

1. Description

1.1. Project

Project Name	PROJEKT
Board Name	NUCLEO-F746ZG
Generated with:	STM32CubeMX 6.7.0
Date	01/25/2023

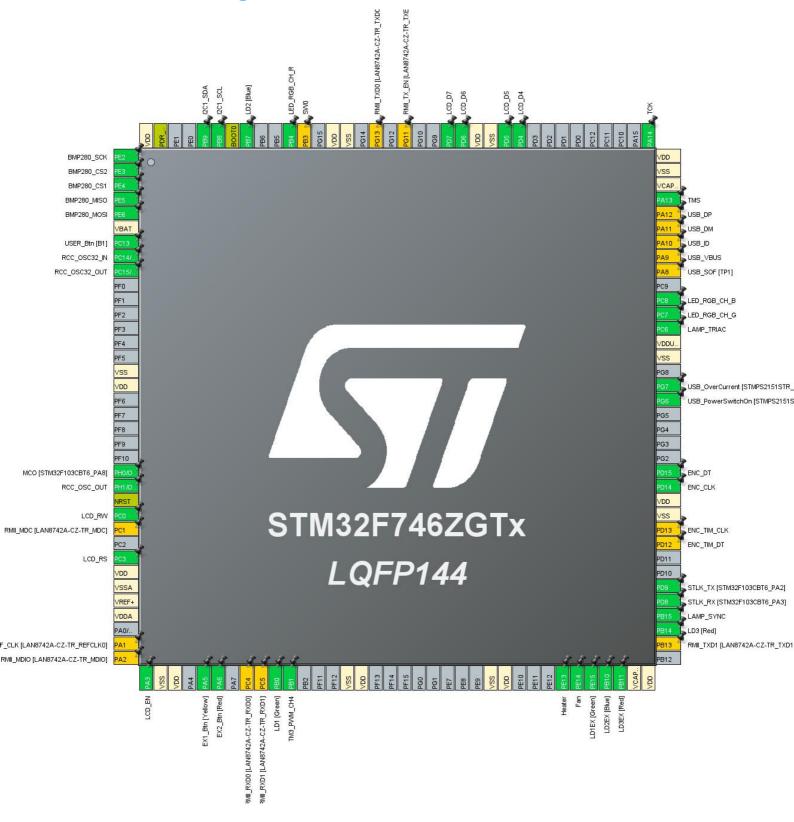
1.2. MCU

MCU Series	STM32F7
MCU Line	STM32F7x6
MCU name	STM32F746ZGTx
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)			
1	PE2	I/O	SPI4_SCK	BMP280_SCK
2	PE3 *	I/O	GPIO_Output	BMP280_CS2
3	PE4 *	I/O	GPIO_Output	BMP280_CS1
4	PE5	I/O	SPI4_MISO	BMP280_MISO
5	PE6	I/O	SPI4_MOSI	BMP280_MOSI
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	
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	GPIO_Output	LCD_RW
27	PC1 **	I/O	ETH_MDC	RMII_MDC [LAN8742A-CZ- TR_MDC]
29	PC3 *	I/O	GPIO_Output	LCD_RS
30	VDD	Power		
31	VSSA	Power		
32	VREF+	Power		
33	VDDA	Power		
35	PA1 **	I/O	ETH_REF_CLK	RMII_REF_CLK [LAN8742A-CZ- TR_REFCLK0]
36	PA2 **	I/O	ETH_MDIO	RMII_MDIO [LAN8742A-CZ- TR_MDIO]
37	PA3 *	I/O	GPIO_Output	LCD_EN
38	VSS	Power		
39	VDD	Power		
41	PA5	I/O	GPIO_EXTI5	EX1_Btn [Yellow]
42	PA6	I/O	GPIO_EXTI6	EX2_Btn [Red]
44	PC4 **	I/O	ETH_RXD0	RMII_RXD0 [LAN8742A-CZ- TR_RXD0]
45	PC5 **	I/O	ETH_RXD1	RMII_RXD1 [LAN8742A-CZ- TR_RXD1]

