

1. Description

1.1. Project

Project Name	ProgramWithBSP
Board Name	STM32L476G-DISCO
Generated with:	STM32CubeMX 6.5.0
Date	06/11/2022

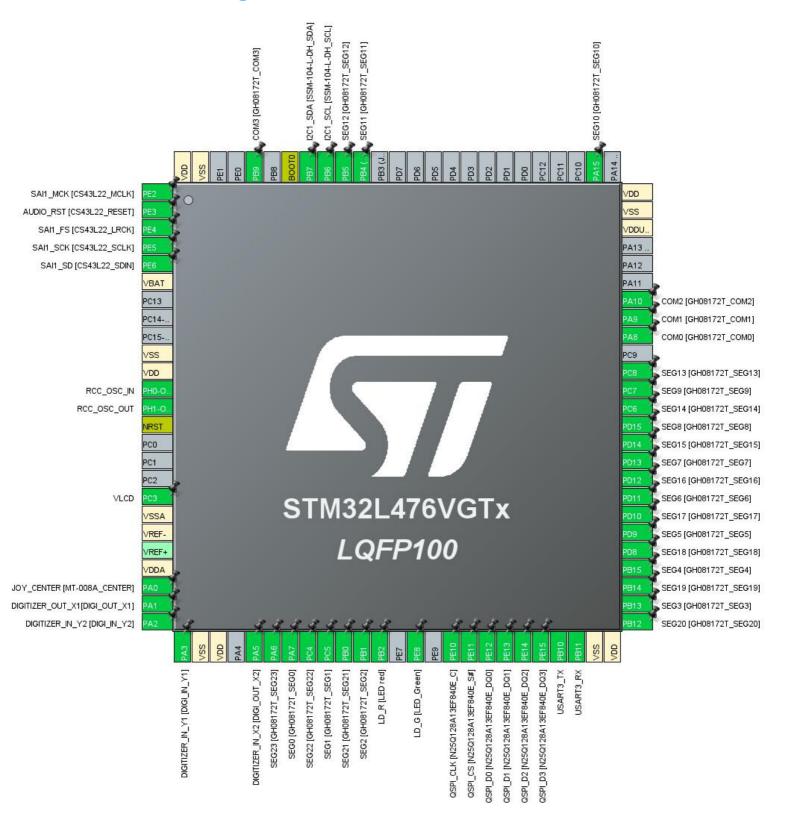
1.2. MCU

MCU Series	STM32L4
MCU Line	STM32L4x6
MCU name	STM32L476VGTx
MCU Package	LQFP100
MCU Pin number	100

