

1. Description

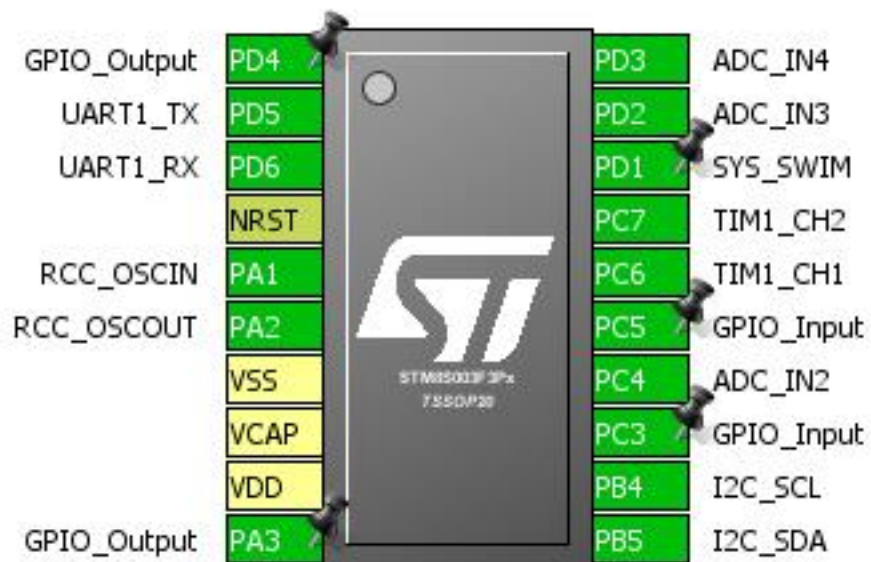
1.1. Project

Project Name	STM8 first test of cubeMX
Board Name	No information
Generated with:	STM8CubeMX 1.0.0
Date	06/03/2017

1.2. MCU

MCU Series	STM8S
MCU Line	STM8S003/005/007 Value Line
MCU name	STM8S003F3Px
MCU Package	TSSOP20
MCU Pin number	20

