

1. Description

1.1. Project

Project Name	STMeteo
Board Name	custom
Generated with:	STM32CubeMX 6.13.0
Date	02/18/2025

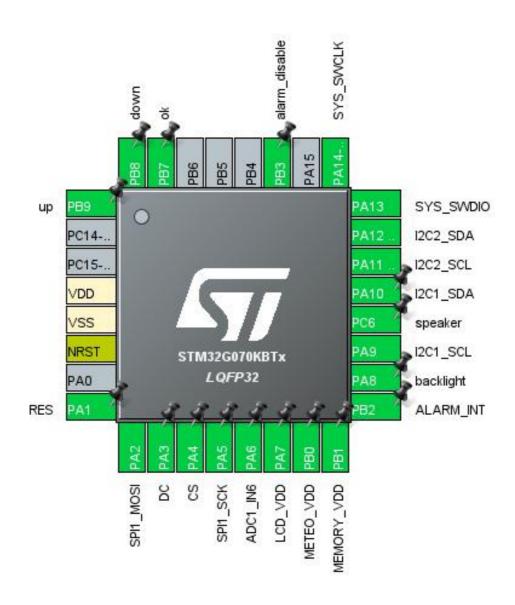
1.2. MCU

MCU Series	STM32G0
MCU Line	STM32G0x0 Value line
MCU name	STM32G070KBTx
MCU Package	LQFP32
MCU Pin number	32

