

1. Description

1.1. Project

Project Name	RoboSoccer_F767ZI
Board Name	NUCLEO-F767ZI
Generated with:	STM32CubeMX 6.15.0
Date	07/22/2025

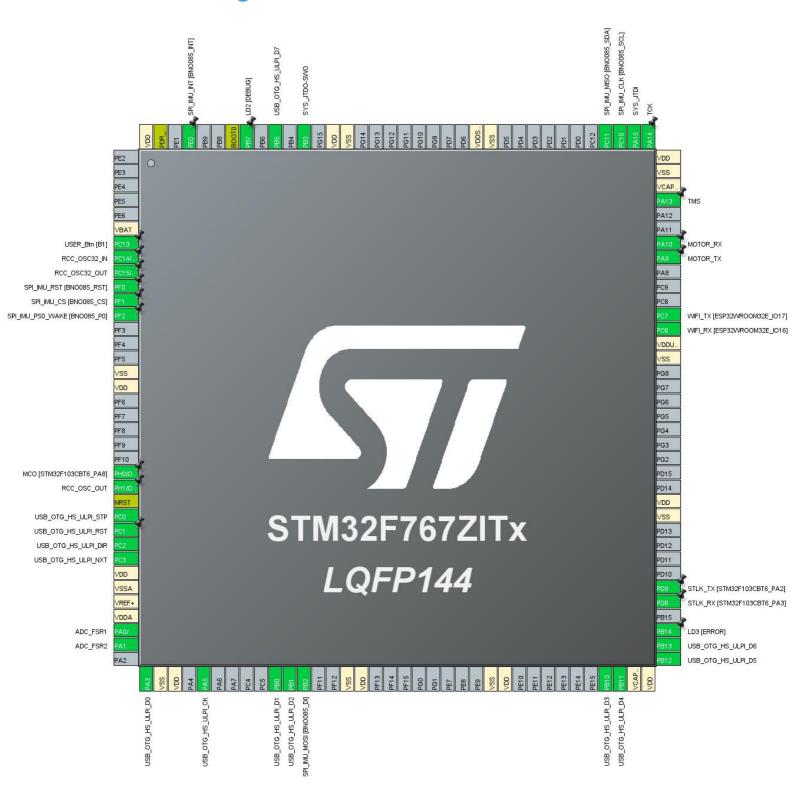
1.2. MCU

MCU Series	STM32F7
MCU Line	STM32F7x7
MCU name	STM32F767ZITx
MCU Package	LQFP144
MCU Pin number	144

