

1. Description

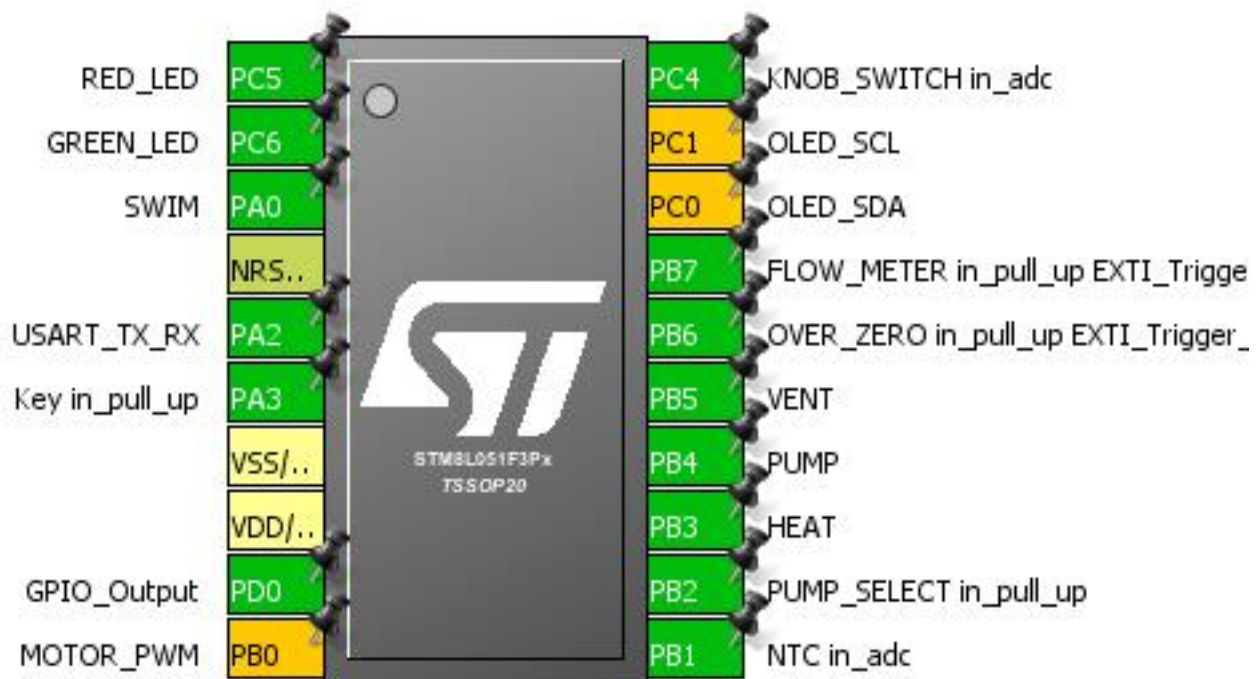
1.1. Project

Project Name	SC-1086_V202
Board Name	No information
Generated with:	STM8CubeMX 1.5.0
Date	10/08/2022

1.2. MCU

MCU Series	STM8L
MCU Line	STM8L Value Line
MCU name	STM8L051F3Px
MCU Package	TSSOP20
MCU Pin number	20