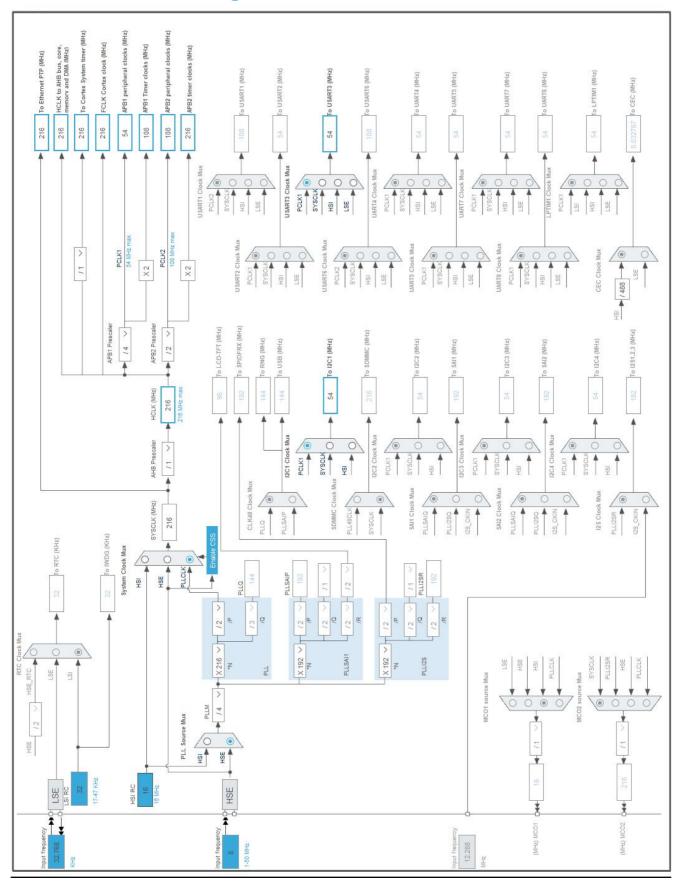
Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP144	(function after		Function(s)	
	reset)			
46	PB0 *	I/O	GPIO_Output	LD1 [Green]
47	PB1	I/O	TIM3_CH4	TM3_PWM_CH4
51	VSS	Power		
52	VDD	Power		
61	VSS	Power		
62	VDD	Power		
66	PE13 *	I/O	GPIO_Output	Heater
67	PE14 *	I/O	GPIO_Output	Fan
68	PE15 *	I/O	GPIO_Output	LD1EX [Green]
69	PB10 *	I/O	GPIO_Output	LD2EX [Blue]
70	PB11 *	I/O	GPIO_Output	LD3EX [Red]
71	VCAP_1	Power		
72	VDD	Power		
74	PB13 **	I/O	ETH_TXD1	RMII_TXD1 [LAN8742A-CZ-
				TR_TXD1]
75	PB14 *	I/O	GPIO_Output	LD3 [Red]
76	PB15	I/O	GPIO_EXTI15	LAMP_SYNC
77	PD8	I/O	USART3_TX	STLK_RX [STM32F103CBT6_PA3]
78	PD9	I/O	USART3_RX	STLK_TX [STM32F103CBT6_PA2]
81	PD12 **	I/O	TIM4_CH1	ENC_TIM_DT
82	PD13 **	I/O	TIM4_CH2	ENC_TIM_CLK
83	VSS	Power		
84	VDD	Power		
85	PD14	I/O	GPIO_EXTI14	ENC_CLK
86	PD15 *	I/O	GPIO_Input	ENC_DT
91	PG6 *	I/O	GPIO_Output	USB_PowerSwitchOn [STMPS2151STR_EN]
92	PG7 *	I/O	GPIO_Input	USB_OverCurrent [STMPS2151STR_FAULT]
94	VSS	Power		
95	VDDUSB	Power		
96	PC6 *	I/O	GPIO_Output	LAMP_TRIAC
97	PC7	I/O	TIM3_CH2	LED_RGB_CH_G
98	PC8	I/O	TIM3_CH3	LED_RGB_CH_B
100	PA8 **	I/O	USB_OTG_FS_SOF	USB_SOF [TP1]
101	PA9 **	I/O	USB_OTG_FS_VBUS	USB_VBUS
102	PA10 **	I/O	USB_OTG_FS_ID	USB_ID
103	PA11 **	I/O	USB_OTG_FS_DM	USB_DM