1.3. Core(s) information

Core(s)	Arm Cortex-M7

2. Pinout Configuration



3. Pins Configuration

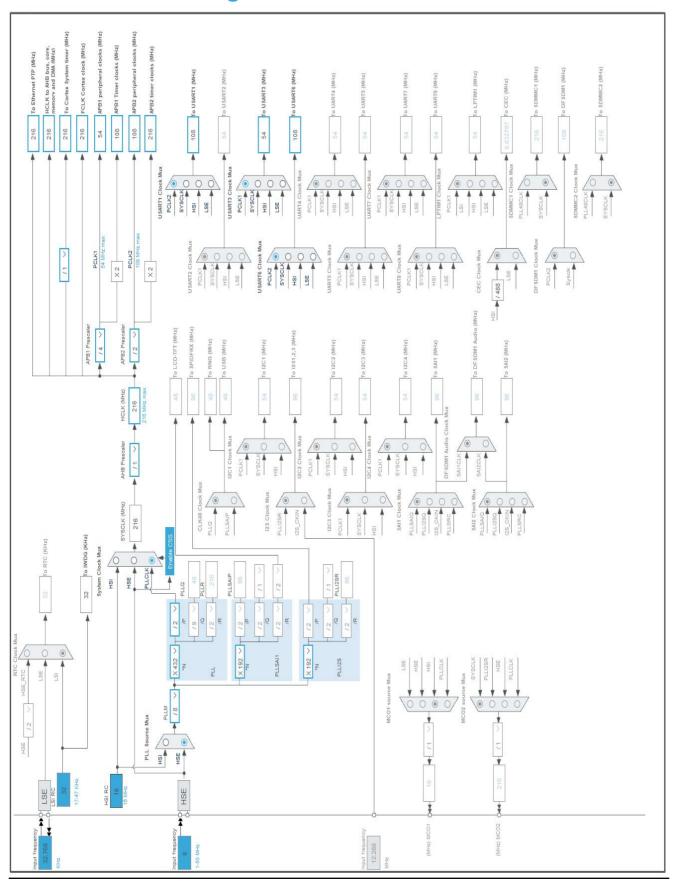
Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP144	(function after		Function(s)	
	reset)			
6	VBAT	Power		
7	PC13	I/O	GPIO_EXTI13	USER_Btn [B1]
8	PC14/OSC32_IN	I/O	RCC_OSC32_IN	
9	PC15/OSC32_OUT	I/O	RCC_OSC32_OUT	
10	PF0 *	I/O	GPIO_Output	SPI_IMU_RST [BNO085_RST]
11	PF1 *	I/O	GPIO_Output	SPI_IMU_CS [BNO085_CS]
12	PF2 *	I/O	GPIO_Output	SPI_IMU_PS0_WAKE [BNO085_P0]
16	VSS	Power		
17	VDD	Power		
23	PH0/OSC_IN	I/O	RCC_OSC_IN	MCO [STM32F103CBT6_PA8]
24	PH1/OSC_OUT	I/O	RCC_OSC_OUT	
25	NRST	Reset		
26	PC0	I/O	USB_OTG_HS_ULPI_STP	
27	PC1 *	I/O	GPIO_Output	USB_OTG_HS_ULPI_RST
28	PC2	I/O	USB_OTG_HS_ULPI_DIR	
29	PC3	I/O	USB_OTG_HS_ULPI_NXT	
30	VDD	Power		
31	VSSA	Power		
32	VREF+	Power		
33	VDDA	Power		
34	PA0/WKUP	I/O	ADC1_IN0	ADC_FSR1
35	PA1	I/O	ADC1_IN1	ADC_FSR2
37	PA3	I/O	USB_OTG_HS_ULPI_D0	
38	VSS	Power		
39	VDD	Power		
41	PA5	I/O	USB_OTG_HS_ULPI_CK	
46	PB0	I/O	USB_OTG_HS_ULPI_D1	
47	PB1	I/O	USB_OTG_HS_ULPI_D2	
48	PB2	I/O	SPI3_MOSI	SPI_IMU_MOSI [BNO085_DI]
51	VSS	Power		
52	VDD	Power		
61	VSS	Power		

Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP144	(function after		Function(s)	
	reset)			
62	VDD	Power		
69	PB10	I/O	USB_OTG_HS_ULPI_D3	
70	PB11	I/O	USB_OTG_HS_ULPI_D4	
71	VCAP_1	Power		
72	VDD	Power		
73	PB12	I/O	USB_OTG_HS_ULPI_D5	
74	PB13	I/O	USB_OTG_HS_ULPI_D6	
75	PB14 *	I/O	GPIO_Output	LD3 [ERROR]
77	PD8	I/O	USART3_TX	STLK_RX [STM32F103CBT6_PA3]
78	PD9	I/O	USART3_RX	STLK_TX [STM32F103CBT6_PA2]
83	VSS	Power		
84	VDD	Power		
94	VSS	Power		
95	VDDUSB	Power		
96	PC6	I/O	USART6_TX	WIFI_RX [ESP32WROOM32E_IO16]
97	PC7	I/O	USART6_RX	WIFI_TX [ESP32WROOM32E_IO17]
101	PA9	I/O	USART1_TX	MOTOR_TX
102	PA10	I/O	USART1_RX	MOTOR_RX
105	PA13	I/O	SYS_JTMS-SWDIO	TMS
106	VCAP_2	Power		
107	VSS	Power		
108	VDD	Power		
109	PA14	I/O	SYS_JTCK-SWCLK	TCK
110	PA15	I/O	SYS_JTDI	
111	PC10	I/O	SPI3_SCK	SPI_IMU_CLK [BNO085_SCL]
112	PC11	I/O	SPI3_MISO	SPI_IMU_MISO [BNO085_SDA]
120	VSS	Power		
121	VDDSDMMC	Power		
130	VSS	Power		
131	VDD	Power		
133	PB3	I/O	SYS_JTDO-SWO	
135	PB5	I/O	USB_OTG_HS_ULPI_D7	
137	PB7 *	I/O	GPIO_Output	LD2 [DEBUG]
138	воото	Boot		

