1. Description

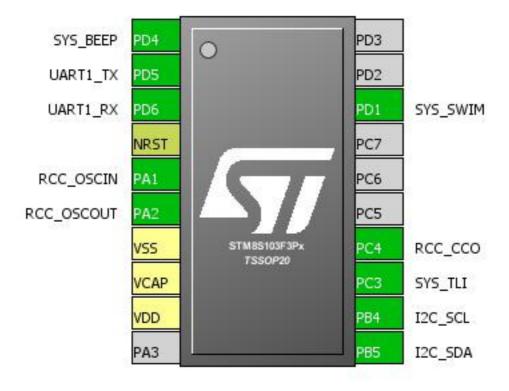
1.1. Project

Project Name	beeper
Board Name	No information
Generated with:	STM8CubeMX 1.5.0
Date	04/03/2022

1.2. MCU

MCU Series	STM8S
MCU Line	STM8S103/105
MCU name	STM8S103F3Px
MCU Package	TSSOP20
MCU Pin number	20

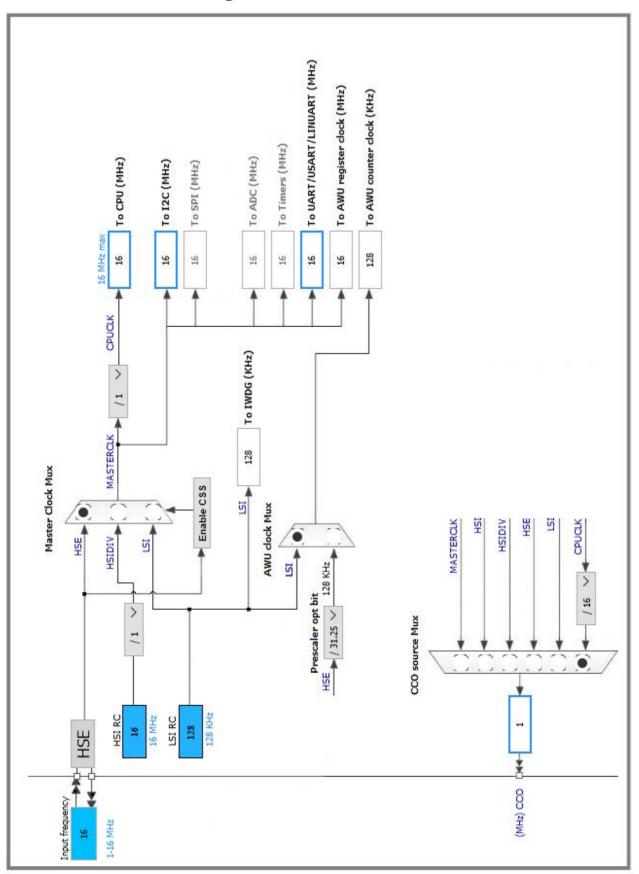
2. Pinout Configuration



3. Pins Configuration

Pin Number TSSOP20	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PD4	I/O	SYS_BEEP	
2	PD5	I/O	UART1_TX	
3	PD6	I/O	UART1_RX	
4	NRST	Reset		
5	PA1	I/O	RCC_OSCIN	
6	PA2	I/O	RCC_OSCOUT	
7	VSS	Power		
8	VCAP	Power		
9	VDD	Power		
11	PB5	I/O	I2C_SDA	
12	PB4	I/O	I2C_SCL	
13	PC3	I/O	SYS_TLI	
14	PC4	I/O	RCC_CCO	
18	PD1	I/O	SYS_SWIM	

4. Clock Tree Configuration



5. Power Consumption Calculator report

5.1. Microcontroller Selection

Series	STM8S
Line	STM8S103/105
мси	STM8S103F3Px
Datasheet	15441_Rev13

5.2. Parameter Selection

Temperature	25
Vdd	3.3

5.3. Battery Selection

Battery	Li-MnO2(CR1225)
Capacity	48.0 mAh
Self Discharge	0.12 %/month
Nominal Voltage	3.0 V
Max Cont Current	1.0 mA
Max Pulse Current	5.0 mA
Cells in series	1
Cells in parallel	1

5.4. Sequence

Step	Step1
Mode	RUN
Vdd	3.3
Voltage Source	Battery
Range	No Scale
Fetch Type	RAM

Clock Configuration	HSI
Clock Source Frequency	16.0 MHz
CPU Frequency	15.625 kHz
Peripherals	ADC I2C SPI SYS UART1
Additional Cons.	0 mA
Average Current	1.46 mA
Duration	1 ms
DMIPS	0.015625
Ta Max	104.6
Category	In DS Table

5.5. RESULTS

Sequence Time	1 ms	Average Current	1.46 mA
Battery Life	1 day, 8 hours	Average DMIPS	0.02 DMIPS

5.6. Chart