2. Pinout Configuration

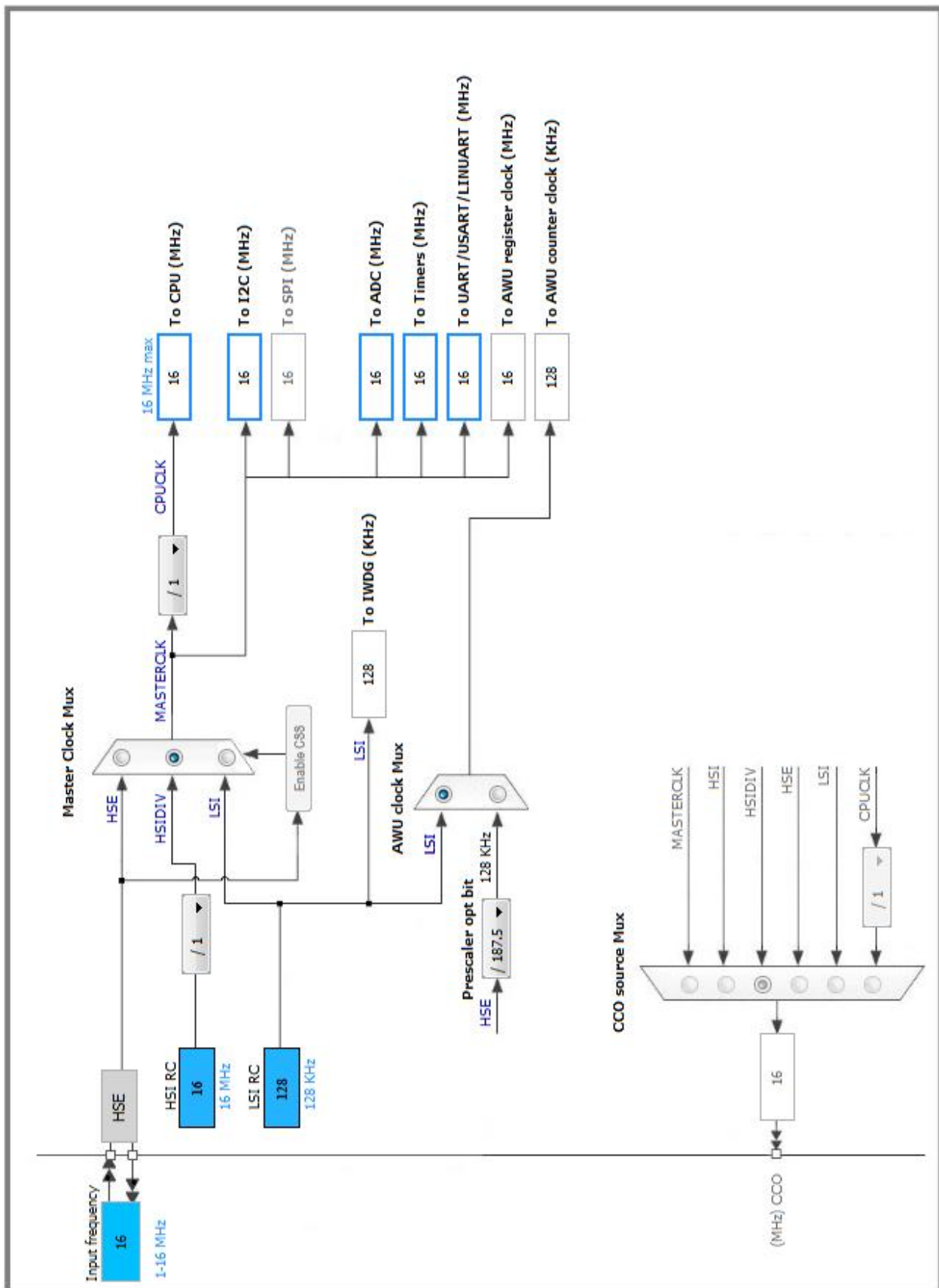


3. Pins Configuration

Pin Number TSSOP20	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PD4 *	I/O	GPIO_Output	
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		
10	PA3 *	I/O	GPIO_Output	
11	PB5	I/O	I2C_SDA	
12	PB4	I/O	I2C_SCL	
13	PC3 *	I/O	GPIO_Input	
14	PC4	I/O	ADC_IN2	
15	PC5 *	I/O	GPIO_Input	
16	PC6	I/O	TIM1_CH1	
17	PC7	I/O	TIM1_CH2	
18	PD1	I/O	SYS_SWIM	
19	PD2	I/O	ADC_IN3	
20	PD3	I/O	ADC_IN4	

* 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	STM8S003/005/007 Value Line
MCU	STM8S003F3Px
Datasheet	18576 Rev8

5.2. Parameter Selection

Temperature	25
Vdd	3.3

5.3. Battery Selection

Battery	Ni-Cd(AA1100)
Capacity	1100.0 mAh
Self Discharge	20.0 %/month
Nominal Voltage	1.2 V
Max Cont Current	220.0 mA
Max Pulse Current	0.0 mA
Cells in series	3
Cells in parallel	1

5.4. Sequence

Step	Step1	Step2	Step3	Step4
Mode	RUN	HALT	RUN	HALT
Vdd	3.3	3.3	3.3	3.3
Voltage Source	Battery	Battery	Battery	Battery
Range	No Scale	No Scale	No Scale	No Scale
Fetch Type	FLASH	NA	FLASH	NA

Clock Configuration	HSE	HSI Flash-PwrDwn	HSE	HSI Flash-PwrDwn
Clock Source Frequency	16.0 MHz	0 Hz	16.0 MHz	0 Hz
CPU Frequency	16.0 MHz	0 Hz	16.0 MHz	0 Hz
Peripherals	ADC I2C SYS TIM1 UART1		ADC I2C SYS TIM1 UART1	
Additional Cons.	0 mA	0 mA	0 mA	0 mA
Average Current	5.4 mA	4.5 μ A	5.4 mA	4.5 μ A
Duration	1 ms	30 ms	1 ms	30 ms
DMIPS	16.0	0.0	16.0	0.0
Ta Max	103.5	105	103.5	105
Category	In DS Table	In DS Table	In DS Table	In DS Table

5.5. RESULTS

Sequence Time	62 ms	Average Current	178.55 μ A
Battery Life	3 months, 4 days, 16 hours	Average DMIPS	16.0 DMIPS

5.6. Chart