Pin Number LQFP144	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
104	PA12 **	I/O	USB_OTG_FS_DP	USB_DP
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
118	PD4 *	I/O	GPIO_Output	LCD_D4
119	PD5 *	I/O	GPIO_Output	LCD_D5
120	VSS	Power		
121	VDD	Power		
122	PD6 *	I/O	GPIO_Output	LCD_D6
123	PD7 *	I/O	GPIO_Output	LCD_D7
126	PG11 **	I/O	ETH_TX_EN	RMII_TX_EN [LAN8742A- CZ-TR_TXEN]
128	PG13 **	I/O	ETH_TXD0	RMII_TXD0 [LAN8742A-CZ- TR_TXD0]
130	VSS	Power		
131	VDD	Power		
133	PB3 **	I/O	SYS_JTDO-SWO	SW0
134	PB4	I/O	TIM3_CH1	LED_RGB_CH_R
137	PB7 *	I/O	GPIO_Output	LD2 [Blue]
138	воото	Boot		
139	PB8	I/O	I2C1_SCL	
140	PB9	I/O	I2C1_SDA	
143	PDR_ON	Reset		
144	VDD	Power		

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

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

4. Clock Tree Configuration



5. Software Project

5.1. Project Settings

Name	Value
Project Name	PROJEKT
Project Folder	C:\Users\Witold\Desktop\CHARON\SM-STM32-Project-main
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_F7 V1.17.0
Application Structure	Advanced
Generate Under Root	Yes
Do not generate the main()	No
Minimum Heap Size	0x200
Minimum Stack Size	0x400

5.2. 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	No
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

5.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	MX_GPIO_Init	GPIO
2	SystemClock_Config	RCC
3	MX_USART3_UART_Init	USART3
4	MX_TIM2_Init	TIM2
5	MX_TIM3_Init	TIM3
6	MX_TIM4_Init	TIM4
7	MX_I2C1_Init	I2C1
8	MX_SPI4_Init	SPI4
9	MX_TIM5_Init	TIM5
10	MX_TIM6_Init	TIM6
11	MX_TIM7_Init	TIM7

PROJEKT Projec
Configuration Repor

6. Power Consumption Calculator report

6.1. Microcontroller Selection

Series	STM32F7
Line	STM32F7x6
MCU	STM32F746ZGTx
Datasheet	DS10916_Rev4

6.2. Parameter Selection

Temperature	25
Vdd	3.3

6.3. 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

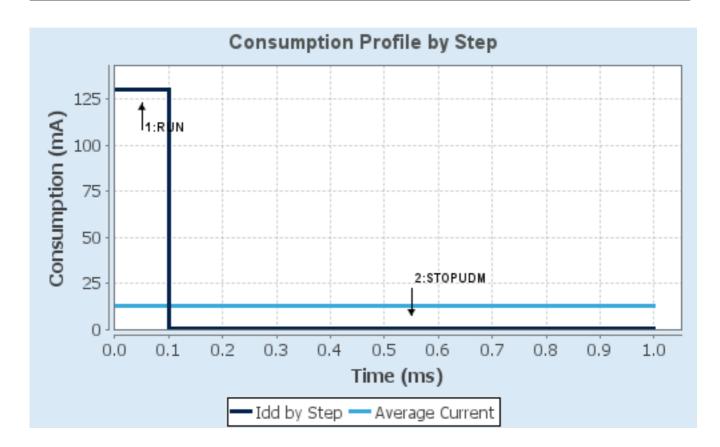
6.4. Sequence

Ston	Cton4	Ston 2
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	ITCM/FLASH/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	130 mA	100 μΑ
Duration	0.1 ms	0.9 ms
DMIPS	462.0	0.0
Ta Max	87.84	104.99
Category	In DS Table	In DS Table

6.5. Results

Sequence Time	1 ms	Average Current	13.09 mA
Battery Life	1 day, 23 hours	Average DMIPS	462.24005
			DMIPS

6.6. Chart



7. Peripherals and Middlewares Configuration

7.1. I2C1 I2C: I2C

7.1.1. Parameter Settings:

Timing configuration:

I2C Speed Mode Standard Mode

I2C Speed Frequency (KHz)100Rise Time (ns)0Fall Time (ns)0Coefficient of Digital Filter0

Analog Filter Enabled

Timing 0x20404768 *

Slave Features:

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

7.2. RCC

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

7.2.1. 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

7.3. SPI4

Mode: Full-Duplex Master

7.3.1. Parameter Settings:

Basic Parameters:

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

Clock Parameters:

Prescaler (for Baud Rate) 16 *

Baud Rate 6.75 MBits/s *

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

Advanced Parameters:

CRC Calculation Disabled Software NSS Signal Type

7.4. SYS

Debug: Serial Wire

Timebase Source: SysTick

7.5. TIM2

Clock Source : Internal Clock

7.5.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value)

107 * Counter Mode Up Counter Period (AutoReload Register - 32 bits value) 4999 * Internal Clock Division (CKD) No Division Disable auto-reload preload

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)

7.6. TIM3

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

7.6.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value)

Counter Mode

Counter Period (AutoReload Register - 16 bits value)

Internal Clock Division (CKD)

auto-reload preload

107 *

Up

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)

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 0
Output compare preload Enable
Fast Mode Disable
CH Polarity High

PWM Generation Channel 2:

Mode PWM mode 1

Pulse (16 bits value) 0
Output compare preload Enable
Fast Mode Disable
CH Polarity High

PWM Generation Channel 3:

Mode PWM mode 1

Pulse (16 bits value) 0

Output compare preload Enable

Fast Mode Disable

CH Polarity High

PWM Generation Channel 4:

Mode PWM mode 1

Pulse (16 bits value) 0

Output compare preload Enable

Fast Mode Disable

CH Polarity High

7.7. TIM4

Clock Source : Internal Clock

7.7.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value)

Counter Mode

Counter Period (AutoReload Register - 16 bits value)

Internal Clock Division (CKD)

auto-reload preload

107 *

Up

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)

7.8. TIM5

mode: Clock Source

7.8.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 107 *
Counter Mode Up

Counter Period (AutoReload Register - 32 bits value) 4294967295
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)

7.9. TIM6

mode: Activated

7.9.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 107 *

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 999 *

auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Trigger Event Selection Update Event *

7.10. TIM7

mode: Activated

7.10.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 107 *

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 999 *

auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Trigger Event Selection Reset (UG bit from TIMx_EGR)

7.11. USART3

Mode: Asynchronous

7.11.1. 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 Disable TX and RX Pins Swapping Overrun Enable DMA on RX Error Enable MSB First Disable

^{*} User modified value

8. System Configuration

8.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
I2C1	PB8	I2C1_SCL	Alternate Function Open Drain	Pull-up *	High *	
	PB9	I2C1_SDA	Alternate Function Open Drain	Pull-up *	High *	
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	
SPI4	PE2	SPI4_SCK	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	BMP280_SCK
	PE5	SPI4_MISO	Alternate Function Push Pull	No pull-up and no pull-down	Very High	BMP280_MISO
	PE6	SPI4_MOSI	Alternate Function Push Pull	No pull-up and no pull-down	Very High	BMP280_MOSI
SYS	PA13	SYS_JTMS- SWDIO	n/a	n/a	n/a	TMS
	PA14	SYS_JTCK- SWCLK	n/a	n/a	n/a	TCK
TIM3	PB1	TIM3_CH4	Alternate Function Push Pull	No pull-up and no pull-down	Low	TM3_PWM_CH4
	PC7	TIM3_CH2	Alternate Function Push Pull	No pull-up and no pull-down	Low	LED_RGB_CH_G
	PC8	TIM3_CH3	Alternate Function Push Pull	No pull-up and no pull-down	Low	LED_RGB_CH_B
	PB4	TIM3_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	LED_RGB_CH_R
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]
Single Mapped	PC1	ETH_MDC	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_MDC [LAN8742A- CZ-TR_MDC]
Signals	PA1	ETH_REF_CLK	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_REF_CLK [LAN8742A-CZ- TR_REFCLK0]
	PA2	ETH_MDIO	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_MDIO [LAN8742A- CZ-TR_MDIO]