1.3. Core(s) information

Core(s)	Arm Cortex-M4	

2. Pinout Configuration



3. Pins Configuration

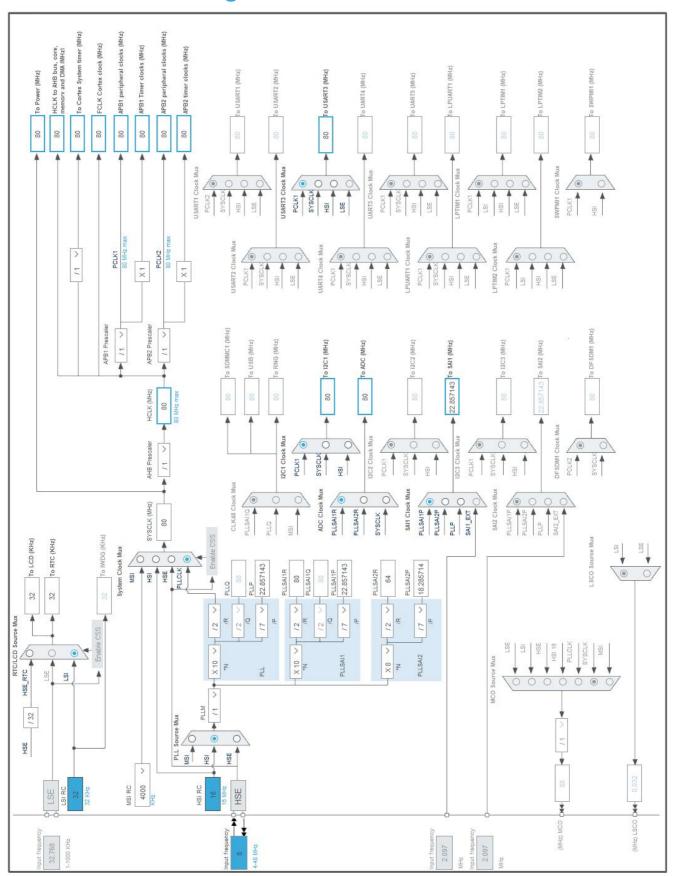
Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP100	(function after		Function(s)	
2011100	reset)		r driodori(o)	
1	PE2	I/O	SAI1_MCLK_A	SAI1_MCK [CS43L22_MCLK]
2	PE3 *	I/O	GPIO_Output	AUDIO_RST [CS43L22_RESET]
3	PE4	I/O	SAI1_FS_A	SAI1_FS [CS43L22_LRCK]
4	PE5	I/O	SAI1_SCK_A	SAI1_SCK [CS43L22_SCLK]
5	PE6	I/O	SAI1_SD_A	SAI1_SD [CS43L22_SDIN]
6	VBAT	Power		
10	VSS	Power		
11	VDD	Power		
12	PH0-OSC_IN (PH0)	I/O	RCC_OSC_IN	
13	PH1-OSC_OUT (PH1)	I/O	RCC_OSC_OUT	
14	NRST	Reset		
18	PC3	I/O	LCD_VLCD	VLCD
19	VSSA	Power		
20	VREF-	Power		
22	VDDA	Power		
23	PA0 *	I/O	GPIO_Input	JOY_CENTER [MT- 008A_CENTER]
24	PA1 *	I/O	GPIO_Output	DIGITIZER_OUT_X1[DIGI_ OUT_X1]
25	PA2 *	I/O	GPIO_Input	DIGITIZER_IN_Y2 [DIGI_IN_Y2]
26	PA3	I/O	ADC1_IN8	DIGITIZER_IN_Y1 [DIGI_IN_Y1]
27	VSS	Power		
28	VDD	Power		
30	PA5 *	I/O	GPIO_Output	DIGITIZER_IN_X2 [DIGI_OUT_X2]
31	PA6	I/O	LCD_SEG3	SEG23 [GH08172T_SEG23]
32	PA7	I/O	LCD_SEG4	SEG0 [GH08172T_SEG0]
33	PC4	I/O	LCD_SEG22	SEG22 [GH08172T_SEG22]
34	PC5	I/O	LCD_SEG23	SEG1 [GH08172T_SEG1]
35	PB0	I/O	LCD_SEG5	SEG21 [GH08172T_SEG21]
36	PB1	I/O	LCD_SEG6	SEG2 [GH08172T_SEG2]
37	PB2 *	I/O	GPIO_Output	LD_R [LED red]

Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP100	(function after		Function(s)	
	reset)		()	
39	PE8 *	I/O	GPIO_Output	LD_G [LED_Green]
41	PE10	I/O	QUADSPI_CLK	QSPI_CLK
				[N25Q128A13EF840E_C]
42	PE11	I/O	QUADSPI_NCS	QSPI_CS [N25Q128A13EF840E_S#]
43	PE12	I/O	QUADSPI_BK1_IO0	QSPI_D0 [N25Q128A13EF840E_DQ0]
44	PE13	I/O	QUADSPI_BK1_IO1	QSPI_D1 [N25Q128A13EF840E_DQ1]
45	PE14	I/O	QUADSPI_BK1_IO2	QSPI_D2 [N25Q128A13EF840E_DQ2]
46	PE15	I/O	QUADSPI_BK1_IO3	QSPI_D3 [N25Q128A13EF840E_DQ3]
47	PB10	I/O	USART3_TX	
48	PB11	I/O	USART3_RX	
49	VSS	Power		
50	VDD	Power		
51	PB12	I/O	LCD_SEG12	SEG20 [GH08172T_SEG20]
52	PB13	I/O	LCD_SEG13	SEG3 [GH08172T_SEG3]
53	PB14	I/O	LCD_SEG14	SEG19 [GH08172T_SEG19]
54	PB15	I/O	LCD_SEG15	SEG4 [GH08172T_SEG4]
55	PD8	I/O	LCD_SEG28	SEG18 [GH08172T_SEG18]
56	PD9	I/O	LCD_SEG29	SEG5 [GH08172T_SEG5]
57	PD10	I/O	LCD_SEG30	SEG17 [GH08172T_SEG17]
58	PD11	I/O	LCD_SEG31	SEG6 [GH08172T_SEG6]
59	PD12	I/O	LCD_SEG32	SEG16 [GH08172T_SEG16]
60	PD13	I/O	LCD_SEG33	SEG7 [GH08172T_SEG7]
61	PD14	I/O	LCD_SEG34	SEG15 [GH08172T_SEG15]
62	PD15	I/O	LCD_SEG35	SEG8 [GH08172T_SEG8]
63	PC6	I/O	LCD_SEG24	SEG14 [GH08172T_SEG14]
64	PC7	I/O	LCD_SEG25	SEG9 [GH08172T_SEG9]
65	PC8	I/O	LCD_SEG26	SEG13 [GH08172T_SEG13]
67	PA8	I/O	LCD_COM0	COM0 [GH08172T_COM0]
68	PA9	I/O	LCD_COM1	COM1 [GH08172T_COM1]
69	PA10	I/O	LCD_COM2	COM2 [GH08172T_COM2]
73	VDDUSB	Power		
74	VSS	Power		