Pin Number LQFP144	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
141	PE0	I/O	GPIO_EXTI0	SPI_IMU_INT [BNO085_INT]
143	PDR_ON	Reset		
144	VDD	Power		

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

4. Clock Tree Configuration



1. Power Consumption Calculator report

1.1. Microcontroller Selection

Series	STM32F7
Line	STM32F7x7
мси	STM32F767ZITx
Datasheet	DS11532_Rev4

1.2. Parameter Selection

Temperature	25
Vdd	3.3

1.3. Battery Selection

Battery	Alkaline(9V)	
Capacity	625.0 mAh	
Self Discharge	0.3 %/month	
Nominal Voltage	9.0 V	
Max Cont Current	200.0 mA	
Max Pulse Current	0.0 mA	
Cells in series	1	
Cells in parallel	1	

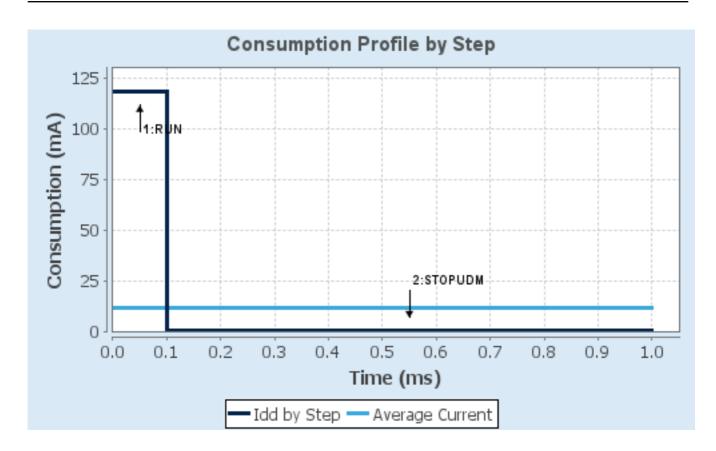
1.4. Sequence

Step	Step1	Step2
Mode	RUN	STOP UDM (Under Drive)
Vdd	3.3	3.3
Voltage Source	Battery	Battery
Range	Scale1-High	No Scale
Fetch Type	ICTM FLASH-SingleBank REGON	n/a
CPU Frequency	216 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	118 mA	130 μΑ
Duration	0.1 ms	0.9 ms
DMIPS	462.0	0.0
Ta Max	89.42	104.98
Category	In DS Table	In DS Table

1.5. Results

Sequence Time	1 ms	Average Current	11.92 mA
Battery Life	2 days, 4 hours	Average DMIPS	462.24005
			DMIPS

1.6. Chart



2. Software Project

2.1. Project Settings

Name	Value
Project Name	RoboSoccer_F767ZI
Project Folder	C:\Users\Bowen\Documents\UW_Files\Proj\RoboSoccer_F767ZI
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_F7 V1.17.3
Application Structure	Advanced
Generate Under Root	Yes
Do not generate the main()	No
Minimum Heap Size	0x200
Minimum Stack Size	0x400

2.2. Code Generation Settings

Name	Value
STM32Cube MCU packages and embedded software	Copy only the necessary library files
Generate peripheral initialization as a pair of '.c/.h' files	Yes
Backup previously generated files when re-generating	Yes
Keep User Code when re-generating	Yes
Delete previously generated files when not re-generated	Yes
Set all free pins as analog (to optimize the power	No
consumption)	
Enable Full Assert	No

2.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	SystemClock_Config	RCC
2	MX_GPIO_Init	GPIO
3	MX_DMA_Init	DMA
4	MX_USART3_UART_Init	USART3
5	MX_ADC1_Init	ADC1
6	MX_TIM2_Init	TIM2
7	MX_SPI3_Init	SPI3
8	MX_USART1_UART_Init	USART1
9	MX_IWDG_Init	IWDG
10	MX_USB_DEVICE_Init USB_DEVICE	
11	MX_USART6_UART_Init	USART6

RoboSoccer_F767ZI Project Configuration Report

3. Peripherals and Middlewares Configuration

3.1. ADC1 mode: IN0 mode: IN1

mode: Temperature Sensor Channel

mode: Vrefint Channel3.1.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler PCLK2 divided by 6 *

Resolution 8 bits (11 ADC Clock cycles) *

Data Alignment Right alignment

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

End Of Conversion Selection EOC flag at the end of single channel conversion

ADC_Regular_ConversionMode:

Number Of Conversion 4 *

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None
Rank 1

Channel 0
Sampling Time 480 Cycles *

<u>Rank</u> 2 *

Channel 1 *
Sampling Time 480 Cycles *

<u>Rank</u> 3 *

Channel Temperature Sensor *

Sampling Time 28 Cycles *

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

Channel Vrefint *

Sampling Time 28 Cycles *

ADC_Injected_ConversionMode:

Number Of Conversions 0

WatchDog:

Enable Analog WatchDog Mode false

3.2. **IWDG**

mode: Activated

3.2.1. Parameter Settings:

Watchdog Clocking:

IWDG counter clock prescaler
IWDG window value
IWDG down-counter reload value
32 *
4095
IWDG down-counter reload value
999 *

3.3. RCC

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

3.3.1. Parameter Settings:

System Parameters:

VDD voltage (V) 3.3

Flash Latency(WS) 7 WS (8 CPU cycle)

RCC Parameters:

HSI Calibration Value 16

TIM Prescaler Selection Disabled

HSE Startup Timout Value (ms) 100

LSE Startup Timout Value (ms) 5000

Power Parameters:

Power Over Drive Enabled

Power Regulator Voltage Scale Power Regulator Voltage Scale 1

3.4. SPI3

Mode: Full-Duplex Master 3.4.1. Parameter Settings:

Basic Parameters:

Frame Format Motorola

Data Size 8 Bits *
First Bit MSB First

Clock Parameters:

Prescaler (for Baud Rate) 32 *

Baud Rate 1.6875 MBits/s *

Clock Polarity (CPOL) High *
Clock Phase (CPHA) 2 Edge *

Advanced Parameters:

CRC Calculation Disabled NSS Signal Type Software

3.5. SYS

Debug: JTAG (4 pins)
Timebase Source: TIM6

3.6. TIM2

Clock Source: Internal Clock

3.6.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 107 *

Counter Mode Up

Counter Period (AutoReload Register - 32 bits value) 0xFFFFFFF
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 Reset (UG bit from TIMx_EGR)

3.7. **USART1**

Mode: Asynchronous

3.7.1. Parameter Settings:

Basic Parameters:

Baud Rate 1000000 *

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

3.8. **USART3**

Mode: Asynchronous

3.8.1. 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

3.9. **USART6**

Mode: Asynchronous

3.9.1. 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:

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

3.10. **USB_OTG_HS**

External Phy: Device_Only

3.10.1. Parameter Settings:

Speed Device High Speed 480MBit/s

Enable internal IP DMA

Physical interface

External Phy
Low power

Disabled

Link Power Management

Use dedicated end point 1 interrupt

VBUS sensing

Disabled

Signal start of frame

Disabled

3.11. FREERTOS

Interface: CMSIS_V2

3.11.1. Config parameters:

API:

FreeRTOS API CMSIS v2

Versions:

FreeRTOS version 10.2.1 CMSIS-RTOS version 2.00

MPU/FPU:

ENABLE_MPU Disabled ENABLE_FPU Disabled

Kernel settings:

USE_PREEMPTION Enabled

CPU_CLOCK_HZ SystemCoreClock

TICK_RATE_HZ 1000
MAX_PRIORITIES 56
MINIMAL_STACK_SIZE 256
MAX_TASK_NAME_LEN 16

USE_16_BIT_TICKS Disabled
IDLE_SHOULD_YIELD Enabled
USE_MUTEXES Enabled
USE_RECURSIVE_MUTEXES Enabled
USE_COUNTING_SEMAPHORES Enabled
QUEUE_REGISTRY_SIZE 8

USE_APPLICATION_TASK_TAG Disabled
ENABLE_BACKWARD_COMPATIBILITY Enabled
USE_PORT_OPTIMISED_TASK_SELECTION Disabled
USE_TICKLESS_IDLE Disabled
USE_TASK_NOTIFICATIONS Enabled

RECORD_STACK_HIGH_ADDRESS Enabled **

Memory management settings:

Memory Allocation Dynamic / Static

TOTAL_HEAP_SIZE 15360

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 Option2 *

Run time and task stats gathering related definitions:

GENERATE_RUN_TIME_STATS

USE_TRACE_FACILITY

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

Added with 10.2.1 support:

MESSAGE_BUFFER_LENGTH_TYPE size_t
USE_POSIX_ERRNO Disabled

3.11.2. Include parameters:

Include definitions:

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

xTaskAbortDelay Disabled
xTaskGetHandle Disabled
uxTaskGetStackHighWaterMark2 Disabled

3.11.3. Advanced settings:

Newlib settings (see parameter description first):

Project settings (see parameter description first):

Use FW pack heap file Enabled

3.12. USB_DEVICE

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

3.12.1. Parameter Settings:

Basic Parameters:

USBD_MAX_NUM_INTERFACES (Maximum number of supported interfaces) 1

USBD_MAX_NUM_CONFIGURATION (Maximum number of supported configuration) 1

USBD_MAX_STR_DESC_SIZ (Maximum size for the string descriptors) 512

USBD_SELF_POWERED (Enabled self power) Enabled

USBD_DEBUG_LEVEL (USBD Debug Level) 0: No debug message

USBD_LPM_ENABLED (Link Power Management) 1: Link Power Management supported

Class Parameters:

USB CDC Tx Buffer Size 2048
USB CDC Tx Buffer Size 2048

3.12.2. Device Descriptor:

Device Descriptor:

VID (Vendor IDentifier) 1155

LANGID_STRING (Language Identifier) English(United States)

MANUFACTURER_STRING (Manufacturer Identifier) STMicroelectronics

Device Descriptor HS:

PID (Product IDentifier) 22336

PRODUCT_STRING (Product Identifier) STM32 Virtual ComPort

CONFIGURATION_STRING (Configuration Identifier)

INTERFACE_STRING (Interface Identifier)

CDC Interface

RoboSoccer_F767ZI Project
Configuration Repor

* User modified value		

4. System Configuration

4.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
ADC1	PA0/WKUP	ADC1_IN0	Analog mode	No pull-up and no pull-down	n/a	ADC_FSR1
	PA1	ADC1_IN1	Analog mode	No pull-up and no pull-down	n/a	ADC_FSR2
RCC	PC14/OSC3 2_IN	RCC_OSC32_IN	n/a	n/a	n/a	
	PC15/OSC3 2_OUT	RCC_OSC32_O UT	n/a	n/a	n/a	
	PH0/OSC_I	RCC_OSC_IN	n/a	n/a	n/a	MCO [STM32F103CBT6_PA8]
	PH1/OSC_O UT	RCC_OSC_OUT	n/a	n/a	n/a	
SPI3	PB2	SPI3_MOSI	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	SPI_IMU_MOSI [BNO085_DI]
	PC10	SPI3_SCK	Alternate Function Push Pull	No pull-up and no pull-down	Very High	SPI_IMU_CLK [BNO085_SCL]
	PC11	SPI3_MISO	Alternate Function Push Pull	No pull-up and no pull-down	Very High	SPI_IMU_MISO [BNO085_SDA]
SYS	PA13	SYS_JTMS- SWDIO	n/a	n/a	n/a	TMS
	PA14	SYS_JTCK- SWCLK	n/a	n/a	n/a	тск
	PA15	SYS_JTDI	n/a	n/a	n/a	
	PB3	SYS_JTDO- SWO	n/a	n/a	n/a	
USART1	PA9	USART1_TX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	MOTOR_TX
	PA10	USART1_RX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	MOTOR_RX
USART3	PD8	USART3_TX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	STLK_RX [STM32F103CBT6_PA3]
	PD9	USART3_RX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	STLK_TX [STM32F103CBT6_PA2]
USART6	PC6	USART6_TX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	WIFI_RX [ESP32WROOM32E_IO16]
	PC7	USART6_RX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	WIFI_TX [ESP32WROOM32E_IO17