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
	PC4	ETH_RXD0	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_RXD0 [LAN8742A- CZ-TR_RXD0]
	PC5	ETH_RXD1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_RXD1 [LAN8742A- CZ-TR_RXD1]
	PB13	ETH_TXD1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_TXD1 [LAN8742A- CZ-TR_TXD1]
	PD12	TIM4_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	ENC_TIM_DT
	PD13	TIM4_CH2	Alternate Function Push Pull	No pull-up and no pull-down	Low	ENC_TIM_CLK
	PA8	USB_OTG_FS_ SOF	Alternate Function Push Pull	No pull-up and no pull-down	Very High	USB_SOF [TP1]
	PA9	USB_OTG_FS_ VBUS	Input mode	No pull-up and no pull-down	n/a	USB_VBUS
	PA10	USB_OTG_FS_I D	Alternate Function Push Pull	No pull-up and no pull-down	Very High	USB_ID
	PA11	USB_OTG_FS_ DM	Alternate Function Push Pull	No pull-up and no pull-down	Very High	USB_DM
	PA12	USB_OTG_FS_ DP	Alternate Function Push Pull	No pull-up and no pull-down	Very High	USB_DP
	PG11	ETH_TX_EN	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_TX_EN [LAN8742A- CZ-TR_TXEN]
	PG13	ETH_TXD0	Alternate Function Push Pull	No pull-up and no pull-down	Very High	RMII_TXD0 [LAN8742A- CZ-TR_TXD0]
	PB3	SYS_JTDO- SWO	n/a	n/a	n/a	SW0
GPIO	PE3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High	BMP280_CS2
	PE4	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High	BMP280_CS1
	PC13	GPIO_EXTI13	External Interrupt Mode with Rising edge trigger detection	No pull-up and no pull-down	n/a	USER_Btn [B1]
	PC0	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_RW
	PC3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_RS
	PA3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_EN
	PA5	GPIO_EXTI5	External Interrupt	No pull-up and no pull-down	n/a	EX1_Btn [Yellow]
			Mode with Falling			
			edge trigger detection			
	PA6	GPIO_EXTI6	External Interrupt Mode with Rising edge trigger detection	No pull-up and no pull-down	n/a	EX2_Btn [Red]
	PB0	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD1 [Green]

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	
	PE13	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	Heater
	PE14	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	Fan
	PE15	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD1EX [Green]
	PB10	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD2EX [Blue]
	PB11	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD3EX [Red]
	PB14	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD3 [Red]
	PB15	GPIO_EXTI15	External Interrupt Mode with Rising edge trigger detection	No pull-up and no pull-down	n/a	LAMP_SYNC
	PD14	GPIO_EXTI14	External Interrupt Mode with Falling	No pull-up and no pull-down	n/a	ENC_CLK
			edge trigger detection			
	PD15	GPIO_Input	Input mode	No pull-up and no pull-down	n/a	ENC_DT
	PG6	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	USB_PowerSwitchOn [STMPS2151STR_EN]
	PG7	GPIO_Input	Input mode	No pull-up and no pull-down	n/a	USB_OverCurrent [STMPS2151STR_FAULT]
	PC6	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	LAMP_TRIAC
	PD4	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_D4
	PD5	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_D5
	PD6	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_D6
	PD7	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LCD_D7
	PB7	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LD2 [Blue]

8.2. DMA configuration

nothing configured in DMA service

8.3. NVIC configuration

8.3.1. 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	0	0	
System tick timer	true	0	0	
EXTI line[9:5] interrupts	true	0	0	
TIM2 global interrupt	true	0	0	
TIM4 global interrupt	true	0	0	
USART3 global interrupt	true	0	0	
EXTI line[15:10] interrupts	true	0	0	
PVD interrupt through EXTI line 16		unused		
Flash global interrupt		unused		
RCC global interrupt		unused		
TIM3 global interrupt		unused		
I2C1 event interrupt		unused		
I2C1 error interrupt		unused		
TIM5 global interrupt	unused			
TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts	unused			
TIM7 global interrupt	unused			
FPU global interrupt	unused			
SPI4 global interrupt	unused			

8.3.2. 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
System service call via SWI instruction	false	true	false
Debug monitor	false	true	false

Enabled interrupt Table	Select for init	Generate IRQ	Call HAL handler
	sequence ordering	handler	
Pendable request for system service	false	true	false
System tick timer	false	true	true
EXTI line[9:5] interrupts	false	true	true
TIM2 global interrupt	false	true	true
TIM4 global interrupt	false	true	true
USART3 global interrupt	false	true	true
EXTI line[15:10] interrupts	false	true	true

^{*} User modified value

9. System Views

9.1. Category view

9.1.1. Current



10. Docs & Resources

Link Type

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

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

https://www.st.com/resource/en/svd/stm32f7_svd.zip System View

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

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

onal-safety-packages.pdf

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

stm8_software_development_tools.pdf

Training Material https://www.st.com/resource/en/sales_guide/sg_sc2154.pdf

https://www.st.com/resource/en/brochure/brstm32f7.pdf **Brochures**

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