1.3. Core(s) information

Core(s)	ARM Cortex-M0+

2. Pinout Configuration

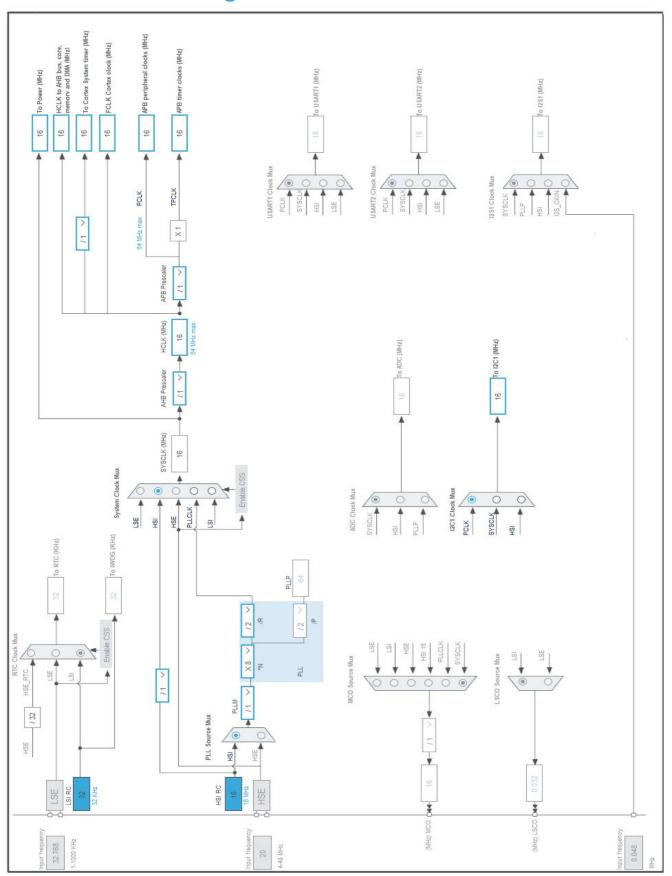


3. Pins Configuration

Pin Number LQFP32	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PB9 *	I/O	GPIO_Input	up
4	VDD	Power		
5	VSS	Power		
6	NRST	Reset		
8	PA1 *	I/O	GPIO_Output	RES
9	PA2	I/O	SPI1_MOSI	
10	PA3 *	I/O	GPIO_Output	DC
11	PA4 *	I/O	GPIO_Output	CS
12	PA5	I/O	SPI1_SCK	
13	PA6	I/O	ADC1_IN6	
14	PA7 *	I/O	GPIO_Output	LCD_VDD
15	PB0 *	I/O	GPIO_Output	METEO_VDD
16	PB1 *	I/O	GPIO_Output	MEMORY_VDD
17	PB2	I/O	GPIO_EXTI2	ALARM_INT
18	PA8	I/O	TIM1_CH1	backlight
19	PA9	I/O	I2C1_SCL	
20	PC6	I/O	TIM3_CH1	speaker
21	PA10	I/O	I2C1_SDA	
22	PA11 [PA9]	I/O	I2C2_SCL	
23	PA12 [PA10]	I/O	I2C2_SDA	
24	PA13	I/O	SYS_SWDIO	
25	PA14-BOOT0	I/O	SYS_SWCLK	
27	PB3 *	I/O	GPIO_Input	alarm_disable
31	PB7	I/O	GPIO_EXTI7	ok
32	PB8 *	I/O	GPIO_Input	down

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

4. Clock Tree Configuration



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1. Power Consumption Calculator report

1.1. Microcontroller Selection

Series	STM32G0
Line	STM32G0x0 Value line
MCU	STM32G070KBTx
Datasheet	DS12766_Rev0

1.2. Parameter Selection

Temperature	25
Vdd	3.0

1.3. Battery Selection

Battery	Li-SOCL2(AAA700)
Capacity	700.0 mAh
Self Discharge	0.08 %/month
Nominal Voltage	3.6 V
Max Cont Current	10.0 mA
Max Pulse Current	30.0 mA
Cells in series	1
Cells in parallel	1

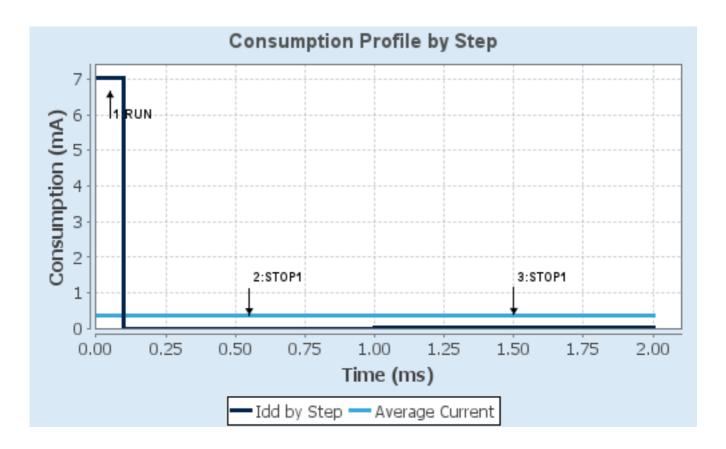
1.4. Sequence

	1	1	1
Step	Step1	Step2	Step3
Mode	RUN	STOP1	STOP1
Vdd	3.0	3.0	3.0
Voltage Source	Battery	Battery	Vbus
Range	Range1-High	NoRange	NoRange
Fetch Type	FLASH	Flash-PowerDown	FLASH
CPU Frequency	64 MHz	16 MHz	16 MHz
Clock Configuration	HSI PLL	HSI	HSI
Clock Source	16 MHz	16 MHz	16 MHz
Frequency			
Peripherals			
Additional Cons.	0 mA	0 mA	0 mA
Average Current	7.04 mA	3.74 µA	8.09 μΑ
Duration	0.1 ms	0.9 ms	1 ms
DMIPS	80.0	0.0	20.0
Ta Max	128.39	130	130
Category	In DS Table	In DS Table	In DS Table

1.5. Results

Sequence Time	2 ms	Average Current	357.73 µA
Battery Life	2 months, 21	Average DMIPS	25.454546
	days, 10 hours		DMIPS

1.6. Chart



2. Software Project

2.1. Project Settings

Name	Value
Project Name	STMeteo
Project Folder	D:\STM32Proj\STMeteo_ver_1.1
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_G0 V1.6.2
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	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

