1. Description

1.1. Project

Project Name	stm8-first-steps
Board Name	custom
Generated with:	STM8CubeMX 1.5.0
Date	01/03/2021

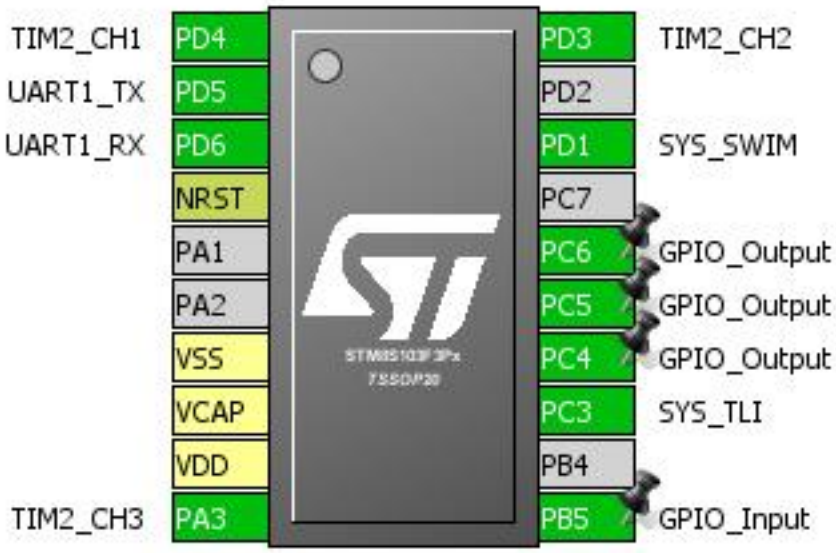
1.2. MCU

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

1.3. Caution

The report was generated although the configuration was in a modified state. It may be not accurate

2. Pinout Configuration

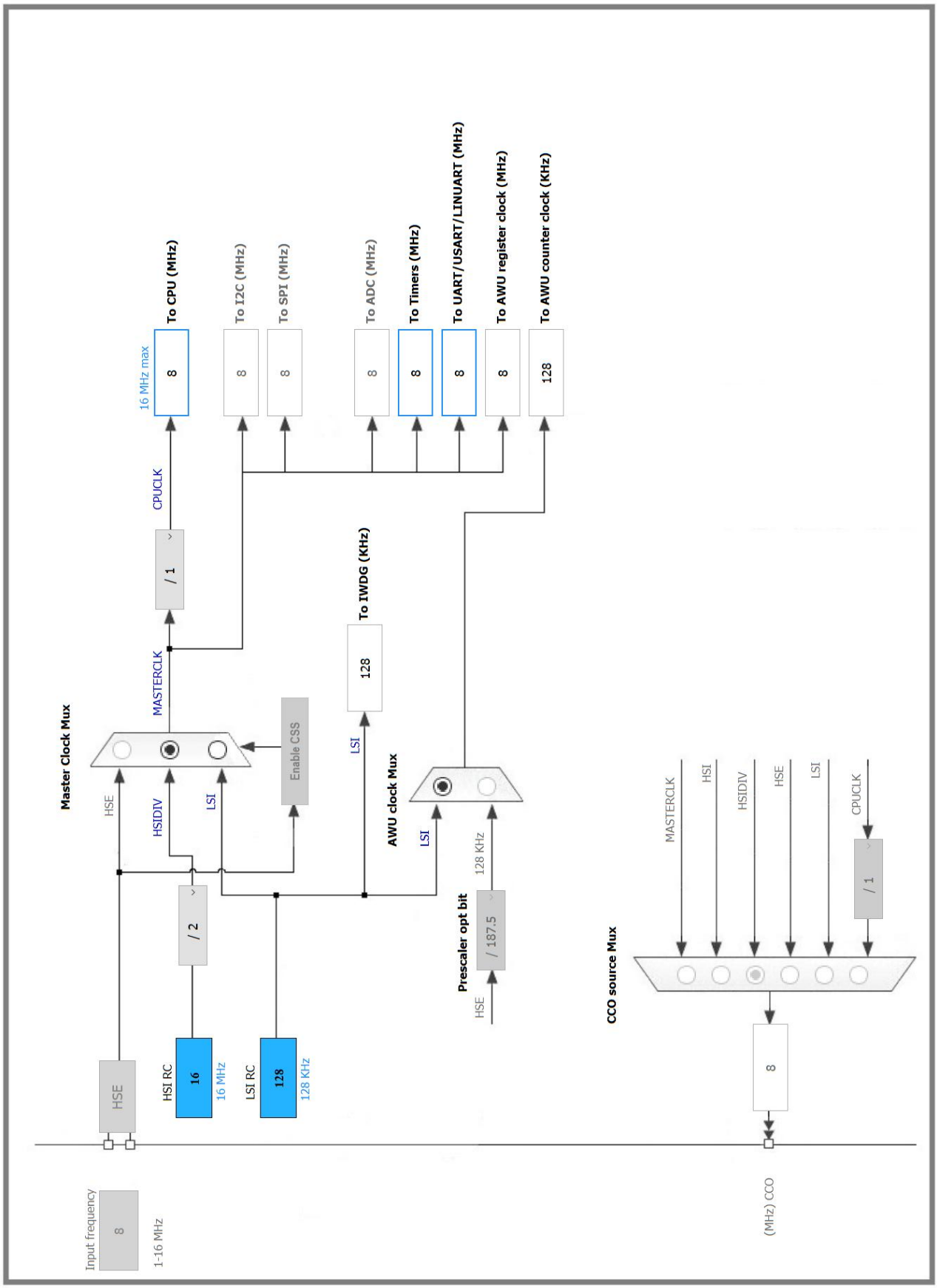


3. Pins Configuration

Pin Number TSSOP20	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PD4	I/O	TIM2_CH1	
2	PD5	I/O	UART1_TX	
3	PD6	I/O	UART1_RX	
4	NRST	Reset		
7	VSS	Power		
8	VCAP	Power		
9	VDD	Power		
10	PA3	I/O	TIM2_CH3	
11	PB5 *	I/O	GPIO_Input	
13	PC3	I/O	SYS_TLI	
14	PC4 *	I/O	GPIO_Output	
15	PC5 *	I/O	GPIO_Output	
16	PC6 *	I/O	GPIO_Output	
18	PD1	I/O	SYS_SWIM	
20	PD3	I/O	TIM2_CH2	

* 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	STM8S103/105
MCU	STM8S103F3Px
Datasheet	15441_Rev13

5.2. Parameter Selection

Temperature	25
Vdd	3.3

5.3. Battery Selection

Battery	Alkaline(9V)
Capacity	625.0 mAh
Self Discharge	0.3 %/month
Nominal Voltage	9.0 V
Max Cont Current	200.0 mA
Max Pulse Current	0.0 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	FLASH

Clock Configuration	HSI
Clock Source Frequency	16.0 MHz
CPU Frequency	16.0 MHz
Peripherals	SYS TIM2 UART1
Additional Cons.	0 mA
Average Current	3.95 mA
Duration	1 s
DMIPS	16.0
Ta Max	103.91
Category	In DS Table

5.5. RESULTS

Sequence Time	1 s	Average Current	3.95 mA
Battery Life	6 days, 14 hours	Average DMIPS	16.0 DMIPS

5.6. Chart