1. Description

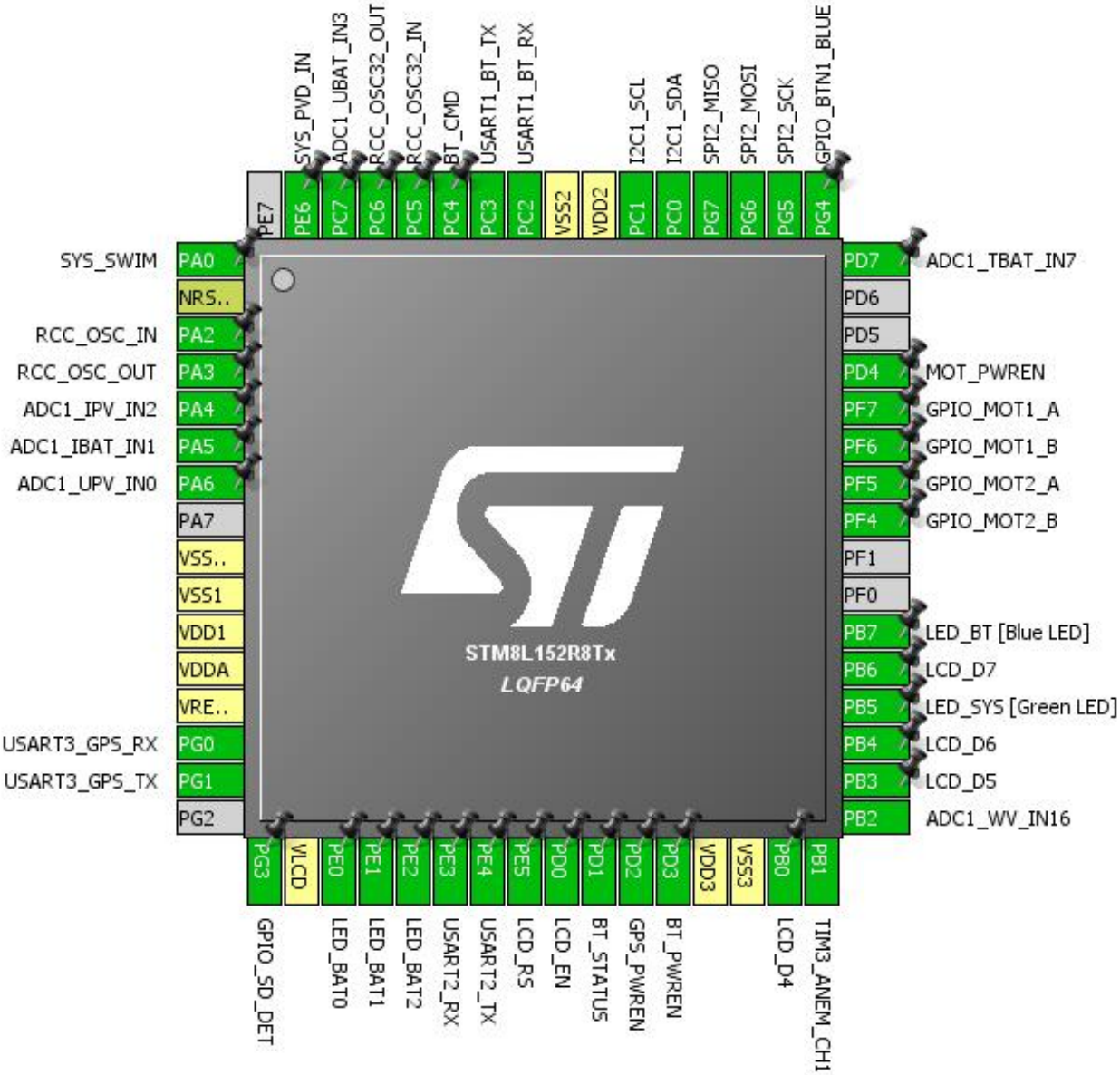
1.1. Project

Project Name	Pinbelegung
Board Name	No information
Generated with:	STM8CubeMX 1.4.0
Date	11/15/2019

