

## 1. Description

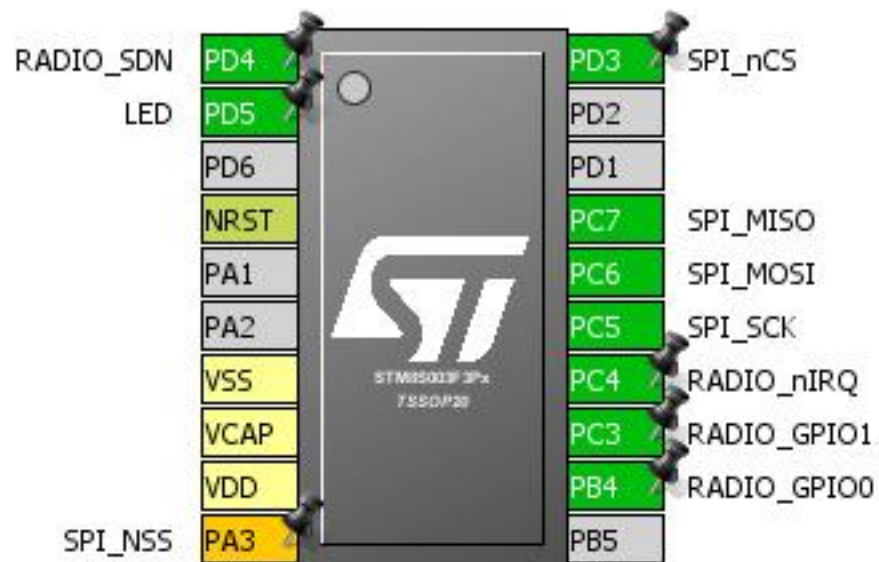
### 1.1. Project

Project Name	hc-12-rr-beacon
Board Name	No information
Generated with:	STM8CubeMX 1.5.0
Date	05/18/2022

