1. Description

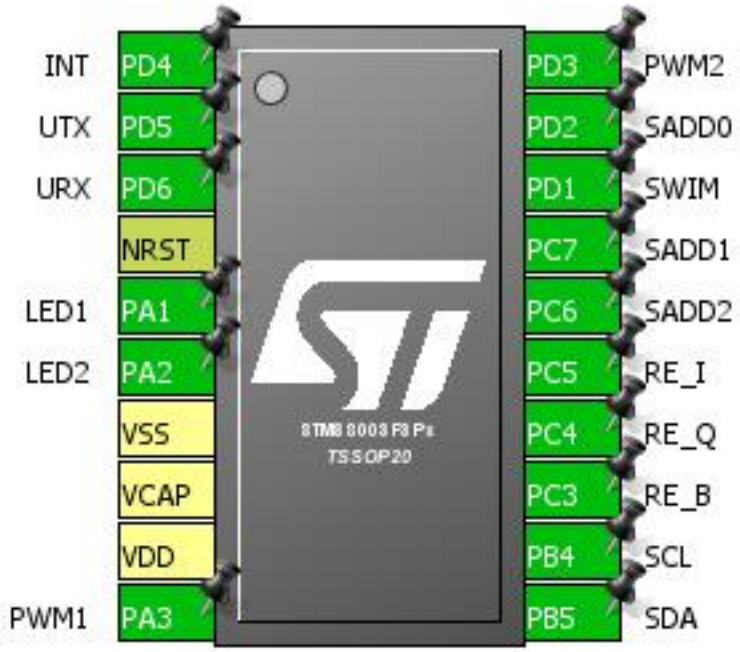
1.1. Project

Project Name	mcu
Board Name	No information
Generated with:	STM8CubeMX 1.5.0
Date	03/20/2022

1.2. MCU

MCU Series	STM8S
MCU Line	STM8S Value Line
MCU name	STM8S003F3Px
MCU Package	TSSOP20
MCU Pin number	20