1.2. MCU

MCU Series	STM8L
MCU Line	STM8L151/152
MCU name	STM8L152R8Tx
MCU Package	LQFP64
MCU Pin number	64

2. Pinout Configuration



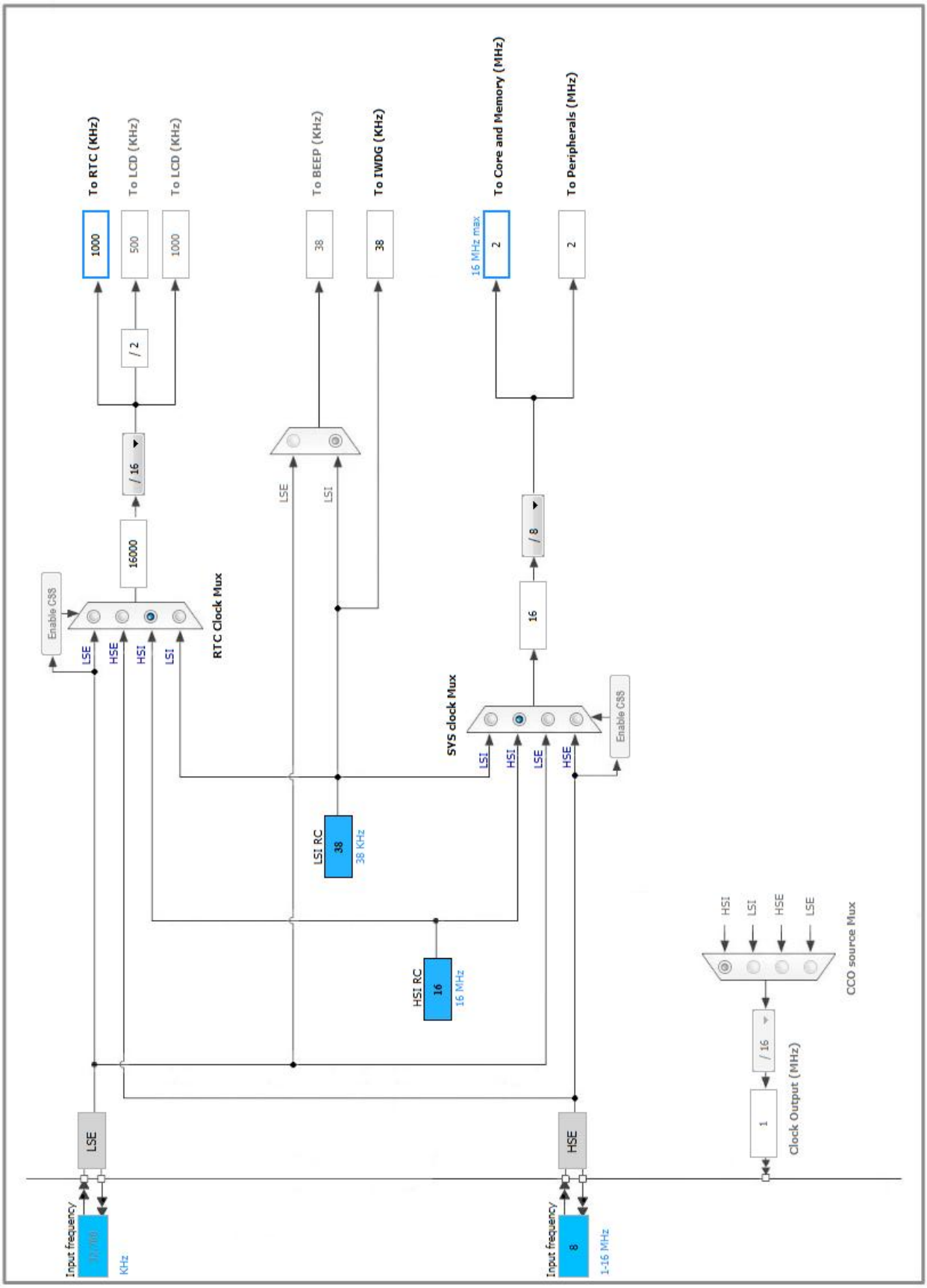
3. Pins Configuration

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PA0	I/O	SYS_SWIM	
2	NRST/PA1	Reset		
3	PA2	I/O	RCC_OSC_IN	
4	PA3	I/O	RCC_OSC_OUT	
5	PA4	I/O	ADC1_IN2	ADC1_IPV_IN2
6	PA5	I/O	ADC1_IN1	ADC1_IBAT_IN1
7	PA6	I/O	ADC1_IN0	ADC1_UPV_IN0
9	VSSA/VREF-	Power		
10	VSS1	Power		
11	VDD1	Power		
12	VDDA	Power		
13	VREF+/VREF+_DAC	Power		
14	PG0	I/O	USART3_RX	USART3_GPS_RX
15	PG1	I/O	USART3_TX	USART3_GPS_TX
17	PG3 *	I/O	GPIO_Input	GPIO_SD_DET
18	VLCD	Power		
19	PE0 *	I/O	GPIO_Output	LED_BAT0
20	PE1 *	I/O	GPIO_Output	LED_BAT1
21	PE2 *	I/O	GPIO_Output	LED_BAT2
22	PE3	I/O	USART2_RX	
23	PE4	I/O	USART2_TX	
24	PE5 *	I/O	GPIO_Output	LCD_RS
25	PD0 *	I/O	GPIO_Output	LCD_EN
26	PD1 *	I/O	GPIO_Input	BT_STATUS
27	PD2 *	I/O	GPIO_Output	GPS_PWREN
28	PD3 *	I/O	GPIO_Output	BT_PWREN
29	VDD3	Power		
30	VSS3	Power		
31	PB0 *	I/O	GPIO_Output	LCD_D4
32	PB1	I/O	TIM3_CH1	TIM3_ANEM_CH1
33	PB2	I/O	ADC1_IN16	ADC1_WV_IN16