Pin Number LQFP100	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
75	VDD	Power		
77	PA15 (JTDI)	I/O	LCD_SEG17	SEG10 [GH08172T_SEG10]
90	PB4 (NJTRST)	I/O	LCD_SEG8	SEG11 [GH08172T_SEG11]
91	PB5	I/O	LCD_SEG9	SEG12 [GH08172T_SEG12]
92	PB6	I/O	I2C1_SCL	I2C1_SCL [SSM-104-L- DH_SCL]
93	PB7	I/O	I2C1_SDA	I2C1_SDA [SSM-104-L- DH_SDA]
94	воото	Boot		
96	PB9	I/O	LCD_COM3	COM3 [GH08172T_COM3]
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	ProgramWithBSP
Project Folder	C:\Users\tomas\STM32CubeIDE\workspace_1.9.0\ProgramWithBSP
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_L4 V1.17.1
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	No
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 consumption)	No
Enable Full Assert	No

5.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	SystemClock_Config	RCC
2	MX_GPIO_Init	GPIO
3	MX_LCD_Init	LCD
4	MX_QUADSPI_Init	QUADSPI
5	MX_RTC_Init	RTC
6	MX_I2C1_Init	I2C1
7	MX_DMA_Init	DMA
8	MX_USART3_UART_Init	USART3
9	MX_SAI1_Init	SAI1
10	MX_ADC1_Init	ADC1

ProgramWithBSP Project Configuration Report
John garation respon

6. Power Consumption Calculator report

6.1. Microcontroller Selection

Series	STM32L4
Line	STM32L4x6
MCU	STM32L476VGTx
Datasheet	DS10198_Rev4

6.2. Parameter Selection

Temperature	25
Vdd	3.0

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

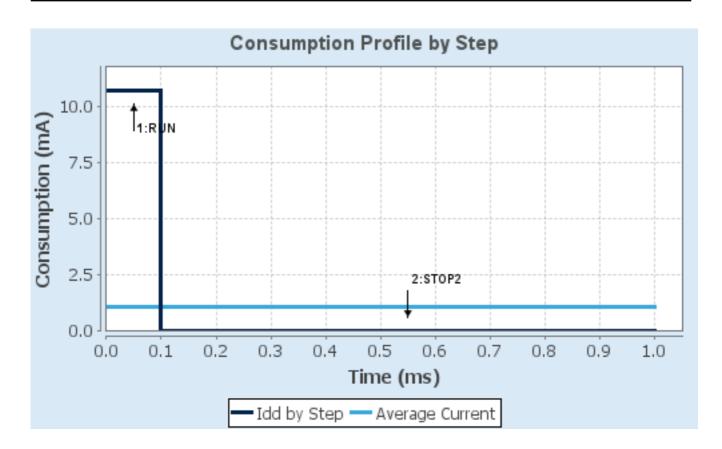
6.4. Sequence

Step	Step1	Step2
Mode	RUN	STOP2
Vdd	3.0	3.0
Voltage Source	Battery	Battery
Range	Range1-High	NoRange
Fetch Type	SRAM2	n/a
CPU Frequency	80 MHz	0 Hz
Clock Configuration	HSE PLL	ALL CLOCKS OFF
Clock Source Frequency	4 MHz	0 Hz
Peripherals		
Additional Cons.	0 mA	0 mA
Average Current	10.7 mA	1.18 μΑ
Duration	0.1 ms	0.9 ms
DMIPS	100.0	0.0
Ta Max	103.65	105
Category	In DS Table	In DS Table