2. Pinout Configuration

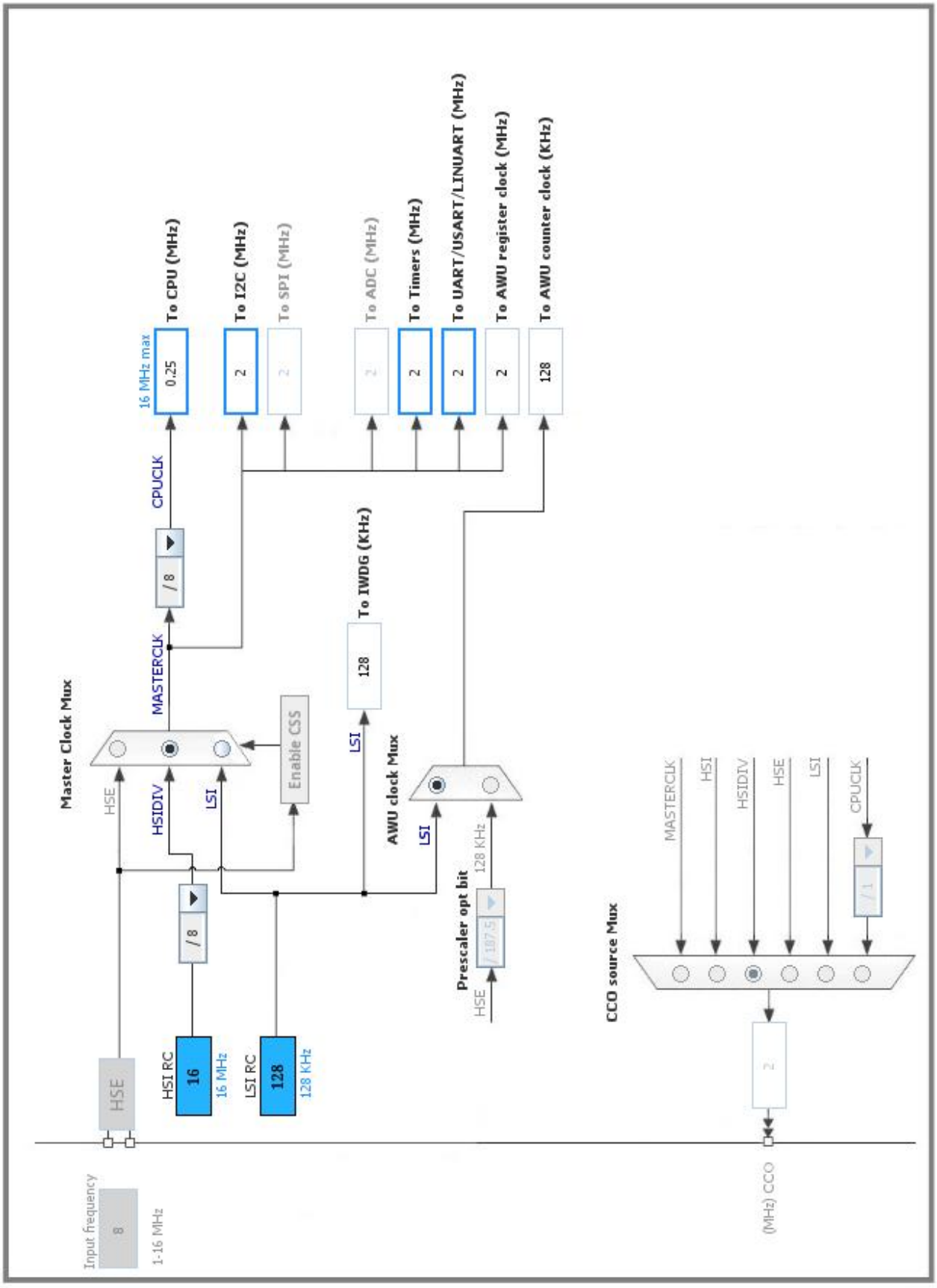


3. Pins Configuration

Pin Number TSSOP20	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PD4 *	I/O	GPIO_Input	INT
2	PD5	I/O	UART1_TX	UTX
3	PD6	I/O	UART1_RX	URX
4	NRST	Reset		
5	PA1 *	I/O	GPIO_Output	LED1
6	PA2 *	I/O	GPIO_Output	LED2
7	VSS	Power		
8	VCAP	Power		
9	VDD	Power		
10	PA3	I/O	TIM2_CH3	PWM1
11	PB5	I/O	I2C_SDA	SDA
12	PB4	I/O	I2C_SCL	SCL
13	PC3 *	I/O	GPIO_Input	RE_B
14	PC4 *	I/O	GPIO_Input	RE_Q
15	PC5 *	I/O	GPIO_Input	RE_I
16	PC6	I/O	TIM1_CH1	SADD2
17	PC7	I/O	TIM1_CH2	SADD1
18	PD1	I/O	SYS_SWIM	SWIM
19	PD2 *	I/O	GPIO_Input	SADD0
20	PD3	I/O	TIM2_CH2	PWM2

* The pin is affected with an I/O function

4. Clock Tree Configuration



5. Power Consumption Calculator report

5.1. Microcontroller Selection

Series	STM8S
Line	STM8S Value Line
MCU	STM8S003F3Px
Datasheet	18576_Rev8

5.2. Parameter Selection

Temperature	25
Vdd	3.3

5.3. 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	16.0 MHz
Peripherals	I2C SYS TIM1 TIM2 UART1
Additional Cons.	0 mA
Average Current	2.03 mA
Duration	1 ms
DMIPS	16.0
Ta Max	104.44
Category	In DS Table

5.4. RESULTS

Sequence Time	1 ms	Average Current	2.03 mA
Battery Life	0	Average DMIPS	16.0 DMIPS

5.5. Chart