34	PB3 *	I/O	GPIO_Output	LCD_D5
35	PB4 *	I/O	GPIO_Output	LCD_D6
36	PB5 *	I/O	GPIO_Output	LED_SYS [Green LED]
37	PB6 *	I/O	GPIO_Output	LCD_D7
38	PB7 *	I/O	GPIO_Output	LED_BT [Blue LED]

Pin Number LQFP64	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
41	PF4 *	I/O	GPIO_Output	GPIO_MOT2_B
42	PF5 *	I/O	GPIO_Output	GPIO_MOT2_A
43	PF6 *	I/O	GPIO_Output	GPIO_MOT1_B
44	PF7 *	I/O	GPIO_Output	GPIO_MOT1_A
45	PD4 *	I/O	GPIO_Input	MOT_PWREN
48	PD7	I/O	ADC1_IN7	ADC1_TBAT_IN7
49	PG4 *	I/O	GPIO_Input	GPIO_BTN1_BLUE
50	PG5	I/O	SPI2_SCK	
51	PG6	I/O	SPI2_MOSI	
52	PG7	I/O	SPI2_MISO	
53	PC0	I/O	I2C1_SDA	
54	PC1	I/O	I2C1_SCL	
55	VDD2	Power		
56	VSS2	Power		
57	PC2	I/O	USART1_RX	USART1_BT_RX
58	PC3	I/O	USART1_TX	USART1_BT_TX
59	PC4 *	I/O	GPIO_Output	BT_CMD
60	PC5	I/O	RCC_OSC32_IN	
61	PC6	I/O	RCC_OSC32_OUT	
62	PC7	I/O	ADC1_IN3	ADC1_UBAT_IN3
63	PE6	I/O	SYS_PVD_IN	

* The pin is affected with an I/O function

4. Clock Tree Configuration



5. Power Consumption Calculator report

5.1. Microcontroller Selection

Series	STM8L
Line	STM8L151/152
MCU	STM8L152R8Tx
Datasheet	17943_Rev9

5.2. Parameter Selection

Temperature	25
Vdd	3.0