6.5. Results

Sequence Time	1 ms	Average Current	1.07 mA
Battery Life	4 months, 10	Average DMIPS	100.0 DMIPS
	days, 3 hours	_	

6.6. Chart



7. Peripherals and Middlewares Configuration

7.1. ADC1

IN8: IN8 Single-ended

7.1.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler Asynchronous clock mode divided by 1

Resolution ADC 8-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 8

Sampling Time 247.5 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

7.2. I2C1 I2C: I2C

7.2.1. Parameter Settings:

Timing configuration:

Custom Timing Disabled
I2C Speed Mode Standard Mode

I2C Speed Frequency (KHz)100Rise Time (ns)0Fall Time (ns)0Coefficient of Digital Filter0Analog FilterEnabled

Timing 0x10909CEC *

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

7.3. LCD

Mode: 1/4 Duty Cycle

mode: SEG3
mode: SEG4
mode: SEG5
mode: SEG6
mode: SEG8
mode: SEG9
mode: SEG12
mode: SEG13
mode: SEG14
mode: SEG15
mode: SEG17
mode: SEG22
mode: SEG23

mode: SEG24

mode: SEG25
mode: SEG26
mode: SEG28
mode: SEG29
mode: SEG30
mode: SEG31
mode: SEG32
mode: SEG33
mode: SEG33
mode: SEG34
mode: SEG35

7.3.1. Parameter Settings:

Clock Parameters:

Clock Prescaler 1
Clock Divider 31 *

Basic Parameters:

Duty Selection 1/4
Bias Selector 1/3 *
Multiplex mode Disable

Advanced Parameters:

Voltage Source Selection

Contrast Control

Dead Time Duration

High Drive

Pulse ON Duration

Blink Mode

Blink Frequency

Internal

2.86V *

No dead Time

Disable

4/CK_PS *

Disabled

FLCD/32 *

7.4. QUADSPI

Single Bank: Quad SPI Line

7.4.1. Parameter Settings:

General Parameters:

Clock Prescaler 1 *
Fifo Threshold 4 *

Sample Shifting Half Cycle *

Flash Size 24 *
Chip Select High Time 1 Cycle
Clock Mode Low

7.5. RCC

High Speed Clock (HSE): Crystal/Ceramic Resonator

7.5.1. Parameter Settings:

System Parameters:

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

Flash Latency(WS) 4 WS (5 CPU cycle)

RCC Parameters:

HSI Calibration Value 16

MSI Calibration Value 0

MSI Auto Calibration Disabled

HSE Startup Timout Value (ms) 100

LSE Startup Timout Value (ms) 5000

Power Parameters:

Power Regulator Voltage Scale Power Regulator Voltage Scale 1

7.6. RTC

mode: Activate Clock Source

7.6.1. Parameter Settings:

General:

Hour Format Hourformat 24

Asynchronous Predivider value 127 Synchronous Predivider value 255

7.7. SAI1

Mode: Master with Master Clock Out

mode: I2S/PCM Protocol

7.7.1. Parameter Settings:

SAI A:

Synchronization Inputs Asynchronous

Basic Parameters

Audio Mode Master Transmit

Output Mode Stereo

Companding Mode No companding mode

SAI SD Line Output Mode Driven

Protocol Parameters

Protocol I2S Standard
Data Size 16 Bits
Number of Slots (only Even Values) 2

Clock Parameters

Master Clock Divider

Audio Frequency

Real Audio Frequency

44.1 KHz *

44.642 KHz *

Error between Selected

1.45 % *

Advanced Parameters

Fifo Threshold Empty
Output Drive Disabled

7.8. SYS

Timebase Source: SysTick

7.9. **USART3**

Mode: Asynchronous

7.9.1. Parameter Settings:

Basic Parameters:

Baud Rate 9600 *

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 Disable Data Inversion TX and RX Pins Swapping Disable Enable Overrun 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
ADC1	PA3	ADC1_IN8	Analog mode for ADC conversion	No pull-up and no pull-down	n/a	DIGITIZER_IN_Y1 [DIGI_IN_Y1]
I2C1	PB6	I2C1_SCL	Alternate Function Open Drain	Pull-up *	Very High	I2C1_SCL [SSM-104-L- DH_SCL]
	PB7	I2C1_SDA	Alternate Function Open Drain	Pull-up *	Very High	I2C1_SDA [SSM-104-L- DH_SDA]
LCD	PC3	LCD_VLCD	Alternate Function Push Pull	No pull-up and no pull-down	Low	VLCD
	PA6	LCD_SEG3	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG23 [GH08172T_SEG23]
	PA7	LCD_SEG4	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG0 [GH08172T_SEG0]
	PC4	LCD_SEG22	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG22 [GH08172T_SEG22]
	PC5	LCD_SEG23	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG1 [GH08172T_SEG1]
	PB0	LCD_SEG5	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG21 [GH08172T_SEG21]
	PB1	LCD_SEG6	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG2 [GH08172T_SEG2]
	PB12	LCD_SEG12	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG20 [GH08172T_SEG20]
	PB13	LCD_SEG13	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG3 [GH08172T_SEG3]
	PB14	LCD_SEG14	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG19 [GH08172T_SEG19]
	PB15	LCD_SEG15	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG4 [GH08172T_SEG4]
	PD8	LCD_SEG28	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG18 [GH08172T_SEG18]
	PD9	LCD_SEG29	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG5 [GH08172T_SEG5]
	PD10	LCD_SEG30	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG17 [GH08172T_SEG17]
	PD11	LCD_SEG31	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG6 [GH08172T_SEG6]
	PD12	LCD_SEG32	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG16 [GH08172T_SEG16]
	PD13	LCD_SEG33	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG7 [GH08172T_SEG7]
	PD14	LCD_SEG34	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG15 [GH08172T_SEG15]
	PD15	LCD_SEG35	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG8 [GH08172T_SEG8]
	PC6	LCD_SEG24	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG14 [GH08172T_SEG14]
	PC7	LCD_SEG25	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG9 [GH08172T_SEG9]
	PC8	LCD_SEG26	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG13

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
				down	Speed	[GH08172T_SEG13]
	PA8	LCD_COM0	Alternate Function Push Pull	No pull-up and no pull-down	Low	COM0 [GH08172T_COM0]
	PA9	LCD_COM1	Alternate Function Push Pull	No pull-up and no pull-down	Low	COM1 [GH08172T_COM1]
	PA10	LCD_COM2	Alternate Function Push Pull	No pull-up and no pull-down	Low	COM2 [GH08172T_COM2]
	PA15 (JTDI)	LCD_SEG17	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG10 [GH08172T_SEG10]
	PB4 (NJTRST)	LCD_SEG8	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG11 [GH08172T_SEG11]
	PB5	LCD_SEG9	Alternate Function Push Pull	No pull-up and no pull-down	Low	SEG12 [GH08172T_SEG12]
	PB9	LCD_COM3	Alternate Function Push Pull	No pull-up and no pull-down	Low	COM3 [GH08172T_COM3]
QUADSPI	PE10	QUADSPI_CLK	Alternate Function Push Pull	No pull-up and no pull-down	Very High	QSPI_CLK [N25Q128A13EF840E_C]
	PE11	QUADSPI_NCS	Alternate Function Push Pull	No pull-up and no pull-down	Very High	QSPI_CS [N25Q128A13EF840E_S#]
	PE12	QUADSPI_BK1_I O0	Alternate Function Push Pull	No pull-up and no pull-down	Very High	QSPI_D0 [N25Q128A13EF840E_DQ 0]
	PE13	QUADSPI_BK1_I O1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	QSPI_D1 [N25Q128A13EF840E_DQ 1]
	PE14	QUADSPI_BK1_I O2	Alternate Function Push Pull	No pull-up and no pull-down	Very High	QSPI_D2 [N25Q128A13EF840E_DQ 2]
	PE15	QUADSPI_BK1_I O3	Alternate Function Push Pull	No pull-up and no pull-down	Very High	QSPI_D3 [N25Q128A13EF840E_DQ 3]
RCC	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	
SAI1	PE2	SAI1_MCLK_A	Alternate Function Push Pull	No pull-up and no pull-down	Very High	SAI1_MCK [CS43L22_MCLK]
	PE4	SAI1_FS_A	Alternate Function Push Pull	No pull-up and no pull-down	Very High	SAI1_FS [CS43L22_LRCK]
	PE5	SAI1_SCK_A	Alternate Function Push Pull	No pull-up and no pull-down	Very High	SAI1_SCK [CS43L22_SCLK]
	PE6	SAI1_SD_A	Alternate Function Push Pull	No pull-up and no pull-down	Very High	SAI1_SD [CS43L22_SDIN]
USART3	PB10	USART3_TX	Alternate Function Push Pull	No pull-up and no pull-down	Very High	