### 1.2. MCU

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

## 2. Pinout Configuration



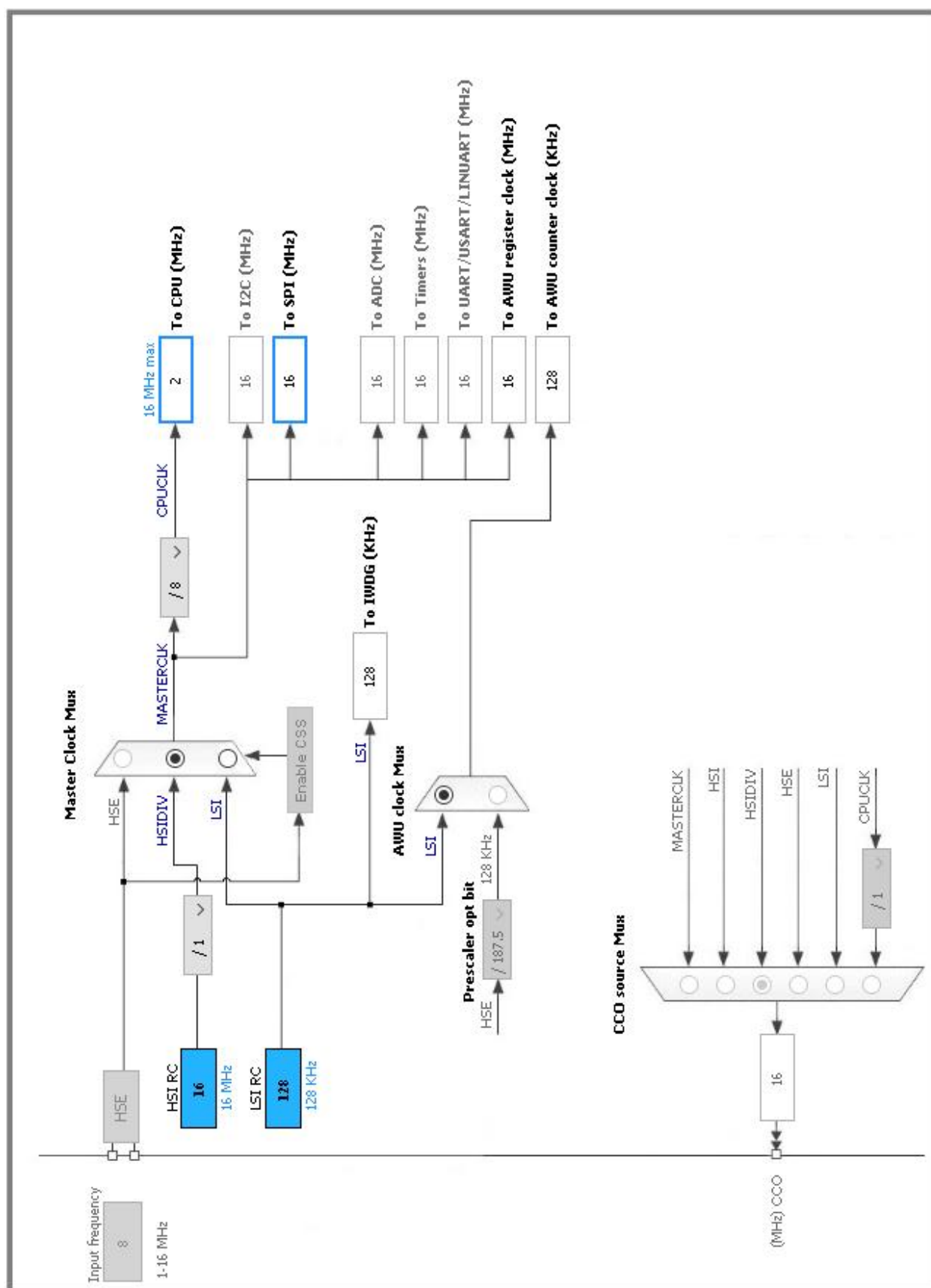
### 3. Pins Configuration

Pin Number TSSOP20	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PD4 *	I/O	GPIO_Output	RADIO_SDN
2	PD5 *	I/O	GPIO_Output	LED
4	NRST	Reset		
7	VSS	Power		
8	VCAP	Power		
9	VDD	Power		
10	PA3 **	I/O	SPI_NSS	
12	PB4 *	I/O	GPIO_Input	RADIO_GPIO0
13	PC3 *	I/O	GPIO_Input	RADIO_GPIO1
14	PC4 *	I/O	GPIO_Input	RADIO_nIRQ
15	PC5	I/O	SPI_SCK	
16	PC6	I/O	SPI_MOSI	
17	PC7	I/O	SPI_MISO	
20	PD3 *	I/O	GPIO_Output	SPI_nCS

\* 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	STM8S
Line	STM8S Value Line
MCU	STM8S003F3Px
Datasheet	18576_Rev8

### 5.2. Parameter Selection

Temperature	25
Vdd	3.3

### 5.3. Sequence

<b>Step</b>	Step1	Step2
<b>Mode</b>	RUN	WAIT
<b>Vdd</b>	3.3	3.3
<b>Voltage Source</b>	Battery	Battery
<b>Range</b>	No Scale	No Scale
<b>Fetch Type</b>	FLASH	NA
<b>Clock Configuration</b>	HSI	HSI
<b>Clock Source Frequency</b>	16.0 MHz	16.0 MHz
<b>CPU Frequency</b>	2.0 MHz	15.625 kHz
<b>Peripherals</b>	SPI TIM2	TIM2
<b>Additional Cons.</b>	20 mA	0 mA
<b>Average Current</b>	20.86 mA	450.13 $\mu$ A
<b>Duration</b>	250 ms	3 s
<b>DMIPS</b>	2.0	0.0
<b>Ta Max</b>	99.22	104.88
<b>Category</b>	In DS Table	In DS Table

### 5.4. RESULTS

Sequence Time	3.25 s	Average Current	2.02 mA
Battery Life	0	Average DMIPS	2.0 DMIPS

#### 5.5. Chart

