1. Description

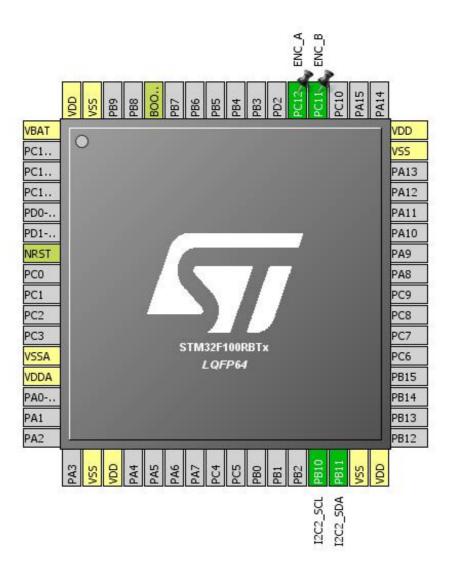
1.1. Project

Project Name	TestProject
Board Name	custom
Generated with:	STM32CubeMX 4.27.0
Date	10/31/2018

1.2. MCU

MCU Series	STM32F1
MCU Line	STM32F100 Value Line
MCU name	STM32F100RBTx
MCU Package	LQFP64
MCU Pin number	64

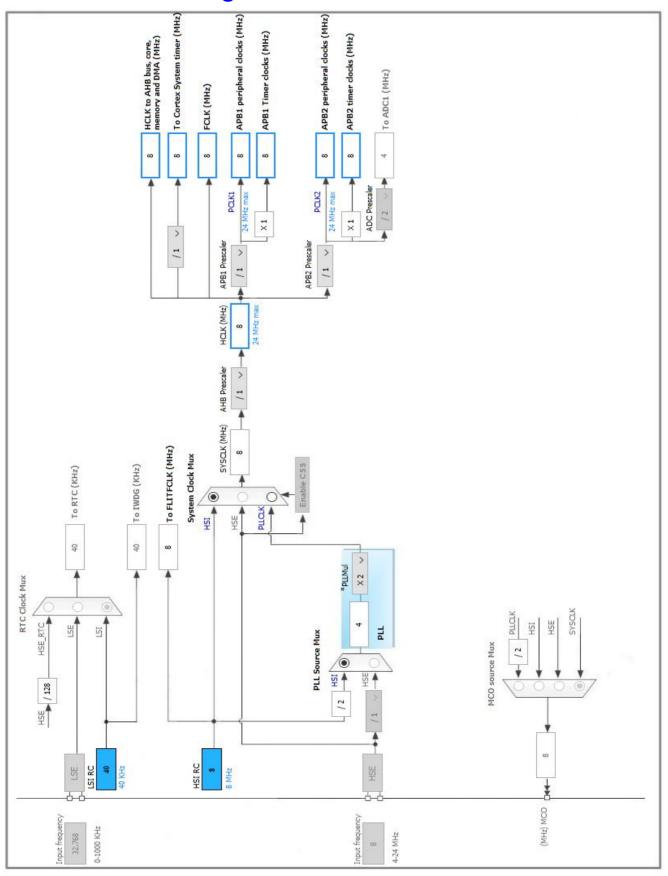
2. Pinout Configuration



3. Pins Configuration

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	VBAT	Power		
7	NRST	Reset		
12	VSSA	Power		
13	VDDA	Power		
18	VSS	Power		
19	VDD	Power		
29	PB10	I/O	I2C2_SCL	
30	PB11	I/O	I2C2_SDA	
31	VSS	Power		
32	VDD	Power		
47	VSS	Power		
48	VDD	Power		
52	PC11	I/O	GPIO_EXTI11	ENC_B
53	PC12	I/O	GPIO_EXTI12	ENC_A
60	воото	Boot		
63	VSS	Power		
64	VDD	Power		

4. Clock Tree Configuration



5. IPs and Middleware Configuration

5.1. I2C2

12C: 12C

5.1.1. 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

5.2. SYS

Debug: No Debug

Timebase Source: SysTick

^{*} User modified value

6. System Configuration

6.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
I2C2	PB10	I2C2_SCL	Alternate Function Open Drain	n/a	High *	
	PB11	I2C2_SDA	Alternate Function Open Drain	n/a	High *	
GPIO	PC11	GPIO_EXTI11	External Interrupt Mode with Rising edge trigger detection	Pull-up *	n/a	ENC_B
	PC12	GPIO_EXTI12	External Interrupt Mode with Rising edge trigger detection	Pull-up *	n/a	ENC_A

6.2. DMA configuration

nothing configured in DMA service

6.3. 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
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
PVD interrupt through EXTI line 16	unused		
Flash global interrupt	unused		
RCC global interrupt	unused		
I2C2 event interrupt	unused		
I2C2 error interrupt	unused		
EXTI line[15:10] interrupts	unused		

^{*} User modified value

7. Power Consumption Calculator report

7.1. Microcontroller Selection

Series	STM32F1
Line	STM32F100 Value Line
MCU	STM32F100RBTx
Datasheet	16455_Rev9

7.2. Parameter Selection

Temperature	25
17/00	3.3

8. Software Project

8.1. Project Settings

Name	Value	
Project Name	TestProject	
Project Folder	I:\GitHub\MotorBoard\TestbenchCode\TestProject	
Toolchain / IDE	Makefile	
Firmware Package Name and Version	STM32Cube FW_F1 V1.6.1	

8.2. Code Generation Settings

Name	Value
STM32Cube Firmware Library Package	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 consumption)	No

9.	Software	Pack	Report
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