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
					*	
	PB11	USART3_RX	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	
GPIO	PE3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	AUDIO_RST [CS43L22_RESET]
	PA0	GPIO_Input	Input mode	Pull-down *	n/a	JOY_CENTER [MT- 008A_CENTER]
	PA1	GPIO_Output	Output Push Pull	Pull-up *	Low	DIGITIZER_OUT_X1[DIGI _OUT_X1]
	PA2	GPIO_Input	Input mode	No pull-up and no pull-down	n/a	DIGITIZER_IN_Y2 [DIGI_IN_Y2]
	PA5	GPIO_Output	Output Push Pull	Pull-down *	Low	DIGITIZER_IN_X2 [DIGI_OUT_X2]
	PB2	GPIO_Output	Output Push Pull	Pull-up *	Very High *	LD_R [LED red]
	PE8	GPIO_Output	Output Push Pull	Pull-up *	Very High	LD_G [LED_Green]

8.2. DMA configuration

DMA request	Stream	Direction	Priority
SAI1_A	DMA2_Channel1	Memory To Peripheral	Low

SAI1_A: DMA2_Channel1 DMA request Settings:

Mode: Circular *

Peripheral Increment: Disable

Memory Increment: Enable *

Peripheral Data Width: Half Word *

Memory Data Width: Half Word *

8.3. NVIC configuration

8.3.1. NVIC

Interrupt Table	Enoble	Droopmetica Driority	CubDriority
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	0	0
System tick timer	true	0	0
ADC1 and ADC2 interrupts	true	0	0
DMA2 channel1 global interrupt	true	0	0
SAI1 global interrupt	true	0	0
PVD/PVM1/PVM2/PVM3/PVM4 interrupts through EXTI lines 16/35/36/37/38	unused		
Flash global interrupt		unused	
RCC global interrupt		unused	
I2C1 event interrupt		unused	
I2C1 error interrupt	unused		
USART3 global interrupt	unused		
QUADSPI global interrupt	unused		
LCD global interrupt	unused		
FPU global interrupt		unused	

8.3.2. NVIC Code generation

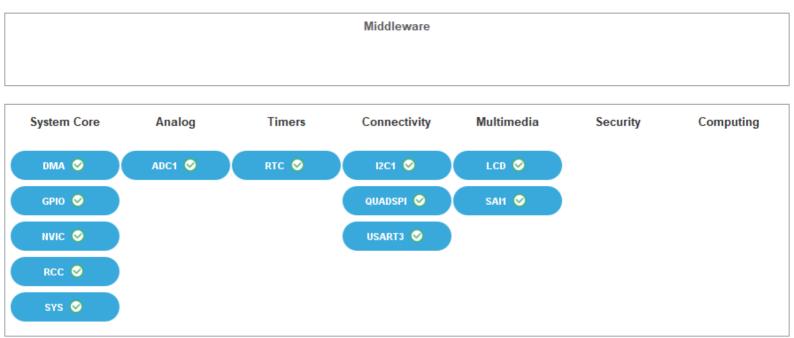
Enabled interrupt Table	Select for init sequence ordering	Generate IRQ handler	Call HAL handler
Non maskable interrupt	false	true	false
Hard fault interrupt	false	true	false
Memory management fault	false	true	false
Prefetch fault, memory access fault	false	true	false
Undefined instruction or illegal state	false	true	false
System service call via SWI instruction	false	true	false
Debug monitor	false	true	false
Pendable request for system service	false	true	false
System tick timer	false	true	true
ADC1 and ADC2 interrupts	false	true	true
DMA2 channel1 global interrupt	false	true	true

Enabled interrupt Table	Select for init	Generate IRQ	Call HAL handler
	sequence ordering	handler	
SAI1 global interrupt	false	true	true

^{*} User modified value

9. System Views

- 9.1. Category view
- 9.1.1. Current



10. Docs & Resources

Type Link

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/stm32l4_marketing-

pres.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_sc2157.pdf

Flyers https://www.st.com/resource/en/flyer/flnucleolrwan.pdf

Flyers https://www.st.com/resource/en/flyer/flstm32l4.pdf

Flyers https://www.st.com/resource/en/flyer/flstm32nucleo.pdf

Flyers https://www.st.com/resource/en/flyer/flstmcsuite.pdf

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