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	
USB_OTG_ HS	PC0	USB_OTG_HS_ ULPI_STP	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PC2	USB_OTG_HS_ ULPI_DIR	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PC3	USB_OTG_HS_ ULPI_NXT	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PA3	USB_OTG_HS_ ULPI_D0	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PA5	USB_OTG_HS_ ULPI_CK	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB0	USB_OTG_HS_ ULPI_D1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB1	USB_OTG_HS_ ULPI_D2	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB10	USB_OTG_HS_ ULPI_D3	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB11	USB_OTG_HS_ ULPI_D4	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB12	USB_OTG_HS_ ULPI_D5	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB13	USB_OTG_HS_ ULPI_D6	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PB5	USB_OTG_HS_ ULPI_D7	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
GPIO	PC13	GPIO_EXTI13	External Interrupt Mode with Rising edge trigger detection	No pull-up and no pull-down	n/a	USER_Btn [B1]
	PF0	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	SPI_IMU_RST [BNO085_RST]
	PF1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High	SPI_IMU_CS [BNO085_CS]
	PF2	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	SPI_IMU_PS0_WAKE [BNO085_P0]
	PC1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	USB_OTG_HS_ULPI_RST
	PB14	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD3 [ERROR]
	PB7	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD2 [DEBUG]
	PE0	GPIO_EXTI0	External Interrupt	Pull-up *	n/a	SPI_IMU_INT
			Mode with Falling	•		[BNO085_INT]
			edge trigger detection			

4.2. 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

4.3. NVIC configuration

4.3.1. NVIC

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	
EXTI line0 interrupt	true	4	0	
USART1 global interrupt	true	5	0	
USART3 global interrupt	true	5	0	
EXTI line[15:10] interrupts	true	5	0	
SPI3 global interrupt	true	5	0	
TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts	true	15	0	
DMA2 stream0 global interrupt	true	5	0	
USB On The Go HS 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		
TIM2 global interrupt	unused			
USART6 global interrupt	unused			
USB On The Go HS End Point 1 Out global interrupt	unused			
USB On The Go HS End Point 1 In global interrupt	unused			
FPU global interrupt		unused		

4.3.2. NVIC Code generation

Enabled interrupt Table	Select for init	Generate IRQ	Call HAL handler
	sequence ordering	handler	
Non maskable interrupt	false	true	false
Hard fault interrupt	false	true	false
Memory management fault	false	true	false
Pre-fetch fault, memory access fault	false	true	false
Undefined instruction or illegal state	false	true	false

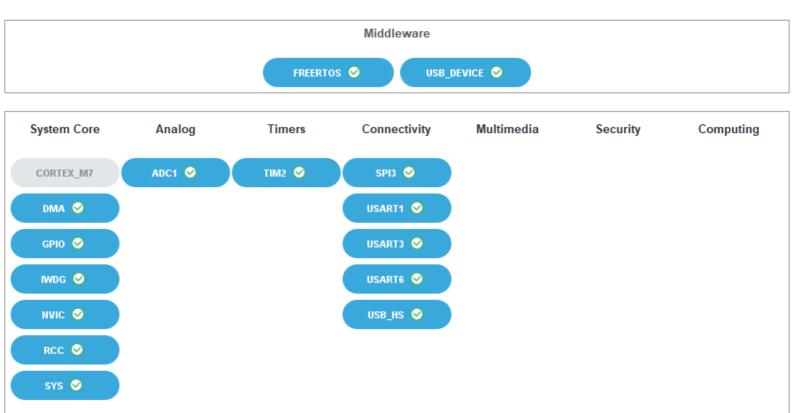
Enabled interrupt Table	Select for init sequence ordering	Generate IRQ handler	Call HAL handler
System service call via SWI instruction	false	false	false
Debug monitor	false	true	false
Pendable request for system service	false	false	false
System tick timer	false	false	true
EXTI line0 interrupt	false	true	true
USART1 global interrupt	false	true	true
USART3 global interrupt	false	true	true
EXTI line[15:10] interrupts	false	true	true
SPI3 global interrupt	false	true	true
TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts	false	true	true
DMA2 stream0 global interrupt	false	true	true
USB On The Go HS global interrupt	false	true	true

^{*} User modified value

5. System Views

5.1. Category view

5.1.1. Current



6. Docs & Resources

Type Link

BSDL files https://www.st.com/resource/en/bsdl_model/stm32f7_bsdl.zip

IBIS models https://www.st.com/resource/en/ibis_model/stm32f7_ibis.zip

System View https://www.st.com/resource/en/svd/stm32f7-svd.zip

Description

Presentations https://www.st.com/resource/en/product_presentation/stm32-

stm8_embedded_software_solutions.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32_eval-

tools_portfolio.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32_stm8_functi

onal-safety-packages.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32-

stm8_software_development_tools.pdf

Presentations https://www.st.com/resource/en/product_presentation/microcontrollers-

stm32-family-overview.pdf

Brochures https://www.st.com/resource/en/brochure/products-and-solutions-for-plcs-

and-smart-i-os.pdf

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