2. Pinout Configuration



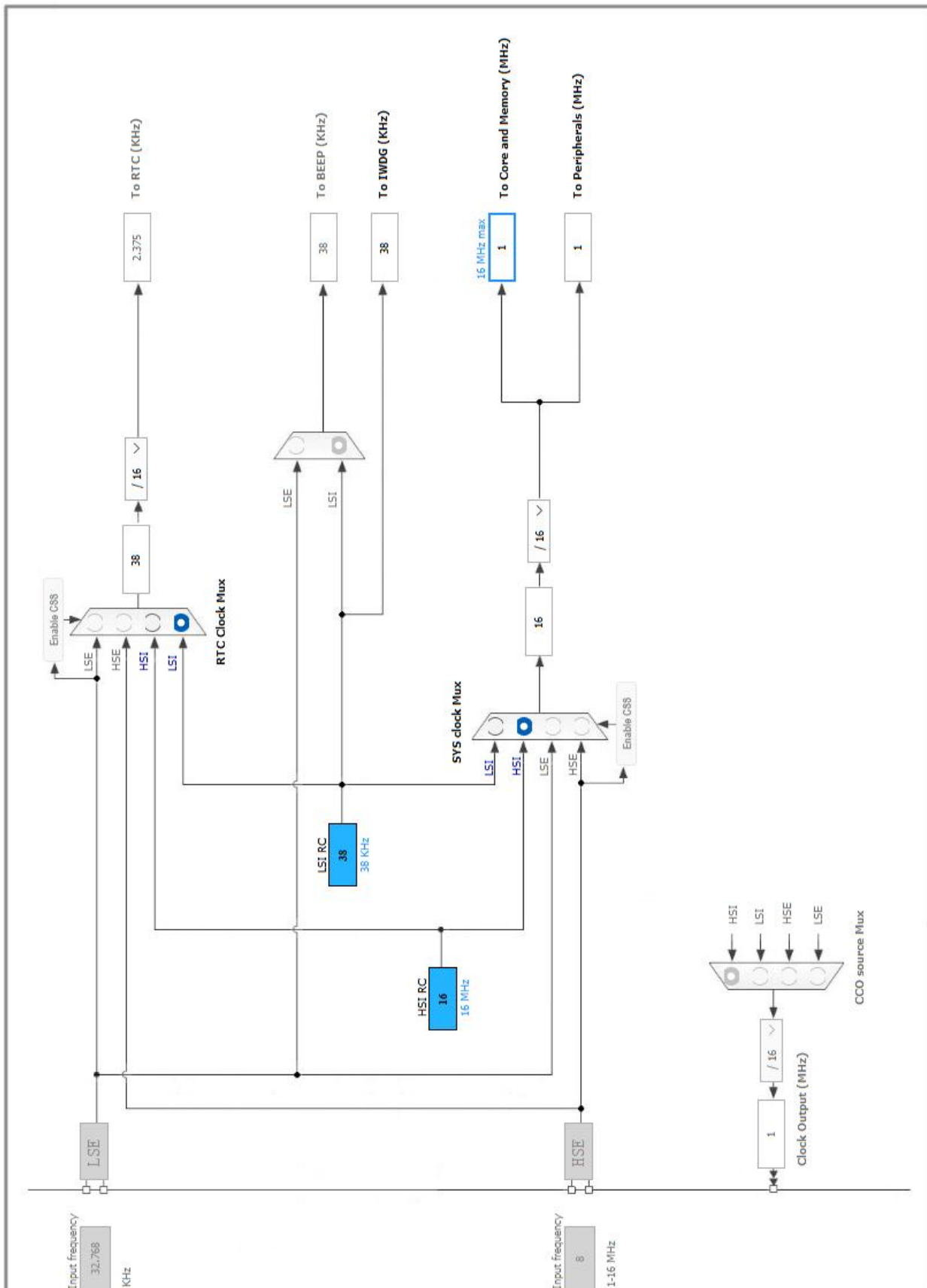
3. Pins Configuration

Pin Number TSSOP20	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PC5 *	I/O	GPIO_Output	RED_LED
2	PC6 *	I/O	GPIO_Output	GREEN_LED
3	PA0	I/O	SYS_SWIM	SWIM
4	NRST/PA1	Reset		
5	PA2	I/O	USART_TX	USART_TX_RX
6	PA3 *	I/O	GPIO_Input	Key in_pull_up
7	VSS/VREF-/VSSA	Power		
8	VDD/VDDA/VREF+	Power		
9	PD0 *	I/O	GPIO_Output	
10	PB0 **	I/O	TIM2_CH1	MOTOR_PWM
11	PB1	I/O	ADC1_IN17	NTC in_adc
12	PB2 *	I/O	GPIO_Input	PUMP_SELECT in_pull_up
13	PB3 *	I/O	GPIO_Input	HEAT
14	PB4 *	I/O	GPIO_Output	PUMP
15	PB5 *	I/O	GPIO_Output	VENT
16	PB6 *	I/O	GPIO_Input	OVER_ZERO in_pull_up EXTI_Trigger_Rising_Falling
17	PB7 *	I/O	GPIO_Input	FLOW_METER in_pull_up EXTI_Trigger_Rising
18	PC0 **	I/O	I2C_SDA	OLED_SDA
19	PC1 **	I/O	I2C_SCL	OLED_SCL
20	PC4	I/O	ADC1_IN4	KNOB_SWITCH in_adc

* 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. Power Consumption Calculator report

5.1. Microcontroller Selection

Series	STM8L
Line	STM8L Value Line
MCU	STM8L051F3Px
Datasheet	023465_Rev2

5.2. Parameter Selection

Temperature	25
Vdd	3.0