2.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	SystemClock_Config	RCC
2	MX_GPIO_Init	GPIO
3	MX_ADC1_Init	ADC1
4	MX_CRC_Init	CRC
5	MX_I2C1_Init	I2C1
6	MX_I2C2_Init	I2C2
7	MX_SPI1_Init	SPI1
8	MX_TIM1_Init	TIM1
9	MX_TIM3_Init	TIM3

STMeteo Project
Configuration Report

3. Peripherals and Middlewares Configuration

3.1. ADC1 mode: IN6

3.1.1. Parameter Settings:

ADC_Settings:

Clock Prescaler Synchronous clock mode divided by 2

Resolution ADC 12-bit resolution

Data Alignment Right alignment

Sequencer Sequencer set to fully configurable

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

Auto Off

Coversampling Mode

Enabled *

Disabled

ADC_Regular_ConversionMode:

SamplingTime Common 1 160.5 Cycles *
SamplingTime Common 2 160.5 Cycles *

Number Of Conversion

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None

Trigger Frequency High frequency

Rank 1

Channel 6

Sampling Time Sampling time common 1

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

3.2. CRC

mode: Activated

3.2.1. Parameter Settings:

Basic Parameters:

Default Polynomial State Enable Default Init Value State Enable

Advanced Parameters:

Input Data Inversion Mode None Disable Output Data Inversion Mode Input Data Format Bytes

3.3. I2C1 12C: 12C

3.3.1. Parameter Settings:

Timing configuration:

Custom Timing Disabled I2C Speed Mode Standard Mode

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

Enabled Analog Filter

Timing 0x00503D58 *

Slave Features:

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

Primary slave address

3.4. I2C2 mode: I2C

3.4.1. Parameter Settings:

Timing configuration:

Custom Timing Disabled I2C Speed Mode Standard Mode

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

Timing 0x00503D58 *

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

3.5. RCC

3.5.1. Parameter Settings:

System Parameters:

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

Flash Latency(WS) 0 WS (1 CPU cycle)

RCC Parameters:

HSI Calibration Value (64

HSE Startup Timout Value (ms) 100

LSE Startup Timout Value (ms) 5000

Power Parameters:

Power Regulator Voltage Scale Power Regulator Voltage Scale 1

Peripherals Clock Configuration:

Generate the peripherals clock configuration TRUE

3.6. SPI1

Mode: Transmit Only Master

3.6.1. 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 Enabled

NSS Signal Type Software

3.7. SYS

mode: Debug

Timebase Source: SysTick

mode: save power of non-active UCPD - deactive Dead Battery pull-up

3.8. TIM1

Channel1: PWM Generation CH1

3.8.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0
Counter Mode Up
Counter Period (AutoReload Register - 16 bits value) 1023 *
Internal Clock Division (CKD) No Division

Repetition Counter (RCR - 16 bits value) 0
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)

Trigger Event Selection TRGO2 Reset (UG bit from TIMx_EGR)

Break And Dead Time management - BRK Configuration:

BRK State Disable
BRK Polarity High
BRK Filter (4 bits value) 0

BRK Sources Configuration

- Digital Input Disable

Break And Dead Time management - BRK2 Configuration:

BRK2 State Disable
BRK2 Polarity High
BRK2 Filter (4 bits value) 0

BRK2 Sources Configuration

- Digital Input Disable

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

Clear Input:

Clear Input Source Disable

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 0

Output compare preload Enable
Fast Mode Disable
CH Polarity High
CH Idle State Reset

3.9. TIM3

Channel1: PWM Generation CH1

3.9.1. 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

16 *

We have the provided to the pro

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)

Clear Input:

Clear Input Source Disable

PWM Generation Channel 1:

Mode PWM mode 1

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

* 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	PA6	ADC1_IN6	Analog mode	No pull-up and no pull-down	n/a	
I2C1	PA9	I2C1_SCL	Alternate Function Open Drain	No pull-up and no pull-down	Very High	
	PA10	I2C1_SDA	Alternate Function Open Drain	No pull-up and no pull-down	Very High	
I2C2	PA11 [PA9]	I2C2_SCL	Alternate Function Open Drain	No pull-up and no pull-down	Very High *	
	PA12 [PA10]	I2C2_SDA	Alternate Function Open Drain	No pull-up and no pull-down	Very High	
SPI1	PA2	SPI1_MOSI	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
	PA5	SPI1_SCK	Alternate Function Push Pull	No pull-up and no pull-down	Very High	
SYS	PA13	SYS_SWDIO	n/a	n/a	n/a	
	PA14- BOOT0	SYS_SWCLK	n/a	n/a	n/a	
TIM1	PA8	TIM1_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Very High *	backlight
TIM3	PC6	TIM3_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Very High	speaker
GPIO	PB9	GPIO_Input	Input mode	Pull-up *	n/a	up
	PA1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High	RES
	PA3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High	DC
	PA4	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Very High	CS
	PA7	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	LCD_VDD
	PB0	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	METEO_VDD
	PB1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	High *	MEMORY_VDD
	PB2	GPIO_EXTI2	External Interrupt	Pull-up *	n/a	ALARM_INT
			Mode with Falling			
			edge trigger detection			

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
	PB3	GPIO_Input	Input mode	Pull-up *	n/a	alarm_disable
	PB7	GPIO_EXTI7	External Interrupt Mode with Falling edge trigger detection	Pull-up *	n/a	ok
	PB8	GPIO_Input	Input mode	Pull-up *	n/a	down

4.2. DMA configuration

nothing configured in DMA service

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	
System service call via SWI instruction	true	0	0	
Pendable request for system service	true	0	0	
System tick timer	true	1	0	
EXTI line 2 and line 3 interrupts	true	0	0	
EXTI line 4 to 15 interrupts	true	1	0	
Flash global interrupt	unused			
RCC global interrupt	unused			
ADC1 interrupt	unused			
TIM1 break, update, trigger and commutation interrupts	unused			
TIM1 capture compare interrupt	unused			
TIM3 global interrupt	unused			
I2C1 event global interrupt / I2C1 wake-up interrupt through EXTI line 23		unused		
I2C2 global interrupt	unused			
SPI1 global interrupt		unused		

4.3.2. NVIC Code generation

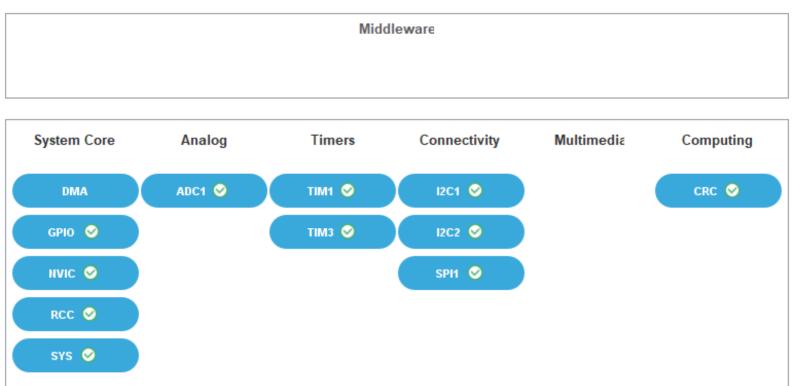
Enabled interrupt Table	Select for init	Generate IRQ	Call HAL handler
	sequence ordering	handler	
Non maskable interrupt	false	true	false
Hard fault interrupt	false	true	false
System service call via SWI instruction	false	true	false
Pendable request for system service	false	true	false
System tick timer	false	true	true
EXTI line 2 and line 3 interrupts	false	true	true
EXTI line 4 to 15 interrupts	false	true	true

* User modified value

5. System Views

5.1. Category view

5.1.1. Current



6. Docs & Resources

Type Link

IBIS models https://www.st.com/resource/en/ibis_model/stm32g0_ibis.zip

System View https://www.st.com/resource/en/svd/stm32g0-svd.zip

Description

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

stm8_embedded_software_solutions.pdf

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- microcontroller-system-memory-boot-mode-stmicroelectronics.pdf
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