TIMER_TASK_PRIORITY 2
TIMER_QUEUE_LENGTH 10
TIMER_TASK_STACK_DEPTH 256

Interrupt nesting behaviour configuration:

LIBRARY_LOWEST_INTERRUPT_PRIORITY 15

LIBRARY_MAX_SYSCALL_INTERRUPT_PRIORITY 5

Added with 10.2.1 support:

MESSAGE_BUFFER_LENGTH_TYPE size_t
USE_POSIX_ERRNO Disabled

7.15.2. Include parameters:

Include definitions:

Enabled vTaskPrioritySet Enabled uxTaskPriorityGet Enabled vTaskDelete Disabled vTaskCleanUpResources Enabled vTaskSuspend vTaskDelayUntil Disabled vTaskDelay Enabled Enabled xTaskGetSchedulerState xTaskResumeFromISR Enabled xQueueGetMutexHolder Disabled Disabled xSemaphoreGetMutexHolder pcTaskGetTaskName Disabled uxTaskGetStackHighWaterMark Disabled Disabled xTaskGetCurrentTaskHandle eTaskGetState Disabled xEventGroupSetBitFromISR Disabled Disabled xTimerPendFunctionCall xTaskAbortDelay Disabled xTaskGetHandle Disabled Disabled uxTaskGetStackHighWaterMark2

7.15.3. Advanced settings:

Newlib settings (see parameter description first):

USE_NEWLIB_REENTRANT Disabled

Project settings (see parameter description first):

Use FW pack heap file Enabled

^{*} User modified value

8. System Configuration

8.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	
ADC1	PC0	ADC1_IN10	Analog mode	No pull-up and no pull-down	n/a	
	PC1	ADC1_IN11	Analog mode	No pull-up and no pull-down	n/a	
	PC2	ADC1_IN12	Analog mode	No pull-up and no pull-down	n/a	
	PC3	ADC1_IN13	Analog mode	No pull-up and no pull-down	n/a	
	PA2	ADC1_IN2	Analog mode	No pull-up and no pull-down	n/a	
	PA3	ADC1_IN3	Analog mode	No pull-up and no pull-down	n/a	
	PC4	ADC1_IN14	Analog mode	No pull-up and no pull-down	n/a	
	PC5	ADC1_IN15	Analog mode	No pull-up and no pull-down	n/a	
	PB0	ADC1_IN8	Analog mode	No pull-up and no pull-down	n/a	
	PB1	ADC1_IN9	Analog mode	No pull-up and no pull-down	n/a	
DAC	PA4	DAC_OUT1	Analog mode	No pull-up and no pull-down	n/a	
	PA5	DAC_OUT2	Analog mode	No pull-up and no pull-down	n/a	
FSMC	PE7	FSMC_D4	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE8	FSMC_D5	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE9	FSMC_D6	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE10	FSMC_D7	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE11	FSMC_D8	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE12	FSMC_D9	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE13	FSMC_D10	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE14	FSMC_D11	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PE15	FSMC_D12	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD8	FSMC_D13	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD9	FSMC_D14	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD10	FSMC_D15	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD13	FSMC_A18	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD14	FSMC_D0	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD15	FSMC_D1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD0	FSMC_D2	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD1	FSMC_D3	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD4	FSMC_NOE	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD5	FSMC_NWE	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PD7	FSMC_NE1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
I2C1	PB6	I2C1_SCL	Alternate Function Open Drain	Pull-up	High *	
	PB7	I2C1_SDA	Alternate Function Open Drain	Pull-up	High *	

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
RCC	PC14- OSC32_IN	RCC_OSC32_IN	n/a	n/a	n/a	
	PC15- OSC32_OU T	RCC_OSC32_O UT	n/a	n/a	n/a	
	PH0- OSC_IN	RCC_OSC_IN	n/a	n/a	n/a	
	PH1- OSC_OUT	RCC_OSC_OUT	n/a	n/a	n/a	
SYS	PA13	SYS_JTMS- SWDIO	n/a	n/a	n/a	
	PA14	SYS_JTCK- SWCLK	n/a	n/a	n/a	
TIM8	PC6	TIM8_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PC7	TIM8_CH2	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PC8	TIM8_CH3	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PC9	TIM8_CH4	Alternate Function Push Pull	No pull-up and no pull-down	Low	
TIM10	PB8	TIM10_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	
TIM11	PB9	TIM11_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	LCD_BACKLIGHT
UART4	PA0-WKUP	UART4_TX	Alternate Function Push Pull	Pull-up	High *	
	PA1	UART4_RX	Alternate Function Push Pull	Pull-up	High *	
UART5	PC12	UART5_TX	Alternate Function Push Pull	Pull-up	High *	
	PD2	UART5_RX	Alternate Function Push Pull	Pull-up	High *	
GPIO	PA6	GPIO_Input	Input mode	No pull-up and no pull-down	n/a	LCD_WAIT
	PA7	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_RST
	PA9	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD7
	PA15	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	TEST_OUT
	PC11	GPIO_Input	Input mode	Pull-up *	n/a	DS_Data

8.2. DMA configuration

DMA request	Stream	Direction	Priority
ADC1	DMA2_Stream0	Peripheral To Memory	Medium *

ADC1: DMA2_Stream0 DMA request Settings:

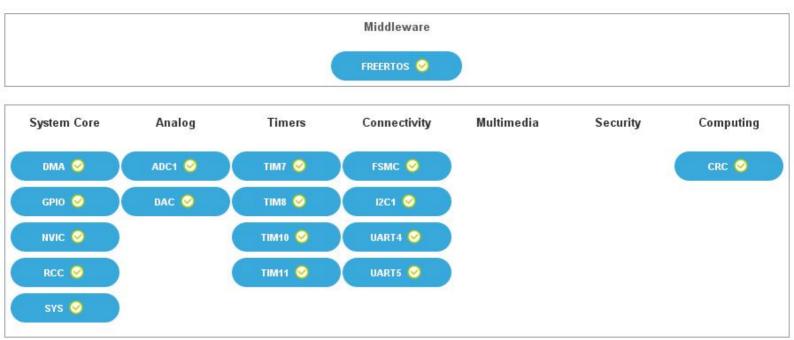
Mode: Circular *
Use fifo: Disable
Peripheral Increment: Disable
Memory Increment: Enable *
Peripheral Data Width: Half Word
Memory Data Width: Half Word

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	
UART4 global interrupt	true	5	0	
UART5 global interrupt	true	5	0	
TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts	true	0	0	
DMA2 stream0 global interrupt	true	5	0	
PVD interrupt through EXTI line 16	unused			
Flash global interrupt	unused			
RCC global interrupt	unused			
ADC1, ADC2 and ADC3 global interrupts	unused			
TIM1 update interrupt and TIM10 global interrupt	unused			
TIM1 trigger and commutation interrupts and TIM11 global interrupt	unused			
I2C1 event interrupt	unused			
I2C1 error interrupt	unused			
TIM8 break interrupt and TIM12 global interrupt	unused			
TIM8 update interrupt and TIM13 global interrupt	unused			
TIM8 trigger and commutation interrupts and TIM14 global interrupt	unused			
TIM8 capture compare interrupt	unused			
TIM7 global interrupt	unused			
FPU global interrupt		unused		

* User modified value

9. Predefined Views - Category view: Current



10. Software Pack Report10.1. Software Pack selected

Vendor	Name	Version	Component
STMicroelectronic	FreeRTOS	0.0.1	Class : CMSIS
s			Group : RTOS
			SubGroup :
			FreeRTOS
			Version : 10.2.0
			Class : RTOS
			Group : Core
			Version : 10.2.0