1. Description

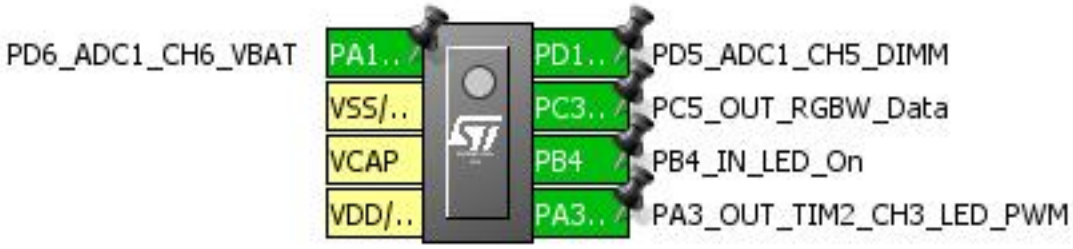
1.1. Project

Project Name	stm8s001j3_SG_micro_pinout
Board Name	No information
Generated with:	STM8CubeMX 1.5.0
Date	04/09/2021

1.2. MCU

MCU Series	STM8S
MCU Line	STM8S Value Line
MCU name	STM8S001J3Mx
MCU Package	SO8
MCU Pin number	8

2. Pinout Configuration

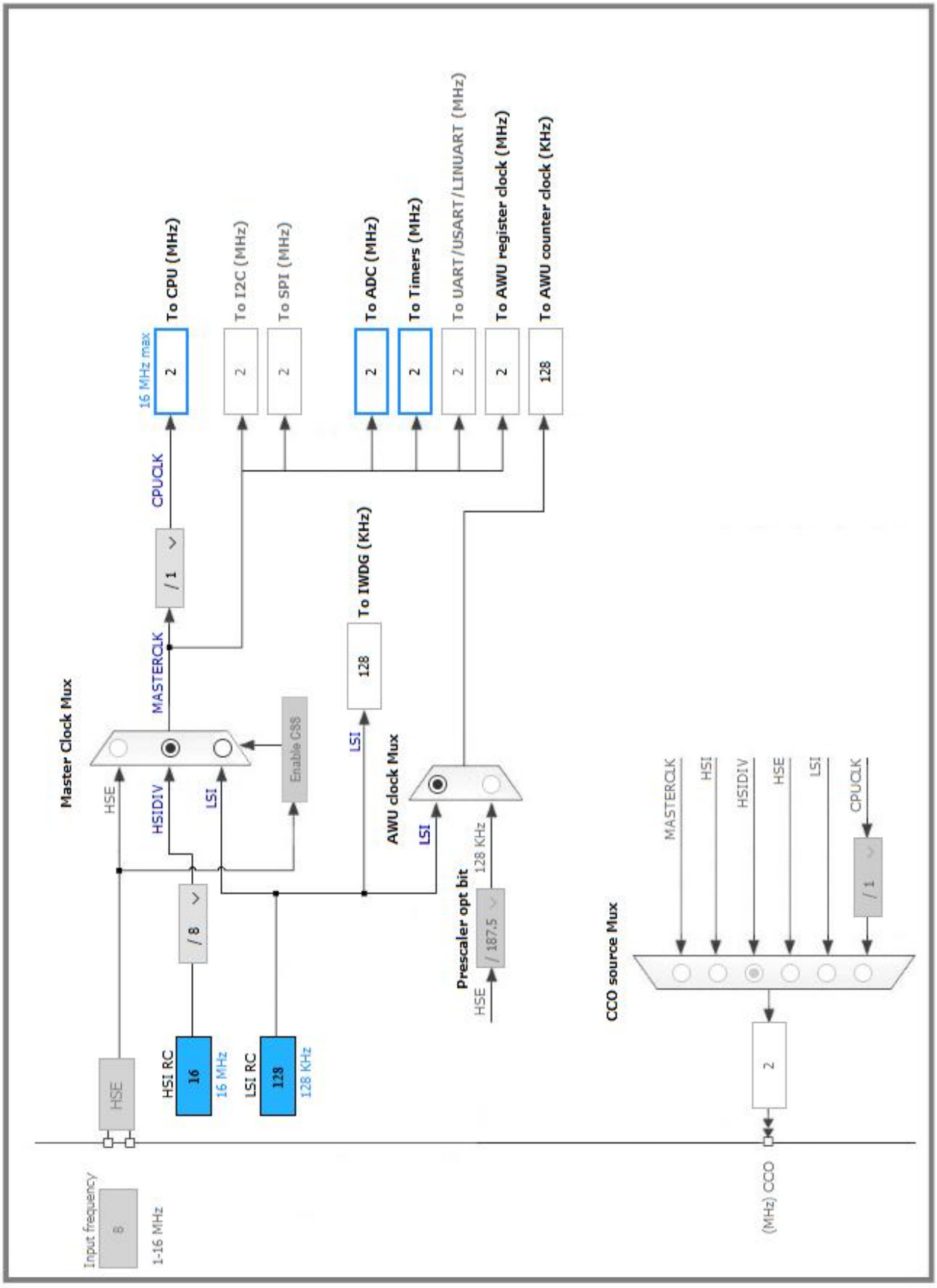


3. Pins Configuration

Pin Number SO8	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PA1xPD6	I/O	ADC_IN6	PD6_ADC1_CH6_VBAT
2	VSS/VSSA	Power		
3	VCAP	Power		
4	VDD/VDDA	Power		
5	PA3xPB5	I/O	TIM2_CH3	PA3_OUT_TIM2_CH3_LED_PWM
6	PB4 *	I/O	GPIO_Output	PB4_IN_LED_On
7	PC3xPC4xPC5 *	I/O	GPIO_Output	PC5_OUT_RGBW_Data
8	PD1xPD5xPC6xPD3	I/O	ADC_IN5	PD5_ADC1_CH5_DIMM

* 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	STM8S001J3Mx
Datasheet	030584_Rev1

5.2. Parameter Selection

Temperature	25
Vdd	5.0

5.3. Battery Selection

Battery	Li-Ion 18650 (2600)
Capacity	2600.0 mAh
Self Discharge	0.08 %/month
Nominal Voltage	3.7 V
Max Cont Current	70.0 mA
Max Pulse Current	140.0 mA
Cells in series	2
Cells in parallel	1

5.4. Sequence

Step	Step1
Mode	RUN
Vdd	5.0
Voltage Source	Battery
Range	No Scale
Fetch Type	FLASH

Clock Configuration	HSI
Clock Source Frequency	16.0 MHz
CPU Frequency	16.0 MHz
Peripherals	ADC TIM1 TIM2
Additional Cons.	0 mA
Average Current	5.04 mA
Duration	1 ms
DMIPS	16.0
Ta Max	102.43
Category	In DS Table

5.5. RESULTS

Sequence Time	1 ms	Average Current	5.04 mA
Battery Life	21 days, 11 hours	Average DMIPS	16.0 DMIPS

5.6. Chart